
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

**Amendment No. 1
to
FORM S-1
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

Tempus AI, Inc.

(Exact name of Registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

7370
(Primary Standard Industrial
Classification Code Number)

47-4903308
(I.R.S. Employer
Identification Number)

600 West Chicago Avenue, Suite 510
Chicago, Illinois 60654
(800) 976-5448

(Address, including zip code, and telephone number, including
area code, of Registrant's principal executive offices)

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Approximate date of commencement of proposed sale to the public: As soon as practicable after this registration statement is declared effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer
Non-accelerated filer

Accelerated filer
Smaller reporting company
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant will file a further amendment which specifically states that this Registration Statement will thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until the Registration Statement will become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

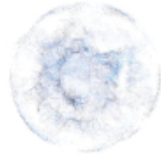
[Table of Contents](#)

The information in this preliminary prospectus is not complete and may be changed. These securities may not be sold until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell nor does it seek an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

PRELIMINARY PROSPECTUS (Subject to Completion)
Issued June 5, 2024

11,100,000 Shares

"T'EMPUS



CLASS A COMMON STOCK

This is an initial public offering of shares of Class A common stock of Tempus AI, Inc. We are offering 11,100,000 shares of our Class A common stock.

Prior to this offering, there has been no public market for our Class A common stock. It is currently estimated that the initial public offering price will be between \$35.00 and \$37.00 per share.

We have granted the underwriters the option to purchase up to an additional 1,665,000 shares of Class A common stock on the same terms as set forth above within 30 days from the date of this prospectus to cover over-allotments, if any.

Following this offering, we will have two classes of common stock: Class A common stock and Class B common stock. The rights of the holders of Class A common stock and Class B common stock are identical, except with respect to voting, conversion and transfer rights. Each share of Class A common stock is entitled to one vote. Each share of Class B common stock is entitled to 30 votes and is convertible at any time into one share of Class A common stock. In addition, all shares of Class B common stock will automatically convert into shares of Class A common stock in certain circumstances, including (i) on the date that our Chief Executive Officer, Founder and Chairman ceases to serve as an executive officer or member of our Board of Directors or (ii) on the trading day that is no less than 90 days and no more than 150 days following the date on which he ceases to own, together with his controlled entities, at least 10,000,000 shares of our capital stock (as adjusted for stock splits, stock dividends, combinations, subdivisions and recapitalizations). See the section titled "Description of Capital Stock—Class A Common Stock and Class B Common Stock." Our Chief Executive Officer, Founder and Chairman will beneficially own 100% of our outstanding Class B common stock and will beneficially own approximately 65.3% of the voting power of our outstanding capital stock immediately following this offering, assuming no exercise of the underwriters' option to purchase additional shares of Class A common stock to cover over-allotments, if any. As a result, we will be a "controlled company" within the meaning of the corporate governance rules of the Nasdaq stock market, however, we have elected not to take advantage of the controlled company exemption.

Our Class A common stock has been approved for listing on the Nasdaq Global Select Market under the symbol "TEM."

We are an "emerging growth company" as defined under the federal securities laws and, as such, we have elected to comply with certain reduced reporting requirements for this prospectus and may elect to do so in future filings.

Investing in our Class A common stock involves risks. See "[Risk Factors](#)" beginning on page 28.

	<u>Per Share</u>	<u>Total</u>
Initial public offering price	\$	\$
Underwriting discounts and commissions ⁽¹⁾	\$	\$
Proceeds, before expenses, to us	\$	\$

(1) See "Underwriting" for additional information regarding compensation payable to the underwriters.

Neither the Securities and Exchange Commission nor any other regulatory body has approved or disapproved these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The underwriters expect to deliver the shares of Class A common stock to purchasers on _____, 2024.

MORGAN STANLEY
BofA SECURITIES
STIFEL
LOOP CAPITAL MARKETS

J.P. MORGAN

ALLEN & COMPANY LLC
TD COWEN
WILLIAM BLAIR
NEEDHAM & COMPANY

Prospectus dated _____, 2024.

TABLE OF CONTENTS

	<u>Page</u>		<u>Page</u>
Prospectus Summary	1	Executive Compensation	222
Risk Factors	28	Certain Relationships and Related Party Transactions	234
Special Note Regarding Forward-Looking Statements	104	Principal Stockholders	239
Market, Industry and Other Data	106	Description of Capital Stock	243
Use of Proceeds	108	Shares Eligible for Future Sale	251
Dividend Policy	109	Material U.S. Federal Income Tax Consequences to Non-U.S. Holders	
Capitalization	110	of Our Class A Common Stock	255
Dilution	113	Underwriting	259
Management's Discussion and Analysis of Financial Condition and		Legal Matters	270
Results of Operations	117	Experts	270
Business	144	Where You Can Find Additional Information	271
Management	213	Index to Consolidated Financial Statements	F-1

Neither we nor any of the underwriters have authorized anyone to provide any information or to make any representations other than those contained in this prospectus or in any free writing prospectuses we have prepared. Neither we nor any of the underwriters take responsibility for, or can provide any assurance as to the reliability of, any other information that others may give you. We and the underwriters are offering to sell, and seeking offers to buy, shares of our Class A common stock only in jurisdictions where offers and sales are permitted. The information contained in this prospectus is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus or of any sale of our Class A common stock.

For investors outside the United States: neither we nor any of the underwriters have done anything that would permit this offering or possession or distribution of this prospectus in any jurisdiction where action for that purpose is required, other than in the United States. Persons outside of the United States who come into possession of this prospectus must inform themselves about, and observe any restrictions relating to, the offering of the shares of our Class A common stock and the distribution of this prospectus outside of the United States.

PROSPECTUS SUMMARY

This summary highlights selected information contained elsewhere in this prospectus. This summary does not contain all of the information you should consider before investing in our Class A common stock. You should read this entire prospectus carefully, including the sections titled “Risk Factors,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our consolidated financial statements and the related notes included elsewhere in this prospectus, before making an investment decision. Unless the context otherwise requires, all references in this prospectus to “Tempus,” the “company,” “we,” “our,” “us” or similar terms refer to Tempus AI, Inc. and its subsidiaries.

Overview

We endeavor to unlock the true power of precision medicine by creating Intelligent Diagnostics through the practical application of artificial intelligence, or AI, in healthcare. Intelligent Diagnostics use AI, including generative AI, to make laboratory tests more accurate, tailored, and personal. We make tests intelligent by connecting laboratory results to a patient’s own clinical data, thereby personalizing the results. Our novel insight was realizing that all laboratory test results, genomic or otherwise, could be contextualized for a specific patient based upon that patient’s unique characteristics, and technology could therefore guide therapy selection and treatment decisions to allow each patient to progress on their own unique path. The drugs recommended, the clinical trials explored, the care pathways evaluated, the adverse events considered—all have the potential to be refined and enhanced when test results are connected to a patient’s personal profile, enabling the right patient to be routed to the right therapy at the right time.

To accomplish this, we built the Tempus Platform, which comprises both a technology platform to free healthcare data from silos and an operating system to make the resulting data useful. Our proprietary technology has allowed us to amass what we consider to be one of the largest libraries of clinical and molecular oncology data in the world. Our goal is to embed AI, including generative AI, throughout every aspect of diagnostics to enable physicians and researchers to make personalized, data-driven decisions that improve patient care.

The ability to deploy AI in precision medicine at scale has only recently become possible. Advances in cloud computing, imaging technologies, large language models, and low-cost molecular profiling, along with the digitization of vast amounts of healthcare data, have created a landscape that we believe is finally ripe for AI. However, despite an increase in the availability of healthcare data, physicians and researchers are largely unable today to leverage this data to improve patient care. The vast majority of healthcare data remains disconnected and lacks harmonization and structure. Traditional diagnostic tests are typically based only on a single data modality, such as a blood- based biomarker or a genomic mutation, and do not connect and integrate other forms of relevant clinical data, such as outcomes, or adverse events, or pathology results, which are essential for many clinical decisions.

In order to bring AI to healthcare at scale, we began by rebuilding the foundation of how data flows in and out of healthcare institutions. We established data pipes, going to and from providers, to allow for the free exchange of data between physicians, who interpret data, and diagnostic and life science companies, who provide data. Without this capability, we believe that data could continue to accumulate without impacting patient care. Tempus has built this integrated Platform, and we are now deploying it at scale in the United States in oncology, and other areas, including neuropsychiatry, radiology, and cardiology, with aspirations to eventually be in all major disease areas globally. Our Platform connects multiple stakeholders within the larger healthcare ecosystem, often in near real time, to assemble and integrate the data we collect, thereby providing an opportunity for physicians to make data-driven decisions in the clinic and for researchers to discover and develop therapeutics.

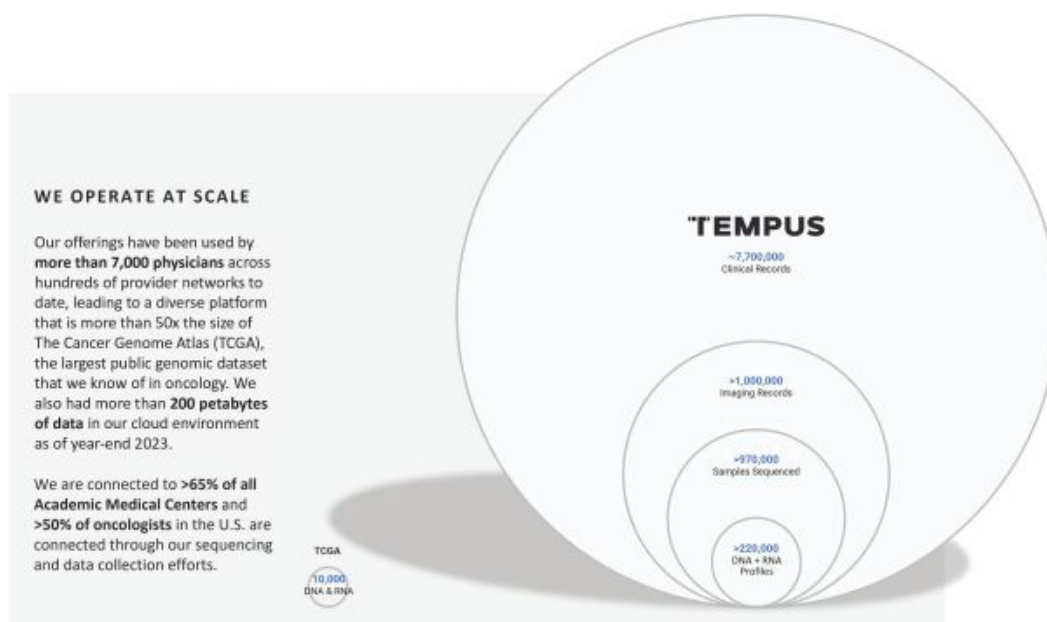
Tempus is a technology company focused on healthcare that straddles two converging worlds. We strive to combine deep healthcare expertise, providing next-generation diagnostics across multiple disease areas, with leading technology capabilities, harnessing the power of data and analytics to help personalize medicine. Unlike traditional diagnostic labs, we can incorporate unique patient information, such as clinical, molecular, and imaging data, with the goal of making our tests more intelligent and our results more insightful. Unlike other technology companies, we are deeply rooted in clinical care delivery as one of the largest sequencers of patients in the United States. Straddling both worlds is advantageous as we believe Intelligent Diagnostics represent the future of precision medicine, informing more personalized and data-driven therapy selection and development.

Our Platform includes proprietary software and dedicated data pipelines that create a network of healthcare institutions through approximately 450 unique data connections, many of which supply us with complex multimodal data in near real time, across more than 2,000 healthcare institutions that order our products and services. Healthcare institutions supply us with this data in our capacity as a covered entity (for example, when we provide Next Generation Sequencing, or NGS, services on behalf of a patient), or as a business associate (for example, when we provide clinical trial matching services or data de-identification and structuring services). In addition to the data we receive in these capacities, we currently have a limited number of paid license agreements through which we acquire de-identified data directly from healthcare associations or institutions, and in certain circumstances we cover the actual direct costs associated with the technical integrations needed to create a data connection. We then integrate this data into a unified multimodal database through which we offer numerous analytical and decision support capabilities to our customers. We establish dedicated and integrated data connections with healthcare institutions to enhance the information we provide in our clinical reports, to increase the effectiveness of our clinical trial matching services, and to enable our AI Applications product line, which we believe has the ability to transform healthcare.

We have launched a suite of different products derived from our Platform, which have gained significant traction over the past five years. To date, our offerings have been used by approximately 95% of the largest public pharmaceutical companies based on 2023 revenue, and our clinical NGS volume in oncology rose from approximately 31,000 samples in 2018 to approximately 288,000 samples in 2023. Through March 31, 2024, our offerings have been used by more than 7,000 physicians across hundreds of provider networks, including more than 65% of all academic medical centers in the United States. Our database of multimodal, de-identified records has grown to be more than 50 times the size of The Cancer Genome Atlas, the largest public genomic dataset that we know of in oncology. We also now have more than 200 petabytes of data in our cloud environment. Between our sequencing and data collection efforts, we are connected in some way to more than 50% of all oncologists practicing in the United States. Our access to broad and diverse data serves as the basis for our ability to train generative AI models, and we believe our relationships with healthcare institutions provide us with proprietary data to deliver on the promise of AI in healthcare.

We originally set out to build a sustainable business model in oncology as our first proof of concept. To date, we have focused primarily on establishing and growing our oncology business, which represents the majority of both the data we have amassed and our revenue. Even though our cancer business was at an early stage, we next expanded into neuropsychiatry, as we believed our model was extensible across disease areas. Having gained early traction in depression, we then expanded into the radiology and cardiology categories. Each time we enter a new disease area we look to expand upon the model we deployed in oncology by developing Intelligent Diagnostics connected to clinical data, and by leveraging large amounts of de-identified data to advance patient care and accelerate drug discovery and development. Once we obtain sufficient data, which we can leverage as a proprietary training data set for generative AI applications, we expect to deploy our AI and machine learning capabilities to build algorithmic diagnostics at scale across diseases.

To manage our growth, we have assembled a world-class team of approximately 2,300 employees, including hundreds with diverse expertise across genetics, molecular and computational biology, bioinformatics, regulatory affairs, medical, product and engineering, and data science. Roughly one-third of our team is technical, with approximately 250 PhDs and MDs on staff.

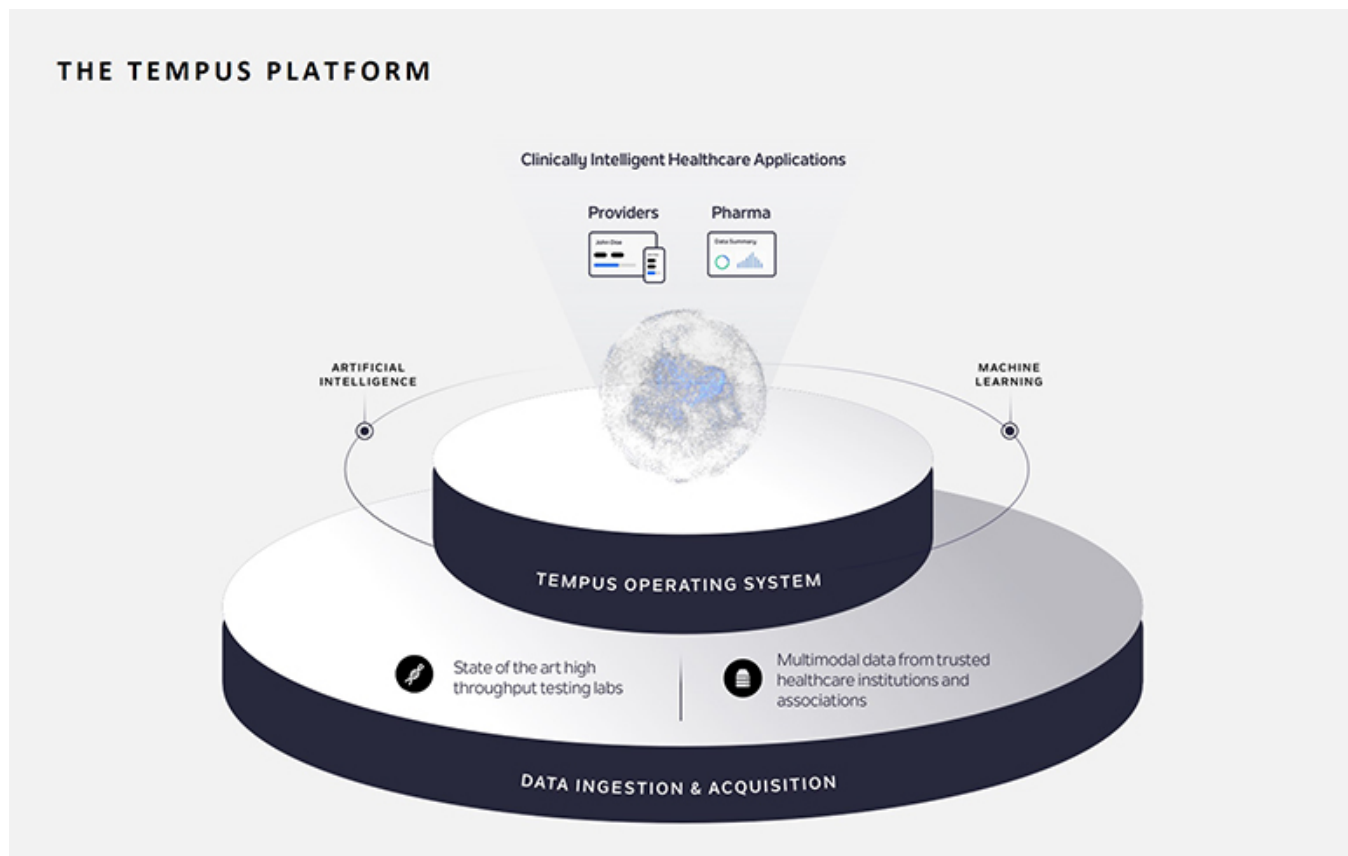


We generated total revenue of \$188.0 million, \$257.9 million, \$320.7 million and \$531.8 million in the years ended December 31, 2020, 2021, 2022 and 2023, respectively, and \$115.6 million and \$145.8 million in the three months ended March 31, 2023 and 2024, respectively. Revenue generated from COVID-19 testing was \$89.5 million, or 47.6% of our total revenue, \$94.7 million, or 36.7% of our total revenue, \$22.2 million, or 6.9% of our total revenue, and \$2.7 million, or 0.5% of our total revenue for the years ended December 31, 2020, 2021, 2022 and 2023, respectively. Revenue generated from COVID-19 testing was \$2.6 million, or 2.3% of our total revenue, and \$0 for the three months ended March 31, 2023 and 2024, respectively. We stopped offering COVID-19 PCR diagnostic tests in the first quarter of 2023. We incurred net losses of \$289.8 million and \$214.1 million in the years ended December 31, 2022 and 2023, respectively, and \$54.4 million and \$64.7 million in the three months ended March 31, 2023 and 2024, respectively. We generated adjusted EBITDA of \$(238.8) million and \$(154.2) million in the years ended December 31, 2022 and 2023, respectively, and \$(45.9) million and \$(43.9) million in the three months ended March 31, 2023 and 2024, respectively. Adjusted EBITDA is a non-GAAP financial measure. For a reconciliation of adjusted EBITDA to net loss, the most directly comparable financial measure stated in accordance with generally accepted accounting principles in the United States of America, or GAAP, and for additional information about adjusted EBITDA, see the section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Non-GAAP Financial Measure” in this prospectus.

The Tempus Platform

The Tempus Platform combines multiple elements into a vertically integrated infrastructure that enables us to ingest data from providers, structure and harmonize the data into a common database, provide laboratory diagnostic testing, and deliver personalized results that provide clinical context by leveraging our data. We offer

closed-loop, full-stack, bi-directional integrations between a clinician’s desktop and our laboratory diagnostic capabilities, analytics platform, and vast repository of multimodal data. The key elements of our Platform, represented in the diagram below, collectively help power a variety of healthcare applications for providers and life sciences researchers. We believe each of these elements is difficult for competitors to replicate, and together represent a significant competitive advantage.



Data Ingestion and Acquisition

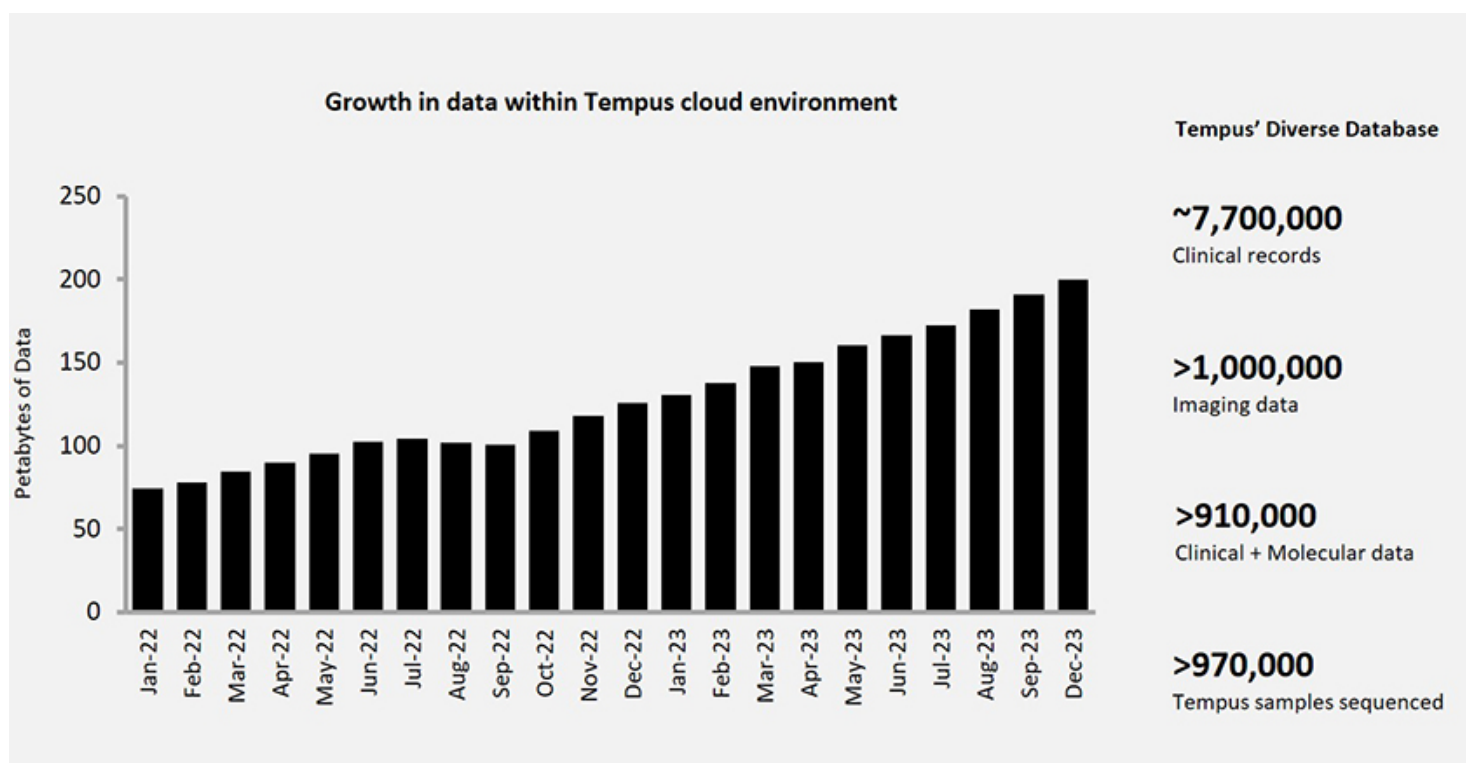
We ingest healthcare data in near real time and at scale, including molecular, clinical, and imaging data. We developed the software infrastructure and dedicated data pipelines to aggregate large amounts of multimodal data directly from healthcare institutions. Our software connects to a provider’s electronic health record, or EHR, system, data warehouse, or third-party data provider to pull relevant structured and unstructured data that the provider has agreed to make available to us, or which is necessary to provide our diagnostic tests, including longitudinal follow-up data in certain circumstances. We have established relationships with hundreds of provider networks in the United States, including more than 65% of all academic medical centers. In addition to healthcare providers, we work with numerous industry associations, including the American Society of Clinical Oncology, or ASCO, to structure and distribute the cancer data that they collect as part of CancerLinQ, which is their oncology data effort, as well as ONCare Alliance, LLC (surviving entity after merger of the National Cancer Care Alliance and the Quality Cancer Care Alliance), or ONCare Alliance, and others. We also generate data in our three high-throughput diagnostic testing labs in Chicago, Atlanta, and Raleigh.

Proprietary Data Processing

Once we ingest data, we deploy proprietary clinical data abstraction tools, including natural language processing, optical character recognition, and our abstraction software, to structure, harmonize, and de-identify the data we collect. We have developed various software tools, including algorithmic agents that leverage large language models, to streamline and help secure this process. Once appropriately de-identified, we store the data in our multimodal database.

Our Proprietary Multimodal Database

We believe most healthcare databases lack real-time functionality, depth among data types, and the scale of matched clinical and molecular records needed to meaningfully improve therapeutic research and development. Tempus is attempting to solve this problem by democratizing the use of near real-time molecular, clinical and imaging data by embedding our solution into the clinical care of patients. As our testing volume has grown, and as our dedicated data pipelines have expanded, the size of our database has increased exponentially. Since we launched our Platform in 2016, Tempus has amassed over 900 million documents, across more than 5.6 million de-identified patient records, including approximately 1.3 billion pages of rich clinical text that we use to train our large language models. The database also includes over 1,000,000 records with imaging data, more than 900,000 with matched clinical records linked with genomic information, and more than 220,000 with full transcriptomic profiles. Within oncology specifically, we believe this represents one of the largest and most comprehensive molecular libraries of cancer patients in the world. The breadth of our database, the quality and diversity of our data, as well as its regularly updating nature, allow us to offer a variety of AI-enabled solutions to the market. We believe our unique data set enables us to bring the benefits of generative AI and large language models to healthcare, as our curated, multimodal database can be used as a proprietary training set to build a variety of AI-based applications, which we intend to deploy through our existing network and distribution platform. We also retain the rights to broadly commercialize de-identified data. As the amount of data in our cloud environment continues to grow from its current size of more than 200 petabytes, we believe new AI applications and opportunities will emerge that are only possible with scale, driving further innovations in patient treatment. The graph below shows our historical database growth and its composition as of December 31, 2023:



Proprietary Software Tools and Solutions

We have developed numerous software tools that power our Platform, making our services accessible to multiple constituencies within the healthcare ecosystem and creating a back-end infrastructure that supports our various product lines. We employ AI techniques including neural networks, deep learning, large language models, and other statistical learning techniques to generate patient-specific insights. We are able to not only train and validate some of these AI models for research use, but we can also develop them into clinical-grade algorithmic tests, or Algos, and deploy them clinically as part of routine care. As our data advantage and system architecture continue to improve, we believe our existing Intelligent Diagnostics will gain further adoption thereby accelerating our ability to deploy technologies, including AI Applications, in the clinical setting.

Our Three Product Lines

We have developed multiple products derived from our Platform that are designed to create an economic model that allows us to invest in structuring and harmonizing data, which is a necessary precursor for deploying AI at scale.

Our products are organized under three product lines, each of which is designed to enable and enhance the others, thereby creating network effects in each of the markets in which we operate. We started in Genomics by generating large amounts of molecular data, which in turn gave rise to our Data and Services business through which we licensed de-identified data, which at scale has allowed us to provide a series of data-related services to our life sciences customers, such as clinical trial matching, or Trials. Over time, we expect these products (Genomics + Data and Services) to facilitate deployment of our AI Applications, or Algos, product line through which we will leverage AI models to help route patients to the optimal therapy and advance research more broadly. Our business model allows both Tempus and our customers to unlock value from the data we make available in different ways across our different product lines. We believe these network effects provide a unique advantage to our business, as the compounding value of each data record in our database serves to enhance our competitive advantage. The more data we collect, the smarter our tests become, the more applications we can launch, the more physicians join our network, further growing our database, making our tests smarter for clinicians and our database more valuable for researchers.

We describe below our three product lines—Genomics, Data and Services, and AI Applications. Genomics revenue was \$151.9 million, \$195.0 million, \$198.0 million and \$363.0 million for the years ended December 31, 2020, 2021, 2022 and 2023, respectively, and \$82.1 million and \$102.6 million for the three months ended March 31, 2023 and 2024, respectively. Data revenue was \$36.1 million, \$62.8 million, \$122.7 million and \$168.8 million for the years ended December 31, 2020, 2021, 2022 and 2023, respectively, and \$33.6 million and \$43.3 million for the three months ended March 31, 2023 and 2024, respectively. For the years ended December 31, 2020, 2021, 2022 and 2023, Genomics represented 81%, 76%, 62% and 68%, respectively, and Data represented 19%, 24%, 38% and 32%, respectively, of our total revenue. Revenue generated from AI Applications is reported within Data and services in our Consolidated Statement of Operations and was \$1.4 million and \$5.5 million for the years ended December 31, 2022 and 2023, respectively. Revenue generated from AI Applications was less than \$1.0 million for each of the three months ended March 31, 2023 and 2024.

Genomics

Our Genomics product line leverages our laboratories to provide NGS diagnostics, molecular genotyping, and other anatomic and molecular pathology testing to healthcare providers, life sciences companies, researchers, and other third parties. We operate robotic sequencing labs in Chicago, Atlanta, and Raleigh, with automated bioinformatics and variant classification and reporting that allow us to operate as a high-quality, low-cost NGS provider that broadly serves the market. Our labs are certified by the Clinical Laboratory Improvement Amendments, or CLIA, and accredited by the College of American Pathologists, or CAP. However, unlike other laboratory diagnostic testing providers, many of our tests are connected to clinical data in some manner, which allows our suite of tests to be self-learning, becoming more accurate and precise with each new test that we run. Our current primary assays include:

- xT – 648 gene solid tumor cancer assay;
- xR – full transcriptome (RNA) solid tumor cancer assay;
- xT-cdx – 648 gene, tumor/normal FDA approved assay;
- xE – whole exome cancer assay;
- xF – 105 gene liquid biopsy cancer assay;
- xG – 52 gene inherited cancer risk germline assay;
- nP – pharmacogenomics profiling in neuropsychiatry;
- xF+ – expanded 523 gene panel covering additional fusions and copy number variants, or CNVs, as well as blood tumor mutational burden, or bTMB, and microsatellite instability high, or MSI-H;
- xG+ – 88 gene panel covering genes associated with both common and rare hereditary cancers; and
- xM - high coverage methylation sequencing assay for minimal residual disease detection launched in June 2024 initially covering colorectal cancer with the potential to expand into both other indications and treatment response monitoring.

In addition, on June 1, 2024, pursuant to our Commercialization and Reference Laboratory Agreement with Personalis, Inc., we made available for clinical ordering NeXT Personal Dx, an ultra sensitive, whole genome minimal residual disease and monitoring assay for non-small cell lung cancer, breast cancer, and immuno-oncology treatment response monitoring.

As we have continued to expand our laboratory testing offerings and scale, in addition to increasing reimbursement for our tests, we have achieved continued improved margins. Genomics margin, adjusted for the impact of COVID-19 testing, was (21%), 4%, 25%, 48%, 45% and 48% for the years ended December 31, 2020, 2021, 2022 and 2023 and the three months ended March 31, 2023 and 2024, respectively.

Our cancer tests have gained wide market adoption and allowed us to amass what we consider to be one of the largest de-identified clinical and molecular oncology datasets in the world, which we make available to physicians and life sciences companies. Because our Platform is designed to be extensible across disease areas, we hope, over time, to have similar success in neuropsychiatry, cardiology, and the other disease categories in which we choose to expand.

Data and Services

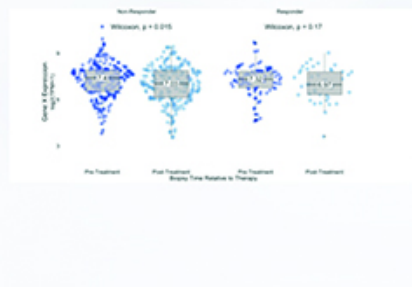
Our Data and Services product line facilitates drug discovery and development for life sciences companies through two primary products, Insights and Trials. Through our Insights product, we license libraries of linked clinical, molecular, and imaging de-identified data and provide a suite of analytic and cloud-and-compute tools to pharmaceutical and biotechnology companies. Historically, datasets in healthcare have been siloed, often lacking important contextual information such as outcome and treatment response data. Our Insights offering is designed to address this void across multiple diseases, enabling pharmaceutical and biotechnology companies to improve decision-making across the drug lifecycle—from discovery, research and development, and, ultimately, commercialization.

Our customers are utilizing our data for all stages of drug discovery and development

The use of real-world data in R&D can assist companies at every stage of the drug development cycle, from discovery to development to clinical trial design, which can enable faster go to market ¹

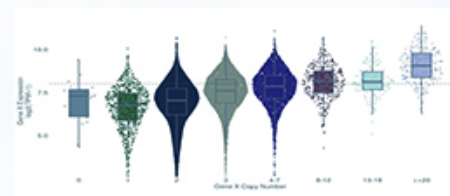
PRECLINICAL DISCOVERY

- Uncover new targets
- Identify clinical, genomic and transcriptomic biomarkers of therapy resistance
- Determine areas of unmet medical need
- Prioritize targeted indications



TARGET POPULATION OPTIMIZATION

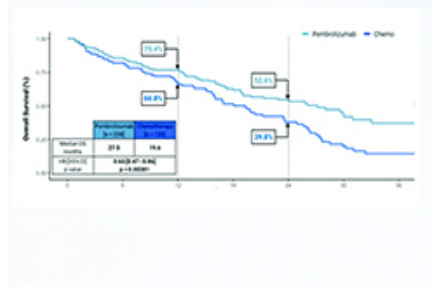
- Refine inclusion/exclusion criteria
- Determine impact of prior therapies on subsequent outcomes
- Determine biomarker/agnostic approach and CDx strategy



Comparison of biomarker gene copy number vs. gene expression. Incorporating expression analysis identified potential candidates for therapy not captured by genomic CDx.

CLINICAL TRIAL DESIGN

- Better predict expected performance of control arm
- Optimize design with patient stratification factors and pre-specified endpoints
- Increase PTRS and confidence in study outcomes



¹ Illustrative examples; does not reflect actual or anticipated results

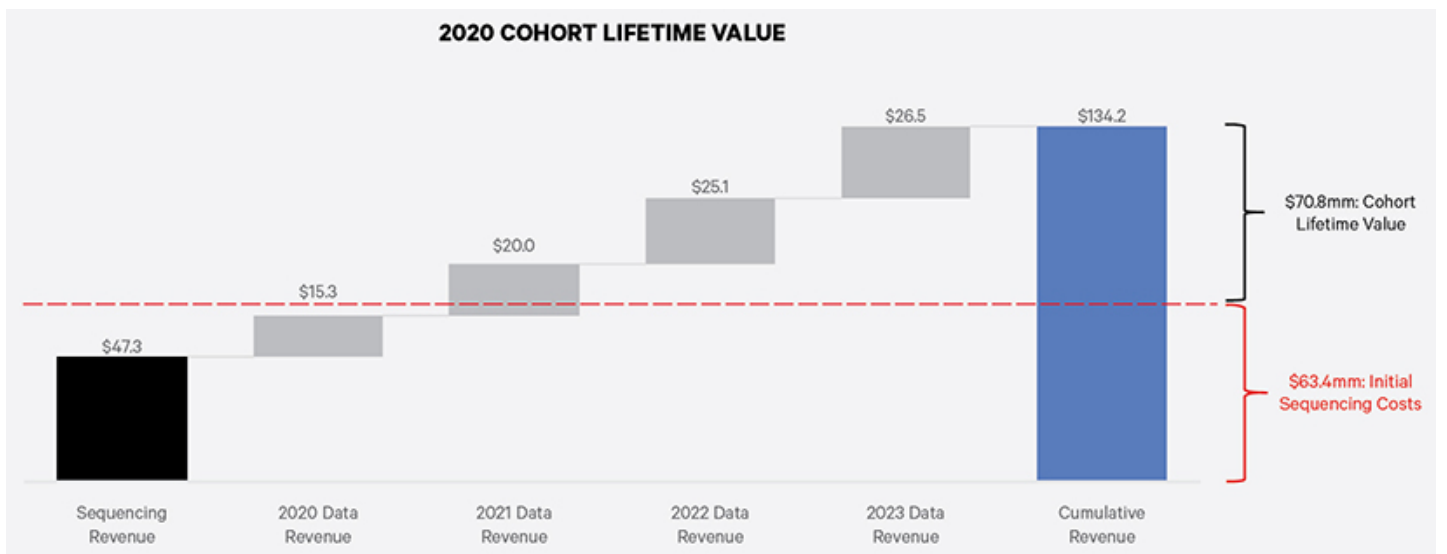
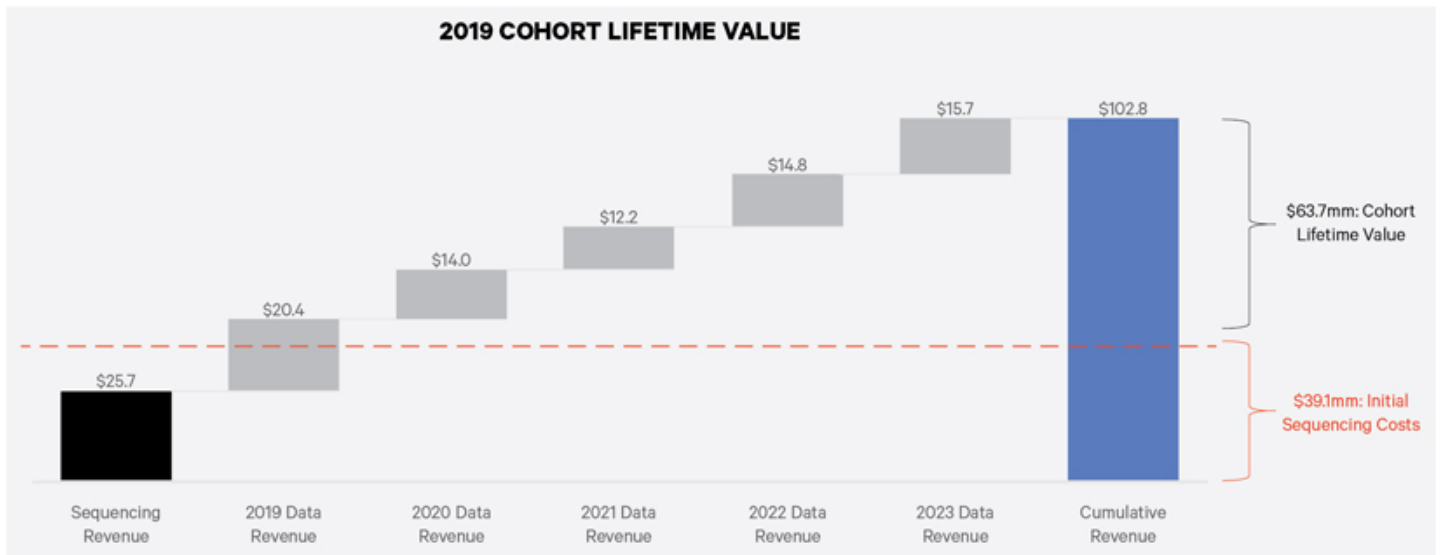
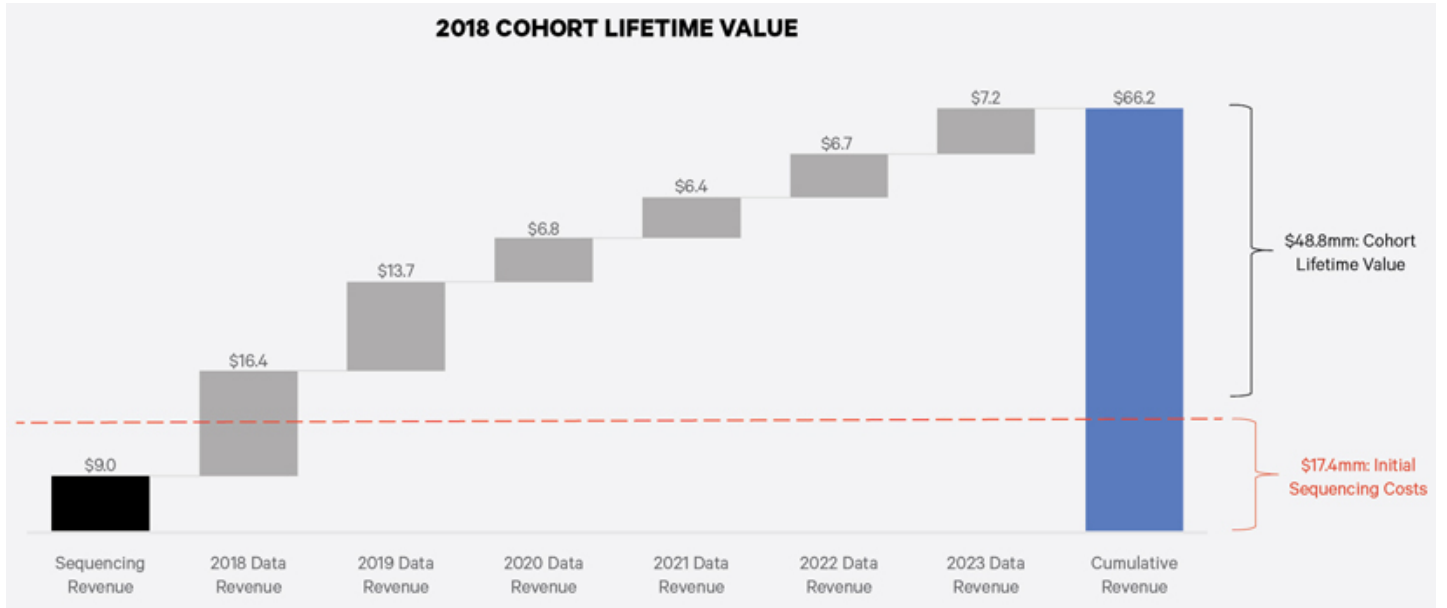
Customers either pay us on a per file basis or through multi-year data licensing agreements to access our de-identified database of clinical records. We work with 19 of the 20 largest public pharmaceutical companies based on 2023 revenue, and as of December 31, 2023, we have signed contracts with a remaining total contract value of more than \$920.0 million, which includes approximately \$300.0 million in additional potential future contractual opt-ins. See “Business” for additional discussion regarding our remaining total contract value.

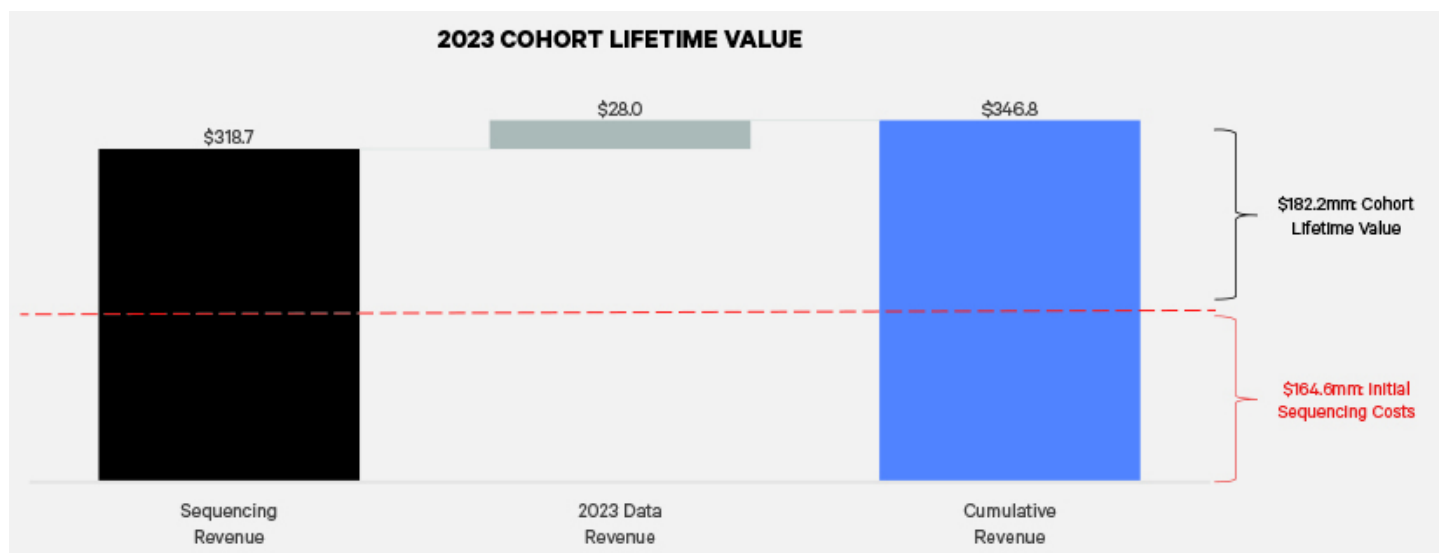
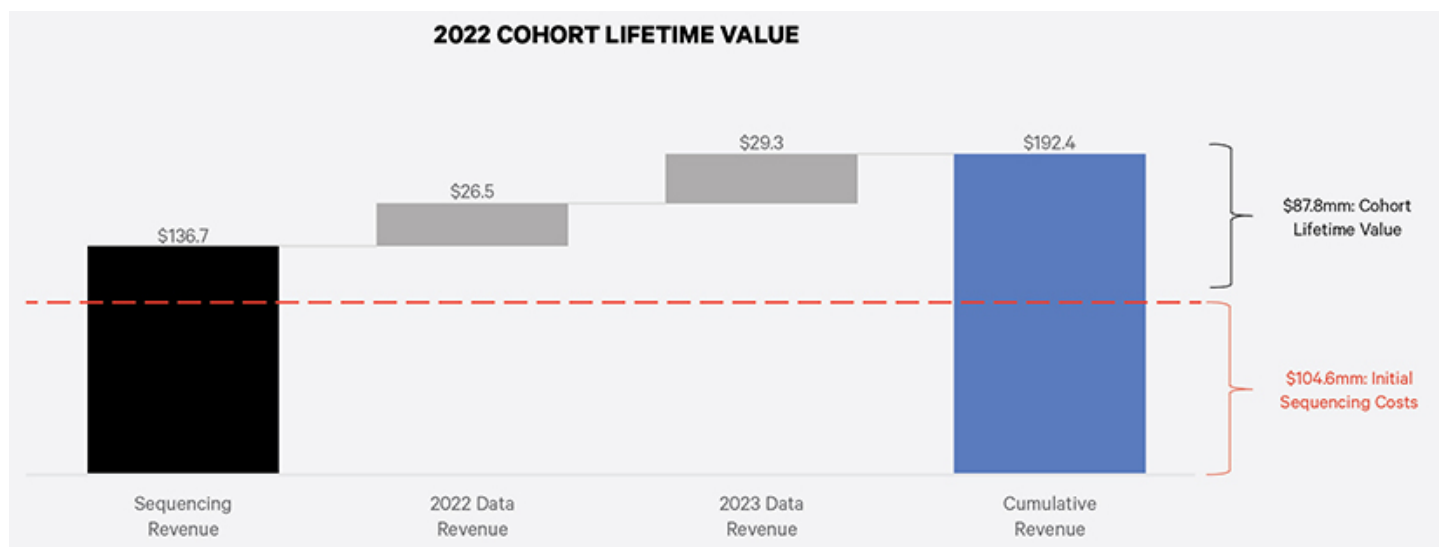
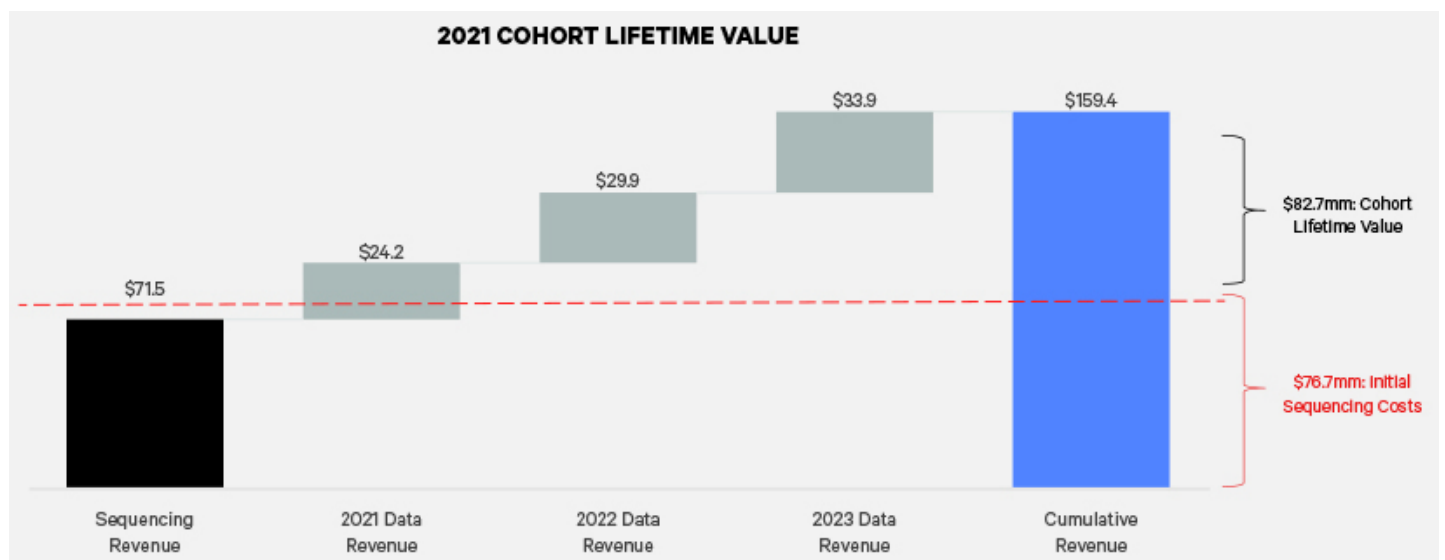
We retain broad rights to commercialize most of the de-identified data we collect, and we are able to license the same de-identified records to multiple customers. Additionally, because many of our data profiles regularly update with clinical outcome and response data, the value of a single de-identified record can increase over time.

To illustrate one of the ways that our business model differs from traditional diagnostics companies, we present below the “Cohort Lifetime Value” derived from records in our de-identified dataset based on the year of data generation. We define “Cohort Lifetime Value” as the cumulative revenue attributable to a specific cohort of de-identified records, including revenue derived both from the initial sequencing (Genomics) and licensing and related services (Data and Services), less the initial sequencing costs incurred to generate the data ultimately licensed. Sequencing revenue is a component of genomics revenue in our Consolidated Statement of Operations and differs from total genomics revenue due to other components, including COVID-19 PCR testing and other lab services unrelated to our data business. Data and Services revenue is a component of Data and services revenue in our Consolidated Statement of Operations and represents the revenues recognized in each period attributable to each cohort. Initial sequencing costs are a component of Cost of revenue, genomics in our Consolidated Statement of Operations and include laboratory personnel compensation and benefits, as well as the cost of laboratory supplies and consumables, depreciation of laboratory equipment, shipping costs, and certain allocated overhead expenses. Total initial sequencing costs differ from total Cost of revenues, genomics due to other components, including costs associated with COVID-19 PCR testing and other lab services unrelated to our data business. Notably, “Cohort Lifetime Value” does not include costs reported as Cost of revenues, data and services in the Consolidated Statement of Operations. Cost of revenues, data and services were \$40.2 million and \$56.5 million for the years ended December 31, 2022 and 2023, respectively. These costs represented 32.8% and 33.5% of data and services revenue for the years ended December 31, 2022 and 2023, respectively.

In 2018, the first full year that we operated a laboratory, we sequenced samples from approximately 7,500 patients. From that 2018 cohort of sequenced patients, through December 31, 2023, we generated \$66.2 million of combined revenue from sequencing, data licensing of de-identified data derived from those records, analytical services, and clinical trials matching, which is approximately 7.4 times the revenue we received from sequencing of that cohort in the initial year. The total cost to sequence the 2018 cohort was \$17.4 million, of which \$9.0 million was covered by reimbursement for the corresponding sequencing tests. We then generated \$16.4 million of data revenue from that cohort in 2018, finishing the year with a “Cohort Lifetime Value” of \$8.0 million. As more customers licensed de-identified records from the 2018 cohort in subsequent years, we generated additional revenue in 2019 to 2023 from the 2018 cohort, and as of December 31, 2023, the 2018 “Cohort Lifetime Value” was \$48.8 million. We experienced similar trends for the 2019 to 2023 cohorts. As of December 31, 2023, the 2019 “Cohort Lifetime Value” was \$63.7 million, the 2020 “Cohort Lifetime Value” was \$70.8 million, the 2021 “Cohort Lifetime Value” was \$82.7 million, the 2022 “Cohort Lifetime Value” was \$87.8 million, and the 2023 “Cohort Lifetime Value” was \$182.2 million in its first year of existence.

“Cohort Lifetime Value” for the 2018 to 2023 data cohorts is illustrated in the graphs below.





Our second focus area within our Data and Services product line, Trials, is a suite of services designed to leverage the broad network of physicians we work with in oncology to provide clinical trial support for pharmaceutical companies that are looking to reach hard-to-find and underserved patient populations. Our clinical trial matching product, which we refer to as TIME, is built on top of our near real-time data feeds and

harnesses AI to accelerate the connection between patients, clinical trial sites (hospitals), and clinical trial sponsors (life sciences companies). We empower both oncologists to help their patients find clinical trials and pharmaceutical companies to enroll patients into their trials. We generate revenue from both matching the patient to the trial (through notices we send to physicians alerting them of potential trials that are a fit for their patients), and from the patient actually enrolling in the trial. Since its introduction, this program has gained significant traction with more than 230 clinical trials signed into the network. More than 30,000 patients were identified for potential enrollment into clinical trials in our network, as of March 31, 2024. We believe the breadth of our network, the data to which we have near real-time access, and our relationships with oncologists enable us to offer a clinical trial matching service that has the potential to materially expand patient access to and accelerate enrollment in clinical trials in the United States.

In addition to TIME, we provide other clinical trial services and conduct our own studies as part of our Trials program, all with a goal of identifying new therapies and bringing them to market more efficiently. In January 2022, we acquired Highline Consulting, LLC, a contract research organization, or CRO, which we subsequently renamed Tempus Compass, LLC, or Tempus Compass. Tempus Compass manages and executes early and late-stage clinical trials, primarily in oncology. We also partner with life sciences companies to sponsor studies of drugs, devices, and diagnostics, integrating our life science solutions to help bring new drugs to market faster. Each of the products and services within our Trials program complement each other to create a suite of integrated solutions for life sciences companies from early discovery to commercialization.

AI Applications

Our third product line, AI Applications, or Algos, is focused on developing and providing diagnostics that are algorithmic in nature, implementing new software as a medical device, and building and deploying clinical decision support tools. The primary product of AI Applications is currently “Next,” an AI platform that leverages machine learning to apply an “intelligent layer” onto routinely generated data to proactively identify and minimize care gaps for oncology and cardiology patients. As this product gains adoption, we intend to leverage large language models, generative AI algorithms, and our vast database of de-identified data to develop algorithmic diagnostics designed to identify these patients earlier in their disease progression, when treatments are most effective.

Within oncology, we offer a suite of algorithmic tests as complements to our NGS assays, including our tumor origin test, or TO test, our homologous recombination deficiency test, or HRD test, and our Dihydropyrimidine Dehydrogenase Deficiency, or DPYD test. Our TO test is designed to predict the site of origin for cancer patients for whom the primary tumor site is unknown, which represents approximately 3% of cancer patients. Our TO test compares the molecular profile of the tumor with profiles of other cancers in our database. Our HRD test is designed to identify patients who might be sensitive to poly (ADP-ribose) polymerase inhibitors, or PARP inhibitors, which we estimate represent approximately 936,000 addressable patients in breast, ovarian, pancreatic, and prostate cancer patients. Identifying which patients are PARP sensitive can help physicians pursue specific courses of treatment, which may meaningfully prolong the patient’s life expectancy. Our DPYD test is designed to identify certain alterations in the DPYD gene, which may be associated with a patient’s potential toxicity to 5-FU/Capecitabine chemotherapy based on the associated drug labeling and guidelines from the Clinical Pharmacogenomics Implementation Consortium, or CPIC.

In cardiology, we ingest multimodal data and use over 60 algorithms to identify potential care gaps and continuously monitor patient data to find at-risk patients who may be falling through a care gap unbeknownst to their physician, and automatically notify care teams of any needed follow-up or likely disease progression. More than 80 hospitals nationwide are currently powered by Tempus Next and more than 44,000 patients are screened per month. We are also developing algorithmic models that aid clinicians in identifying patients at increased risk of developing atrial fibrillation, or AFib, along with a variety of other cardiac conditions. These Algos are trained using de-identified data derived from approximately 3.5 million electrocardiograms, or ECGs, across more than

700,000 patients, with decades of longitudinal connected clinical data, including outcome and response data. As part of this initiative, the U.S. Food and Drug Administration, or FDA, awarded Tempus breakthrough designation status for an algorithm to predict AFib from a normal ECG for certain populations. Approximately 3.5% of all ECG results appear not to have AFib upon initial read, yet a major cardiac trauma or stroke occurs in these patients within a year. We estimate that approximately 300 million ECGs are run annually worldwide, and accordingly, this group of algorithms could affect up to ten and a half million patients each year.

We are also advancing Algos that are designed to predict aortic stenosis, and we are working on other disease areas within cardiology, such as low ejection fraction and familial hypercholesterolemia. If broadly deployed, we believe these Algos could have widespread clinical applicability, increase life expectancy, and reduce the total cost of care.

In addition to algorithms based on NGS testing or in the cardiology space, we offer, or are developing, a suite of algorithms derived from radiologic images and digital pathology slides. In October 2022, we acquired Arterys, Inc., a company that provides a platform to derive insights from radiologic medical images to improve diagnostic decision-making, efficiency, and productivity across multiple disease areas. We have also developed algorithms based on Immunohistochemistry, or IHC, and H&E staining, which can be used, among other things, to help identify patients who may be eligible for additional treatments or clinical trials.

Our AI Applications product line represents an emerging category of diagnostics and has the potential to be highly disruptive across diagnostic tests in a broad set of disease areas. We believe that as our database grows, we will be able to expand our offerings, representing a significant long-term opportunity that may be substantially larger than our other existing product lines. We believe our ability to launch generative AI Applications at scale could be a unique differentiator of our Platform. For each AI Application, we use data the same way legacy diagnostics companies use chemistry in the battle against disease, attempting to improve patient care by learning from the patients who have come before, and tailoring test results based on a patient's unique profile. Some Algos will likely yield little to no reimbursement until their clinical utility is well established, and some may obtain reimbursement at prevailing rates for comparable tests.

Market Opportunity

We believe our Platform's impact on healthcare could be profound, and that quantifying our potential market opportunity is challenging, especially for opportunities like Algos that are in their infancy. Our Platform is particularly well suited when there exists both heterogeneous conditions that make up a diseased population and a variety of potential therapeutics or therapeutic pathways, often prescribed based on trial and error. When these conditions exist, technology and AI can facilitate precision medicine through data associations that substantially reduce the guesswork associated with which drug to prescribe, in what amount, and in which order. We are currently focused on oncology, neuropsychiatry, cardiology, and radiology, in which there is over \$3 trillion of economic burden according to publicly available sources.

Within these markets, our Platform addresses both the clinical diagnostic testing market as well as the market for therapeutic research and development. Our Genomics product line targets an addressable market opportunity for diagnostic testing services that we estimate at over \$70 billion across just oncology and neuropsychiatry, which includes an estimated addressable market opportunity for solid tumor recurrence and treatment monitoring of over \$20 billion. Our Data and Services product line operates within a market in which life sciences companies spent an estimated \$262 billion in 2023 on research and development according to Evaluate Pharma, and addresses needs within the \$50 billion clinical trial services market, the \$51 billion market for biomarker discovery, and the \$18 billion market for third party research for "real world evidence", as estimated according to Mordor Intelligence and our internal estimates. Over time, we believe that the potential market opportunity for our AI Applications product line could be substantially larger than our other product lines combined.

Long-Term Vision

We are in the early stages of addressing the significant market opportunity that is emerging as AI permeates healthcare. Based on our current customer adoption, Tempus has already built what we consider to be one of the largest multimodal datasets for cancer patients in the world (with other diseases following). We believe our competitive advantages are substantial. Our Genomics product line, which is based on our strong and extensive relationships with providers, feeds our Platform; our Data and Services product line is powered by dedicated, near real-time data pipelines that we believe are increasingly difficult to replicate; and our proprietary technology has allowed us to scale where others have been unable. As we are now connected to more than 50% of all oncologists practicing in the United States in some way, and a growing number of neuropsychiatric and cardiology patients, we have reached what we believe is an inflection point for adoption. As we collect more data, our tests become more accurate, we launch more applications, which leads more physicians to join our network, thereby growing our database even further, making our tests more precise for clinicians and our database more valuable for researchers.

Our goal is to make vast amounts of healthcare information accessible and useful, allowing data to be organized and analyzed for the benefit of patients, physicians, and researchers. We envision a world where currently siloed, inaccessible datasets are instantly available through a single, purpose-built Platform to bring generative AI to healthcare. In oncology, this means the ability to generate new insights using molecular and anatomic pathology, bioinformatics, genomic variant analysis, inherited cancer risk, computational biology, drug label data, noted adverse events, clinical trials data, research publications, investigational studies, care pathways, real world evidentiary studies, and phenotypic and morphologic data. We envision a world where all of this data is connected to every diagnostic test run, with the results contextualized and personalized so that physicians can make data-driven decisions in real time in the clinical setting.

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Tempus has built the first version of our desired world—in oncology, in the United States—as our platform connects a patient’s genomic and clinical data to help physicians determine the optimal therapeutic path. Our tests are designed to know who the patient is. When we have the requisite data, the tests do not recommend drugs that have already been prescribed or clinical trials for which patients are not eligible.

Our current product and service offerings represent the first step toward our singular pursuit: a world where physicians tailor their patient’s treatment based on data, so that every complex case is handled in a personalized fashion, making the promise of precision medicine a reality. We endeavor to make all laboratory tests (genomic or otherwise) AI-enabled or “Intelligent” because we believe this is the fastest path to bring the promise of AI to healthcare, improving outcomes for those most in need.

To this singular pursuit we are indelibly focused.

Our Competitive Advantages

- We are both a technology company and a healthcare company, allowing us to harness the advantages of both to advance precision medicine.
- We have built a Platform that is connected to hundreds of provider networks, allowing us to amass a large repository of multimodal data that we believe is essential for bringing AI to healthcare.
- Our Intelligent Diagnostics provide significant value to our customers, which has fostered broad adoption of many of our products.
- Our business model has inherent network effects that help drive adoption and improve our data advantage with each new order placed.
- Our Platform was built to collect, structure, harmonize and analyze large amounts of multimodal data and make use of large language models deploying generative AI applications in healthcare.
- Our Platform is disease agnostic and facilitates rapid expansion into different disease categories.
- The size of our database and the breadth of our multimodal data capabilities position us well to be able to launch algorithmic diagnostics (Algos) and other AI Applications at scale.
- Many of our products and services are already widely used throughout the healthcare ecosystem.
- Our technology integration, go to market and commercial infrastructure provide a significant strategic advantage that can be leveraged to accelerate new product launches and realize efficiencies.

Our Growth Strategy

- Grow our database and the number of providers connected to our Platform.
- Drive increased adoption of our Genomics product across healthcare providers.
- Drive increased adoption of our data licensing and clinical trial matching products with pharmaceutical and biotechnology companies.
- Validate and deploy AI Applications at scale.
- Expand our capabilities and commercial traction outside of oncology, including in neuropsychiatry, radiology, cardiology, and other disease categories.
- Expand internationally.

Recent Developments

Series G-5 Financing

On April 30, 2024, we entered into a stock purchase agreement with an investor affiliated with SoftBank Group Corporation, or SoftBank, pursuant to which we issued and sold 3,489,981 shares of our Series G-5 convertible preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$200.0 million. The terms of our Series G-5 convertible preferred stock provide that in the event of an initial public offering of our Class A common stock, each share of Series G-5 convertible preferred stock would be converted into a number of shares of our Class A common stock equal to (i) \$57.3069 per share, plus any accrued and unpaid dividends on such share, divided by (ii) the lesser of (a) \$51.5762 and (b) 90% of the public offering price in this offering. Based on an assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, all of the shares of Series G-5 convertible preferred stock will convert into an aggregate of 6,172,839 shares of our Class A common stock in connection with

this offering. A \$1.00 increase in the assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would decrease the number of shares of Class A common stock into which all shares of Series G-5 convertible preferred stock would convert in connection with this offering by approximately 166,833 shares. A \$1.00 decrease in the assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase the number of shares of Class A common stock into which all shares of Series G-5 convertible preferred stock would convert in connection with this offering by approximately 176,367 shares.

Japan Joint Venture and Related Agreements

On May 18, 2024, we entered into a Joint Venture Agreement, or the Joint Venture Agreement, by and among SoftBank, SoftBank Group Japan Corporation, Tempus and Pegasos Corp., or the Joint Venture, pursuant to which the Joint Venture will engage in certain business activities in Japan similar to those conducted by Tempus in the United States, including performing clinical sequencing, organizing patient data, and building a real world data business in Japan. We and SoftBank initially will capitalize the Joint Venture with ¥30,000,000,000 (approximately \$190,779,000, based on foreign exchange rates as of May 31, 2024, split evenly between the two parties) and will each receive 50% of the Joint Venture's outstanding capital stock and board seats. The initial capitalization of the Joint Venture is subject to a number of closing conditions, including that the parties must agree to a business plan and operating budget for the Joint Venture, receive an independent valuation of certain Tempus licensed technology and obtain any required regulatory clearances in the United States and Japan.

In connection with entering into the Joint Venture Agreement, Tempus entered into the following agreements with the Joint Venture: a Data License Agreement, or the Data License Agreement, which became effective immediately upon signing the Joint Venture Agreement; an Intellectual Property License Agreement, or the IP License Agreement, and a Services Agreement, each of which will become effective upon closing. Under the Data License Agreement, Tempus will grant the Joint Venture a limited, non-exclusive, transferable license with a limited right to sublicense certain de-identified data for certain specified uses solely in Japan (which we refer to as the Unrestricted Data License). The Unrestricted Data License will be initially granted with respect to a certain specified number of de-identified data records (which we refer to as the Initial Records Batch) and the Joint Venture may elect to license additional de-identified data records under the Unrestricted Data License. Under the Data License Agreement, the Joint Venture will pay us ¥7,500,000,000 (approximately \$47,694,750 based on foreign exchange rates as of May 31, 2024) in exchange for the license to the Initial Records Batch. For a certain specified number of additional de-identified data records beyond the Initial Records Batch, the license fees will be the same as the Initial Records Batch or the then-current lowest price that Tempus provides to its other customers for similar data and license terms, whichever is lower. For any additional de-identified data records licensed under the Unrestricted Data License, the license fees will be the then-current lowest price that Tempus provides to its other customers for similar data and license terms. Pursuant to the IP License Agreement, we will provide the Joint Venture with a non-exclusive license with respect to certain of our technologies for certain specified uses solely in Japan in exchange for ¥7,500,000,000 (approximately \$47,694,750 based on foreign exchange rates as of May 31, 2024). Under the Services Agreement, we will provide the Joint Venture with certain services.

Pursuant to the terms of the Joint Venture Agreement, until the later of five years and such time as we cease to be a shareholder of the Joint Venture, we are restricted from (i) engaging in a similar business as the Joint Venture in Japan or (ii) licensing our technologies to any competitor of the Joint Venture for use in Japan. In addition, during the same period, we have agreed not to launch or operate a joint venture with a third party other than Softbank in Korea, Thailand, Singapore, Malaysia, Indonesia, the Philippines, the United Arab Emirates, Saudi Arabia or any other territory where we and SoftBank have agreed to launch a joint venture or similar commercial relationship, without first consulting with Softbank and subject to their right of first refusal. This restriction will terminate if SoftBank engages in a similar business as the Joint Venture in Japan. There can be no assurance that closing conditions under the Joint Venture Agreement will be satisfied or when, that the Joint

Venture will be capitalized on the terms described herein or at all or that the IP License Agreement and/or the Services Agreement will become effective on the terms described herein or at all.

Risk Factors Summary

Investing in our Class A common stock involves substantial risk. The risks described in the section titled “Risk Factors” immediately following this summary may cause us to not realize the full benefits of our strengths or may cause us to be unable to successfully execute all or part of our strategy. Some of the more significant challenges include the following:

- We have incurred significant losses since inception, we may continue to incur losses in the future, and we may not be able to generate sufficient revenue to achieve and maintain profitability.
- Our current or future products may not achieve or maintain sufficient commercial market acceptance.
- Our operating results may fluctuate significantly, which makes our future operating results difficult to predict and could cause our operating results to fall below expectations or any guidance we may provide.
- The success of our business depends on our continued access to, and ability to monetize, de-identified patient data.
- Our limited operating history and rapid growth make it difficult to evaluate our future prospects and the risks and challenges we may encounter.
- We will need to raise additional capital to fund our existing operations, develop our Platform, commercialize new products or expand our operations.
- If third-party payers, including commercial payers and government healthcare programs, do not provide coverage of, or adequate reimbursement for, or reverse or change their policies related to our tests, our business, financial condition and results of operations will be negatively affected.
- Failure of, or defects in, our Platform’s AI software, or increased regulation in this space, could impair our ability to process our data, develop products, or provide test results, and harm our business, financial condition and results of operations.
- If we cannot compete successfully with our competitors, we may be unable to increase or sustain our revenue or to achieve and then sustain profitability.
- We may acquire businesses, form joint ventures or make investments in companies or technologies that could negatively affect our operating results, distract management’s attention from other business concerns, dilute our stockholders’ ownership, and significantly increase our debt, costs, expenses, liabilities and risks.
- We rely on a limited number of suppliers or, in some cases, sole suppliers, for some of our laboratory instruments and materials and may not be able to find replacements or promptly transition to alternative suppliers.
- If our existing laboratory and storage facilities become damaged or inoperable or we are required to vacate our existing facilities, our ability to perform our tests and pursue our research and development efforts may be jeopardized.
- We conduct business in a heavily regulated industry, and changes in regulations or violations of regulations may, directly or indirectly, reduce our revenue, adversely affect our business, financial condition and results of operations.
- If we are unable to obtain, maintain and enforce sufficient intellectual property protection for our Platform and products, or if the scope of the intellectual property protection obtained is not sufficiently broad, our competitors or other third parties could develop and commercialize products similar or identical to ours, and our ability to successfully commercialize our products may be impaired.

- We are highly dependent on the services of Eric Lefkofsky and other members of our senior management team and the loss of any member of our senior management team or our inability to attract and retain highly skilled scientists, clinicians, sales representatives and business development managers could adversely affect our business, financial condition and results of operations.
- We depend on information technology systems, including on premises, co-located and third-party data centers and platforms, and any interruptions of service or failures may impair and harm our business, financial condition and results of operations.
- Future sales of our Class A common stock in the public market could cause the market price of our Class A common stock to decline.
- The lock-up agreements relating to this offering are subject to a number of important exceptions and the restricted period pursuant to such lock-up agreements or the market standoff agreements with our RSU holders may be shortened. In addition, a significant number of shares may be sold in sell-to-cover transactions and we may issue a significant number of shares as consideration in certain transactions, including during the restricted period. As a result, a large number of shares of Class A common stock may become available for resale in the immediate future, including within 180 days after the date of this prospectus, which could materially depress the market price of our Class A common stock.
- The dual class structure of our common stock will have the effect of concentrating voting control with our Chief Executive Officer, Founder and Chairman, which will limit your ability to influence the outcome of important decisions.
- We anticipate incurring substantial federal and state tax withholding and remittance obligations in connection with the settlement of RSUs that vest in connection with this offering. The manner in which we fund these tax liabilities may have an adverse effect on our financial condition.
- We have not elected to take advantage of the “controlled company” exemption to the corporate governance rules for publicly listed companies but may do so in the future.
- Our existing and any future debt may affect our flexibility in operating and developing our business and our ability to satisfy our obligations.

Corporate Information

We were founded by Eric Lefkofsky, originally formed under the name Bioin LLC in Delaware in August 2015 and we converted to a Delaware corporation in September 2015 under the name Bioin Inc. We changed our name to Tempus Health, Inc. later in 2015, to Tempus Labs, Inc. in 2016 and in 2023, we changed our name to Tempus AI, Inc. Our principal executive offices are located at 600 West Chicago Avenue, Suite 510 Chicago, Illinois 60654, and our telephone number is (800) 976-5448. Our website address is www.tempus.com. Information contained on, or that can be accessed through, our website is not incorporated by reference into this prospectus, and you should not consider information on our website to be part of this prospectus.

The Tempus logo, “Tempus” and our other registered and common law trade names, trademarks and service marks are the property of Tempus AI, Inc. or our subsidiaries. Other trade names, trademarks and service marks used in this prospectus are the property of their respective owners.

Implications of Being an Emerging Growth Company

We are an “emerging growth company” as defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act. We may take advantage of certain exemptions from various public company reporting requirements, including not being required to have our internal control over financial reporting audited by our independent registered public accounting firm under Section 404 of the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and exemptions from the requirements of holding a non-binding advisory vote on executive compensation and any golden parachute payments. We may take advantage of these exemptions for up

to five years or until we are no longer an emerging growth company, whichever is earlier. We will cease to be an emerging growth company prior to the end of such five-year period if certain earlier events occur, including if we become a “large accelerated filer” as defined in Rule 12b-2 under the Securities Exchange Act of 1934, as amended, or the Exchange Act, our annual gross revenues exceed \$1.235 billion or we issue more than \$1.0 billion of non-convertible debt in any three-year period. In particular, in this prospectus, we have provided only two years of audited financial statements and have not included all of the executive compensation related information that would be required if we were not an emerging growth company. Accordingly, the information contained herein may be different than the information you receive from other public companies in which you hold stock. In addition, the JOBS Act provides that an “emerging growth company” can delay adopting new or revised accounting standards until those standards apply to private companies. We have elected to use the extended transition period under the JOBS Act. Accordingly, our financial statements may not be comparable to the financial statements of public companies that comply with such new or revised accounting standards.

THE OFFERING

Class A common stock offered by us	11,100,000 shares
Option to purchase additional shares of Class A common stock offered by us to cover over-allotments, if any	1,665,000 shares
Class A common stock to be outstanding immediately after this offering	160,060,473 shares (or 161,725,473 shares if the underwriters' over-allotment option is exercised in full)
Class B common stock to be outstanding immediately after this offering	5,043,789 shares
Total Class A common stock and Class B common stock to be outstanding immediately after this offering	165,104,262 shares (or 166,769,262 shares if the underwriters' over-allotment option is exercised in full)
Use of proceeds	<p>We estimate that we will receive net proceeds from this offering of approximately \$361.1 million (or approximately \$416.9 million if the underwriters' over-allotment option is exercised in full), assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, and after deducting estimated underwriting discounts and commissions and estimated offering expenses.</p> <p>We intend to use approximately \$74.5 million of the net proceeds from this offering to pay federal and state tax withholding and remittance obligations related to the RSU Net Settlement (defined below). As of the date of this prospectus, we cannot specify with certainty all of the particular uses for the remaining net proceeds of this offering. However, we currently intend to use the remaining net proceeds of this offering for general corporate purposes, including working capital, operating expenses, repayment of debt and capital expenditures. We may also use a portion of the net proceeds to acquire complementary businesses, products, services or technologies. At this time, we do not have agreements or commitments to enter into any material acquisitions. See the section titled "Use of Proceeds" for additional information.</p>
Voting rights	<p>We will have two classes of common stock following this offering: Class A common stock and Class B common stock. Each share of Class A common stock is entitled to one vote and each share of Class B common stock is entitled to 30 votes and is convertible at any time into one share of Class A common stock. In addition, all shares of Class B</p>

common stock will automatically convert into shares of Class A common stock in certain circumstances, including (1) on the date that Eric Lefkofsky, our Chief Executive Officer, Founder and Chairman ceases to serve as an executive officer or member of our Board of Directors or (2) on the trading day that is no less than 90 days and no more than 150 days following the date on which he ceases to own, together with his controlled entities, at least 10,000,000 shares of our capital stock (as adjusted for stock splits, stock dividends, combinations, subdivisions and recapitalizations). See the section titled “Description of Capital Stock—Class A Common Stock and Class B Common Stock.”

Holders of Class A common stock and Class B common stock will generally vote together as a single class, unless otherwise required by law or our amended and restated certificate of incorporation that will be in effect on the closing of this offering. Our Chief Executive Officer, Founder and Chairman, Eric Lefkofsky, will beneficially own 100% of our outstanding Class B common stock and will hold approximately 65.3% of the voting power of our outstanding shares immediately following this offering. As a result, Mr. Lefkofsky will have the ability to control the outcome of matters submitted to our stockholders for approval, including the election of our directors and the approval of any change in control transaction. See the sections titled “Principal Stockholders” and “Description of Capital Stock” for additional information.

Risk factors

You should carefully read the section titled “Risk Factors” beginning on page 28 and the other information included in this prospectus for a discussion of facts that you should consider before deciding to invest in shares of our Class A common stock.

Nasdaq Global Select trading symbol

“TEM”

The number of shares of Class A common stock and Class B common stock that will be outstanding immediately after this offering as noted above is based on 148,960,473 shares of Class A common stock and 5,043,789 shares of Class B common stock outstanding as of March 31, 2024 on a pro forma basis, after giving effect to the adjustments set forth in footnote 2 to the table in “—Summary Consolidated Financial Data” below and excludes:

- 5,472,557 shares of Class A common stock issuable on the vesting and settlement of restricted stock units, or RSUs, as of March 31, 2024 under our Third Amended and Restated 2015 Stock Plan, as amended, or 2015 Plan, for which the performance-based vesting condition will be satisfied in connection with this offering, but for which the service-based vesting condition will not be satisfied on or before June 14, 2024;

- 1,527,044 shares of Class A common stock issuable upon the settlement of RSUs granted after March 31, 2024 under the 2015 Plan;
- 7,430,000 shares of Class A common stock reserved for future issuance under our 2024 Equity Incentive Plan, or 2024 Plan, as well as any future increases, including annual automatic evergreen increases (as described in the section of this prospectus titled “Executive Compensation—Equity Incentive Plans”), in the number of shares of Class A common stock reserved for issuance under the 2024 Plan;
- 3,000,000 shares of Class A common stock reserved for future issuance under our 2024 Employee Stock Purchase Plan, or the ESPP, as well as any future increases, including annual automatic evergreen increases (as described in the section of this prospectus titled “Executive Compensation—Equity Incentive Plans”), in the number of shares of Class A common stock reserved for issuance under the ESPP;
- 210,000 shares of Class A common stock issuable on the exercise of a stock option outstanding as of March 31, 2024 under the 2015 Plan, with an exercise price of \$0.8542 per share;
- shares of Class A common stock issuable upon conversion of the promissory note we issued to Google LLC, as amended, which note is convertible beginning in March 2026 into a number of shares determined by dividing (i) the then outstanding principal amount of such note (which was \$186.7 million as of March 31, 2024) plus accrued and unpaid interest by (ii) the average of the last trading price of our Class A common stock on each trading day during the twenty-day period ending immediately prior to March 22, 2026, as more fully described in the section of this prospectus titled “Description of Capital Stock—Convertible Promissory Note”;
- 2,777,778 shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, issuable upon the exercise of the warrant issued to AstraZeneca AB, or AstraZeneca, with an exercise price equal to the initial public offering price, as more fully described in the section of this prospectus titled “Business—Operations—Our Strategic Collaboration—AstraZeneca Master Services Agreement”;
- up to \$9.0 million in shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, issuable to one of our stockholders pursuant to a contingent payment right, which payment may be made in cash or shares of Class A common stock, upon mutual agreement of us and such stockholder;
- up to 35,000 shares of Class A common stock issuable to former stockholders of SEngine based on the average of the trading prices of our Class A common stock for the seven trading days immediately after the effective date of this offering; and
- additional shares of our Class A common stock in an amount up to 15.0% of the total number of shares of our common stock outstanding immediately following this offering, which we may issue in connection with acquisitions, joint ventures, commercial agreements and other similar arrangements pursuant to an exception from our lock-up during the 180-day period following the date of this prospectus, as further described in the section entitled “Underwriting.”

In addition, unless we specifically state otherwise, the information in this prospectus (except for the historical financial statements and the related discussion of such financial information) assumes:

- the filing of our amended and restated certificate of incorporation and the effectiveness of our amended and restated bylaws, each of which will occur upon the closing of this offering;

- the conversion on a one-for one basis of all outstanding shares of our Series B redeemable convertible preferred stock into an aggregate of 5,374,899 shares of Class B common stock, which will occur upon the closing of this offering, and the subsequent transfer of 331,110 shares of Class B common stock to entities not controlled by Mr. Lefkofsky resulting in their automatic conversion into shares of Class A common stock, or the Class B Transfer, such that there will be 5,043,789 shares of Class B common stock outstanding immediately following the consummation of this offering, or the Series B Preferred Stock Conversion and Transfer;
- the issuance and sale of 3,489,981 shares of Series G-5 convertible preferred stock in April 2024 as if such issuance and sale had occurred on March 31, 2024;
- the conversion of all outstanding shares of redeemable convertible preferred stock (including Series G-5 convertible preferred stock), other than our Series B redeemable convertible preferred stock, into an aggregate of 66,935,254 shares of Class A common stock (including 3,236,829 shares, 1,490,562 shares and 6,172,839 shares of Class A common stock as a result of the conversion of all outstanding shares of Series G-3 convertible preferred stock, Series G-4 convertible preferred stock and Series G-5 convertible preferred stock, respectively, the conversion terms of which are more fully described in the section titled “Management’s Discussion and Analysis of Financial Condition and Result of Operations—Liquidity and Capital Resources” appearing elsewhere in this prospectus), assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, which will occur upon the closing of this offering, or the Preferred Stock Conversion;
- the issuance of 5,227,001 additional shares of Class A common stock, which we refer to as the Additional Class A Conversion Shares, upon the conversion of all outstanding shares of our redeemable convertible preferred stock upon the closing of this offering (based on dividends accruing through June 14, 2024) pursuant to provisions of our certificate of incorporation as currently in effect, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, as more fully described below in the section titled “—Additional Class A Conversion Shares”, or the Additional Class A Conversion Share Issuance;
- the payment of \$5.6 million of accrued cash dividends on June 4, 2024, as if such payment had occurred on March 31, 2024;
- the conversion of all outstanding shares of our nonvoting common stock into 5,069,477 shares of Class A common stock, which will occur upon the closing of this offering;
- the net issuance of 2,527,923 shares of Class A common stock upon the settlement of 4,596,224 RSUs outstanding as of March 31, 2024 under our 2015 Plan for which the performance-based vesting condition will be satisfied in connection with this offering and for which any service-based vesting condition will be satisfied on or before June 14, 2024, after giving effect to the withholding of 2,068,301 shares of Class A common stock to satisfy estimated federal and state tax withholding and remittance obligations, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, and an assumed 45% tax withholding rate, as more fully described below in the section titled “—RSU Settlement,” or the RSU Net Settlement;
- the issuance of 10,724,524 shares of Class A common stock upon the settlement of RSUs outstanding as of March 31, 2024 under our 2015 Plan for which the performance-based vesting condition will be satisfied in connection with this offering and for which any service-based vesting condition will be satisfied on or before June 14, 2024 that are not included in the RSU Net Settlement, as more fully described below in the section titled “—RSU Settlement,” or the Additional RSU Settlement;

- the issuance of 108,333 shares of Class A common stock (assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus) upon the automatic net exercise of an outstanding warrant held by Allen & Company LLC, or Allen, an underwriter for this offering, as more fully described in the section of this prospectus titled “Description of Capital Stock—Warrants,” or the Warrant Net Exercise;
- no exercise of the underwriters’ option to purchase up to 1,665,000 additional shares of Class A common stock from us in this offering to cover over-allotments, if any; and
- no exercise of options or settlement of outstanding RSUs except as described above.

Additional Class A Conversion Shares

Upon any conversion of our redeemable convertible preferred stock into common stock, including in connection with the closing of this offering, we are obligated to pay declared or accrued dividends on shares of our redeemable convertible preferred stock, at our option, in cash or in shares of common stock. As of June 14, 2024, shares of redeemable convertible preferred stock will have accrued approximately \$187.7 million in unpaid dividends, which we expect to pay in shares of our Class A common stock in connection with the closing of this offering. As a result, at the closing of this offering, we expect to issue the Additional Class A Conversion Shares to holders of shares of our redeemable convertible preferred stock. The number of Additional Class A Conversion Shares to be issued depends on the initial public offering price of our Class A common stock. Based on an assumed initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, we will issue 5,227,001 Additional Class A Conversion Shares immediately prior to the closing of this offering. A \$1.00 decrease in the assumed initial public offering price of \$36.00 per share of Class A common stock, the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase the number of Additional Class A Conversion Shares in the Class A Conversion Share Issuance by 149,342 shares. A \$1.00 increase in the assumed initial public offering price of \$36.00 per share of Class A common stock, the midpoint of the estimated price range set forth on the cover page of this prospectus, would decrease the number of Additional Class A Conversion Shares in the Class A Conversion Share Issuance by 141,270 shares.

RSU Settlement

There were 15,320,748 RSUs outstanding as of March 31, 2024 for which the performance-based vesting condition will be satisfied in connection with this offering and for which any service-based vesting condition will be satisfied on or before June 14, 2024. We expect to incur a stock-based compensation expense of \$478.9 million in connection with the consummation of this offering related to such vesting.

A portion of these RSUs, including a portion of the RSUs held by our employees (including our Chief Executive Officer) and all RSUs held by our other executive officers, will be net settled pursuant to the RSU Net Settlement in which we will net issue 2,527,923 shares of Class A common stock upon settlement of 4,596,224 RSUs outstanding as of March 31, 2024 for which the performance-based vesting condition will be satisfied in connection with this offering and for which any service-based vesting condition will be satisfied on or before June 14, 2024, after giving effect to the withholding of 2,068,301 shares of Class A common stock to satisfy the estimated federal and state tax withholding and remittance obligations, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, and an assumed 45% tax withholding rate. Approximately 50,862 of such net issued shares will be issued to our Chief Executive Officer and approximately 686,919 of such net issued shares will be issued to our other executive officers.

For the remaining 10,724,524 RSUs outstanding as of March 31, 2024 for which the performance-based vesting condition will be satisfied in connection with this offering and for which any service-based vesting condition will be satisfied on or before June 14, 2024, we will satisfy related federal and state tax withholding and remittance obligations through the Additional RSU Settlement, pursuant to which we will release such holders (including our Chief Executive Officer) from their market standoff agreements and require them to sell a portion of such shares of Class A common stock into the open market through brokers, or sell-to-cover, on the applicable settlement date as follows:

Date First Available for Sale into the Market	Number of RSUs Expected to Settle	Approximate Number of Shares of Class A Common Stock to be Sold in Sell-to- Cover Transactions⁽¹⁾
91 days after the date of this prospectus (or the next trading day if such date is not a trading day)	5,362,261	2,413,017
120 days after the date of this prospectus (or the next trading day if such date is not a trading day)	5,362,262	2,413,018

(1) Assumes a 45% tax rate. Includes an estimated approximately 868,758 shares that may be sold on or after each of the 91st and 120th day following the date of this prospectus in respect of settlement of RSUs held by Mr. Lefkofsky.

The dates and numbers above are estimates. We expect each settlement and sell-to-cover transaction to extend over a multi-day period based on trading volumes. Because the purpose of sell-to-cover transactions is to generate proceeds sufficient to satisfy tax withholding obligations, the exact number of shares sold will depend on the sale prices of the Class A common stock in such transactions and our stockholders' personal tax rates. With respect to employees that are not executive officers, if sell-to-cover proceeds are not available at the time taxes must be remitted to the IRS, we would need to remit taxes to the relevant tax authorities using cash on hand, which may include cash proceeds generated from this offering, pending the receipt of such sell-to-cover proceeds.

SUMMARY CONSOLIDATED FINANCIAL DATA

The summary consolidated statement of operations data for the years ended December 31, 2022 and 2023 have been derived from our audited consolidated financial statements included elsewhere in this prospectus. The summary consolidated statement of operations data for the three months ended March 31, 2023 and 2024 and the summary consolidated balance sheet data as of March 31, 2024 have been derived from our unaudited interim consolidated financial statements included elsewhere in this prospectus. The unaudited interim consolidated financial statements have been prepared on the same basis as the audited consolidated financial statements, and in the opinion of management, reflect all adjustments, which include only normal recurring adjustments, necessary to present fairly our financial position and results of operations. You should read the consolidated financial data set forth below in conjunction with our consolidated financial statements and the accompanying notes and the information in “Management’s Discussion and Analysis of Financial Condition and Results of Operations” contained elsewhere in this prospectus. Our historical and interim results are not necessarily indicative of the results to be expected for the full year or any other period in the future.

	Year Ended		Three Months Ended	
	December 31, 2022	December 31, 2023	March 31, 2023	March 31, 2024
	(in thousands)			
Net revenue				
Genomics	\$ 197,984	\$ 363,022	\$ 82,058	\$ 102,569
Data and services	122,684	168,800	33,566	43,251
Total net revenue	<u>\$ 320,668</u>	<u>\$ 531,822</u>	<u>\$ 115,624</u>	<u>\$ 145,820</u>
Cost and operating expenses				
Cost of revenues, genomics	150,255	189,165	45,280	52,835
Cost of revenues, data and services	40,227	56,482	11,393	15,288
Technology research and development	79,093	95,155	22,902	27,067
Research and development	83,158	90,343	20,863	24,340
Selling, general and administrative	233,377	296,760	69,047	79,564
Total cost and operating expenses	<u>586,110</u>	<u>727,905</u>	<u>169,485</u>	<u>199,094</u>
Loss from operations	<u>\$ (265,442)</u>	<u>\$ (196,083)</u>	<u>\$ (53,861)</u>	<u>\$ (53,274)</u>
Interest income	3,032	7,601	2,424	1,031
Interest expense	(21,894)	(46,869)	(9,191)	(13,238)
Other (expense) income, net	(4,846)	21,822	6,388	749
Loss before provision for income taxes	<u>\$ (289,150)</u>	<u>\$ (213,529)</u>	<u>\$ (54,240)</u>	<u>\$ (64,732)</u>
Provision for income taxes	(66)	(288)	(6)	(11)
Losses from equity method investments	(595)	(301)	(131)	—
Net Loss	<u>\$ (289,811)</u>	<u>\$ (214,118)</u>	<u>\$ (54,377)</u>	<u>\$ (64,743)</u>
Accretion of convertible preferred stock to redemption value	(301)	(4,338)	—	—
Dividends on Series A, B, B-1, B-2, C, D, E, F, G, G-3, and G-4 preferred shares	(40,975)	(44,497)	(10,669)	(27,807)
Cumulative Undeclared Dividends on Series C preferred shares	(2,841)	(3,011)	(721)	(506)
Net loss available to common shareholders, basic and diluted	(333,928)	(265,964)	(65,767)	(93,056)
Net loss per share attributable to common shareholders, basic and diluted	<u>\$ (5.30)</u>	<u>\$ (4.20)</u>	<u>\$ (1.04)</u>	<u>\$ (1.47)</u>
Weighted-average shares outstanding used to compute net loss per share, basic and diluted ⁽¹⁾	<u>63,032</u>	<u>63,306</u>	<u>63,229</u>	<u>63,430</u>
Pro forma net loss per share attributable to common stockholders, basic and diluted ⁽²⁾		<u>\$ (4.62)</u>		<u>\$ (3.55)</u>
Weighted-average shares outstanding used to compute net loss per share, basic and diluted ⁽²⁾		<u>160,303</u>		<u>161,135</u>

- (1) See Notes 2 and 12 to our consolidated financial statements included elsewhere in this prospectus for an explanation of the calculations of our basic and diluted net loss per share attributable to common stockholders.
- (2) Pro forma net loss per share and the weighted-average number of shares used in the computation of the per share amounts for the year ended December 31, 2023 and the three months ended March 31, 2024 have been computed to give effect to (a) the Series B Preferred Stock Conversion and Transfer resulting in 5,043,789 shares of Class B common stock outstanding immediately following the consummation of this offering, (b) the issuance and sale of 3,489,981 shares of Series G-5 convertible preferred stock in April 2024 as if such issuance and sale had occurred on December 31, 2023 and March 31, 2024, as applicable, (c) the Preferred Stock Conversion resulting in the issuance of 66,935,254 shares of Class A common stock upon the closing of this offering, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, (d) the Additional Class A Conversion Share Issuance resulting in the issuance of 4,713,771 Additional Class A Conversion Shares and 5,227,001 Additional Class A Conversion Shares for the period ended December 31, 2023 and March 31, 2024, respectively, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, upon the closing of this offering, (e) the payment of \$5.6 million of cash dividends on certain shares of our convertible preferred stock accrued through December 31, 2023 as if such payment had occurred on December 31, 2023 and March 31, 2024, as applicable, (f) the automatic conversion of all of our nonvoting common stock into 5,069,477 shares of Class A common stock, which will occur upon the closing of this offering, (g) the net issuance of 2,527,923 shares of Class A common stock for each of the periods ended December 31, 2023 and March 31, 2024, upon the RSU Net Settlement, the issuance of 10,530,075 shares and 10,724,524 shares of Class A Common Stock for the period ended December 31, 2023 and March 31, 2024, respectively, upon the Additional RSU Settlement and the recognition of associated stock-based compensation expense of approximately \$475.3 million and \$478.9 million related to the vesting of RSUs outstanding as of December 31, 2023 and March 31, 2024, respectively, as further described in Note 10 to our consolidated financial statements included elsewhere in this prospectus, (h) the Warrant Net Exercise, and (i) the filing and effectiveness of our amended and restated certificate of incorporation, which will occur upon the closing of this offering. See “Prospectus Summary—The Offering—Additional Class A Conversion Shares” for a description of the Additional Class A Conversion Shares, as the number of Additional Class A Conversion Shares that will be issued depends on the initial public offering price of our Class A common stock.

	March 31, 2024		
	Actual	Pro Forma ⁽¹⁾ (in thousands) (unaudited)	Pro Forma As Adjusted ⁽²⁾⁽³⁾
Consolidated Balance Sheet Data:			
Cash, cash equivalents and restricted cash	\$ 80,792	\$ 275,167	\$ 565,982
Total assets	469,272	663,647	946,245
Working capital ⁽⁴⁾	57,039	259,757	546,426
Redeemable convertible preferred stock	1,134,802	—	—
Total stockholders' (deficit) equity	(1,474,425)	(136,905)	149,764

- (1) The pro forma consolidated balance sheet data gives effect to (a) the Series B Preferred Stock Conversion and Transfer resulting in 5,043,789 shares of Class B common stock outstanding immediately following the consummation of this offering, (b) the issuance and sale of 3,489,981 shares of Series G-5 convertible preferred stock in April 2024 as if such issuance and sale had occurred on March 31, 2024, (c) the Preferred Stock Conversion resulting in the issuance of 66,935,254 shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, upon the closing of this offering, (d) the Additional Class A Conversion Share

Issuance, resulting in the issuance of 5,227,001 Additional Class A Conversion Shares as of March 31, 2024, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, upon the closing of this offering, (e) the payment of \$5.6 million of accrued cash dividends on certain shares of our convertible preferred stock on June 4, 2024 as if such payment had occurred on March 31, 2024, (f) the automatic conversion of all of our nonvoting common stock into 5,069,477 shares of Class A common stock, which will occur upon the closing of this offering, (g) the net issuance of 2,527,923 shares of Class A common stock upon the RSU Net Settlement as of March 31, 2024, the issuance of 10,724,524 shares of Class A common stock upon the Additional RSU Settlement as of March 31, 2024, and the recognition of stock-based compensation expense of approximately \$478.9 million related to the vesting of RSUs outstanding as of March 31, 2024, as further described in Note 10 to our consolidated financial statements included elsewhere in this prospectus, (h) the Warrant Net Exercise, and (i) the filing and effectiveness of our amended and restated certificate of incorporation, which will occur upon the closing of this offering, and See “Prospectus Summary—The Offering” for a description of the Additional Class A Conversion Shares, as the number of Additional Class A Conversion Shares that will be issued depends on the initial public offering price of our Class A common stock.

- (2) The pro forma as adjusted consolidated balance sheet data reflects (a) the pro forma adjustments set forth in footnote (1) above, (b) our receipt of \$365.3 million in estimated net proceeds from the sale of shares of Class A common stock that we are offering at an assumed initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, after deducting underwriting discounts and commissions and estimated offering expenses payable by us (which offering expenses exclude \$4.1 million of deferred offering costs that have been previously paid as of March 31, 2024, but include \$4.1 million for deferred offering costs accrued and unpaid as of March 31, 2024 and \$2.3 million of deferred offering costs not yet accrued or paid as of March 31, 2024) and (c) the use of approximately \$74.5 million of the net proceeds from this offering to pay federal and state tax withholding and remittance obligations related to the RSU Net Settlement.
- (3) Each \$1.00 increase (decrease) in the assumed initial public offering price of \$36.00 per share of Class A common stock, the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase (decrease) each of our pro forma as adjusted cash, cash equivalents and restricted cash, total assets, working capital and total stockholders’ (deficit) equity by approximately \$10.3 million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting the estimated underwriting discounts and commissions. Similarly, each increase (decrease) of 1,000,000 shares in the number of shares of Class A common stock offered by us would increase (decrease) each of our pro forma as adjusted cash, cash equivalents and restricted cash, total assets, working capital and total stockholders’ (deficit) equity by \$33.5 million, assuming the assumed initial public offering price of \$36.00 per share of Class A common stock remains the same, and after deducting the estimated underwriting discounts and commissions.
- (4) Working capital is defined as current assets less current liabilities.

RISK FACTORS

Investing in our Class A common stock involves a high degree of risk. You should consider and carefully read all of the risks and uncertainties described below, as well as other information included in this prospectus, including our consolidated financial statements and related notes appearing elsewhere in this prospectus, before making an investment decision. The risks described below are not the only ones we face. The occurrence of any of the following risks or additional risks and uncertainties not presently known to us or that we currently believe to be immaterial could materially and adversely affect our business, financial condition, or results of operations. In such case, the trading price of our Class A common stock could decline, and you may lose some or all of your original investment.

Risks Related to Our Business and Strategy

We have incurred significant losses since inception, we may continue to incur losses in the future, and we may not be able to generate sufficient revenue to achieve and maintain profitability.

We have incurred significant losses since our inception. For the years ended December 31, 2022 and 2023 and the three months ended March 31, 2023 and 2024, we incurred net losses of \$289.8 million, \$214.1 million, \$54.4 million and \$64.7 million, respectively. As of March 31, 2024, we had an accumulated deficit of \$1.5 billion. To date, we have financed our operations principally from the sale of stock and convertible securities, and revenue from our Genomics and Data businesses. We have devoted substantially all of our resources to the development and commercialization of our Platform and current products and to research and development activities related to Platform development and future products, including regulatory initiatives to obtain marketing approval for our diagnostic tests, and sales and marketing activities for our Genomics and Data businesses. We will need to generate substantial revenue to achieve and then sustain profitability, and even if we achieve profitability, we cannot be sure that we will remain profitable for any period of time.

Our current or future products may not achieve or maintain sufficient commercial market acceptance.

We believe our commercial success is dependent upon our ability to continue to successfully market and sell our current Genomic diagnostics products to continue to grow our Data business by expanding our current relationships and developing new relationships with clinicians and pharmaceutical and biotechnology customers, and to develop and commercialize new products based on our Platform, including by expanding our Genomics product line to new disease areas and by advancing our existing and future AI Applications. Our ability to achieve and maintain sufficient commercial market acceptance of our existing and future products will depend on a number of factors, including:

- our ability to increase awareness of our Genomics and AI Applications diagnostic tests and other AI Applications, including new product offerings as they become available;
- the rate of adoption and/or endorsement of our Genomics and AI Applications diagnostic tests and AI Applications by clinicians, pharmaceutical and biotechnology companies, KOLs, and advocacy groups;
- the timing and scope of obtaining any necessary approvals by regulatory agencies, including the FDA, for our diagnostic tests, any software offerings, AI Applications, or any features of our Platform, in each case, that may be subject to regulatory oversight;
- our ability to obtain positive coverage decisions for our tests from additional commercial payers and to broaden the scope of indications included in such coverage decisions;
- our ability to obtain reimbursement and expanded coverage from government payers, including Medicare;
- our ability to increase demand for our Data business, including by expanding our database of de-identified patient information and increasing the utility of our product offerings;
- our ability to successfully expand beyond oncology into neuropsychiatry, cardiology, radiology, and other indications;

Table of Contents

- our ability to build and maintain robust data sets with respect to patient populations in geographic regions that we may seek to enter in the future;
- the impact of our investments in Platform development, product innovation and commercial growth;
- public perception of our products, those of our competitors and the industry in which we operate, including our ability to avoid adverse publicity from defects or errors; and
- our ability to further validate our Platform through clinical research and accompanying publications.

We cannot assure that we will be successful in addressing each of these criteria or other criteria that might affect the market acceptance of our products. If we are unsuccessful in achieving and maintaining sufficient market acceptance of our products, our business, financial condition and results of operations will suffer.

Our operating results may fluctuate significantly, which makes our future operating results difficult to predict and could cause our operating results to fall below expectations or any guidance we may provide.

Our quarterly and annual operating results may fluctuate significantly, which makes it difficult for us to predict our future operating results. Because we plan to operate our business with a long-term focus, these fluctuations may be more pronounced than those experienced by other companies that operate with a shorter-term focus. These fluctuations may occur due to a variety of factors, many of which are outside of our control, including, but not limited to:

- the timing and cost of, and level of investment in, research, development, regulatory approval and commercialization activities relating to our Platform and products, which may change from time to time;
- the volume and customer mix of our Genomics and AI Applications diagnostic testing, AI Applications, and other products;
- the start and completion of projects in which our Data and Services products are utilized;
- the introduction of new products or product enhancements by us or others in our industry;
- coverage and reimbursement policies with respect to our products and products that compete with our products;
- expenditures that we may incur to acquire, develop or commercialize additional products and technologies;
- changes in governmental regulations, including with respect to privacy and data security and medical device regulation, and our compliance therewith, or in the status of our regulatory approvals or applications;
- future accounting pronouncements or changes in our accounting policies;
- developments or disruptions in the business and operations of our clinical, commercial and other partners;
- the impact of natural disasters, political and economic instability, including wars (such as the armed conflicts between Russia and Ukraine and the hostilities in the Middle East), terrorism, and political unrest, epidemics or pandemics, boycotts, curtailment of trade and other business restrictions; and
- general market conditions, including high and rising inflation rates, high interest rates, government bank closures, liquidity concerns at other financial institutions, and other factors, including factors unrelated to our operating performance or the operating performance of our competitors.

Additionally, it is difficult to predict the amounts, if any, we will be able to collect for our diagnostic tests from commercial payers. We are a participating network provider in a small number of commercial payers from whom we receive reimbursement for our diagnostic tests. Payers determine the amount they are willing to reimburse us for tests. We have provided testing to patients with many disease types and indications, most of the

[Table of Contents](#)

time as a non-participating provider. Even when payers have paid a claim, they may elect at any time to review previously paid claims for overpayment against these claims. While we have not experienced significant retroactive adjustments to date, in the event of an overpayment determination, the payer may offset the amount they determine they overpaid against amounts they owe us on current claims. We have limited leverage to dispute these retroactive adjustments and we cannot predict when, or how often, a payer might engage in these reviews. A significant amount of these offsets by one or more payers in any given quarter could have a material effect on our results of operations and cause them to fall below expectations or guidance we may provide. Due to the inherent variability and unpredictability of the reimbursement landscape, including related to the amount that payers reimburse us for any of our tests, previously recorded revenue adjustments are not indicative of future revenue adjustments from actual cash collections, which may fluctuate significantly.

In addition, the demand for our Genomics and Data and Services products will depend in part upon the research and development and clinical budgets of pharmaceutical and biotechnology customers, which are impacted by factors beyond our control, such as:

- changes in government programs (such as the National Institutes of Health) that provide funding to research institutions and companies;
- macroeconomic conditions (including any impact of unforeseen events such as the armed conflicts between Russia and Ukraine and the hostilities in the Middle East), the political climate and the impact of public health emergencies such as the COVID-19 pandemic, high and rising inflation rates, high interest rates, government closures of banks and liquidity concerns at other financial institutions;
- changes in the regulatory environment;
- differences in budgetary cycles;
- competitor products or pricing;
- market-driven pressures to consolidate operations and reduce costs; and
- market acceptance of relatively new products.

Our operating results may fluctuate significantly due to reductions and delays in research and development or clinical expenditures by these customers. Further, many of our data licensing agreements allow us to deliver data to our customers over a period of time, which can span a year or longer. Revenue pursuant to our data licensing agreements is recognized upon delivery of the data to the customer, upon completion of performance obligations for related services, or ratably over time in the case of subscriptions. The actual timing of data deliveries can be based on a variety of factors, including, but not limited to, the customer's requirements and/or our technological, operational, and human capital capacity; in addition, management assesses relevant contractual terms in contracts with customers and applies significant judgment in identifying and accounting for all terms and conditions in certain contracts.

The cumulative effects of the factors discussed above could result in large fluctuations and unpredictability in our quarterly and annual operating results. As a result, comparing our operating results on a period-to-period basis may not be meaningful. Investors should not rely on our past results as an indication of our future performance.

This variability and unpredictability could also result in our failing to meet the expectations of industry or financial analysts or investors for any period. If our revenue or operating results fall below the expectations of analysts or investors or below any guidance we may provide, or if the guidance we provide is below the expectations of analysts or investors, the price of our common stock could decline substantially. Such a stock price decline could occur even when we have met any previously publicly stated guidance we may provide.

The success of our business depends on our continued access to, and ability to monetize, de-identified patient data.

Our business relies on our ability to obtain, process, monetize and distribute highly regulated data in the healthcare industry, in a manner that complies with applicable laws, regulations and contractual and

[Table of Contents](#)

technological restrictions. The data that we collect through the provision of Genomics tests and through other sources is critical to our ability to offer our Data and AI Applications products and services. Our Platform also includes proprietary software and dedicated data pipelines that create a network of healthcare institutions that supply us with complex multimodal data. Further, we rely on certain collaborations and licensing agreements to access important data. The success of our business depends on our continued access to, and ability to monetize, this internal and external de-identified patient data. As we seek to expand our business into additional disease areas and geographies, we will also need to be successful in building and maintaining sufficiently large relevant data sets and obtaining the permissions necessary to de-identify and use that data for commercial purposes.

Our ability to maintain, expand and monetize our datasets are subject to a number of factors, many of which are outside of our control. With respect to data included in our Data and AI Applications products, we rely on a combination of the statutory rights available to us as a HIPAA covered entity and as a HIPAA business associate. As a HIPAA covered entity, we utilize data generated through our provision of Genomic tests. As a HIPAA business associate, we may rely on healthcare providers to obtain the requisite consents from their patients, with whom we may have no direct contact, to use the de-identified data that we generate in the provision of our other offerings to the providers, or that we generate from the protected health information, or PHI, we obtain from providers. More broadly, the failure by us or our data suppliers and processors to obtain patient data in a compliant manner could have a harmful effect on our ability to use and disclose data which in turn could impair our functions and operations, including our ability to share data with third parties or incorporate it into our products. In addition, the use, processing and distribution of patient data may require us or our data suppliers and processors to obtain consent from third parties or follow additional laws, regulations or contractual and technological restrictions that apply to the healthcare industry. These requirements could interfere with our ability to deploy our products, prevent creation of new products, or otherwise limit data-driven activities that benefit us. Moreover, due to lack of valid notice, sufficient consents or waiver, we may be subject to claims or liability for use or disclosure of data or other information.

We are also dependent on the healthcare institutions within our network continuing to provide us with broad access to data to multimodal data to support the robustness of our Genomics tests and other offerings, as well as on maintaining our collaborations with ASCO, ONCare Alliance and similar organizations, and entering into similar collaborations with other organizations in the future, particularly as we attempt to expand into other disease areas. These third parties may have interests that diverge from our interests, including a desire to monetize their data in different ways, and there can be no assurance that we will be successful in maintaining and growing our datasets. Further, our arrangements with some of these third parties are not exclusive, which could allow such parties to provide data to our competitors, thereby adversely impacting our ability to offer differentiated products and services. Our practice of making available to providers the raw data from our Genomics testing along with corresponding clinical data we may have structured as part of providing testing also may allow those providers to use data in ways that may be harmful to our business interests.

The use, processing and distribution of patient data is also the subject of complex, interconnected and frequently changing laws and regulations in the United States and globally. We have policies and procedures in place to address the proper handling and use of data, but could face claims that our practices are insufficient, or occur in a manner not permitted under applicable laws or our agreements with or obligations to data providers, patients or other third parties. These claims or liabilities and other failures to comply with applicable requirements could subject us to unexpected costs and adversely affect our business, financial condition and results of operations. Further, any actual or perceived failure to comply with applicable privacy and data security laws could have an adverse impact on the willingness of the third parties on whom we rely for access to data to continue to provide us with such data.

The continued adoption of our products and services is dependent on a number of factors, many of which are interrelated.

Our ability to execute our growth strategy and become profitable is highly dependent on a number of factors, many of which are interrelated.

[Table of Contents](#)

Continued adoption and use of our Genomics product line will depend on several factors, including the prices we charge for our tests, the scope of coverage and amount of reimbursement available from third-party payers for our tests, the availability of clinical data that support the value of our tests and the inclusion of our tests in industry treatment guidelines. In addition, many clinicians, hospital systems and pharmaceutical companies have existing relationships with companies that develop molecular diagnostic tests, including our competitors, and may continue to use their tests instead of ours. Despite our business development efforts, it could be difficult, expensive and/or time-consuming for healthcare providers to switch diagnostic tests for their patients, and our tests may not be widely accepted by physicians, if at all, which could in turn hinder the growth of sales of our tests. If we are unable to achieve commercial success for our tests, our business, financial condition and results of operations would be materially and adversely affected. We are also particularly dependent on our oncology tests, which accounted for 46% and 63% of our revenue in the years ended December 31, 2022 and 2023, respectively. We cannot assure that our oncology tests will continue to maintain or gain market acceptance, and any failure to do so would materially harm our business, financial condition and results of operations.

Continued adoption of and use of our Data and Services products will depend, in part, on our ability to maintain relationships and to enter into new relationships with pharmaceutical and biotechnology customers and provide relevant data to such customers for outcomes research, companion diagnostic development, novel target discovery and validation, among other uses. This can be difficult due to many factors, including the type of data required and our ability to deliver it to our pharmaceutical and biotechnology customers' satisfaction. Our pharmaceutical and biotechnology customers may decide to decrease or discontinue their use of our Insights product due to changes in their research and product development plans, failures in their clinical trials, financial constraints, or other circumstances outside of our control. Furthermore, pharmaceutical and biotechnology companies may decline to do business with us or decrease or discontinue their use of our data due to a strategic collaboration with any of our competitors. We invest resources in seeking to develop relationships with pharmaceutical and biotechnology companies regarding potential commercial opportunities on an ongoing basis. There can be no assurance that any of this investment will result in a commercial agreement, that the resulting relationship will be successful, or that the data we provide as part of the engagement will produce successful outcomes. If we cannot maintain our current relationships, or enter into new relationships, with pharmaceutical and biotechnology companies, our product development could be delayed and revenue and results of operations could be adversely affected.

The scope and robustness of the Data and Services and AI Applications products that we can offer our customers also depend significantly on the continued success of our Genomics product line, as the data that we collect through genomic testing is an essential component of our Data and Services and AI Applications products. Further, we believe that growth in the use of our Data and Services products will help drive awareness and adoption of our Genomics product line, which in turn will drive further growth within our Data and Services and AI Applications product lines. However, there can be no assurance that we will realize these synergies.

Our limited operating history and rapid growth make it difficult to evaluate our future prospects and the risks and challenges we may encounter.

We were founded in 2015 and have experienced rapid growth in revenue, adoption of our products and services, testing volume, size of our datasets, clinical trial matches and other metrics that we believe are important to assessing our business. In addition, we operate in highly competitive markets characterized by rapid technological advances and our business has evolved, and we expect it to continue to evolve, over time to remain competitive. Our limited operating history, evolving business, rapid growth and ambitious goals make it difficult to evaluate our future prospects and the risks and challenges we may encounter, and may increase the risk that we will not continue to grow at or near historical rates. Further, these factors may make it difficult for us to achieve our stated milestones and goals, and to accurately project the future performance of our business. For example, we may never realize the potential benefits of our technology as contemplated elsewhere in this prospectus, including the section titled "Prospectus Summary—Long-Term Vision."

If we fail to address the risks and difficulties that we face, including those described elsewhere in this "Risk Factors" section, our business, financial condition and results of operations could be adversely affected. We have

[Table of Contents](#)

encountered in the past, and will encounter in the future, risks and uncertainties frequently experienced by growing companies with limited operating histories in rapidly changing industries. If our assumptions regarding these risks and uncertainties, which we use to plan and operate our business, are incorrect or change, or if we do not address these risks successfully, our results of operations could differ materially from our expectations and our business, financial condition and results of operations could be adversely affected.

We will need to raise additional capital to fund our existing operations, develop our Platform, commercialize new products or expand our operations.

We will need to raise additional capital in the future to expand our business, meet existing obligations, pursue acquisitions or strategic investments, or take advantage of financing opportunities or for other reasons, including to:

- increase our sales and marketing efforts to drive market adoption of our current products and services, and address competitive developments;
- fund development and marketing efforts of our products under development or any other future products we may develop;
- acquire, license or invest in technologies;
- acquire or invest in complementary businesses or assets; and
- finance capital expenditures and general and administrative expenses.

Our present and future funding requirements will depend on many factors, including:

- our ability to achieve revenue growth and favorable gross profits;
- our rate of progress in establishing payer coverage and reimbursement arrangements with domestic and international commercial payers and government payers;
- the cost of expanding our laboratory operations and product offerings, including our sales and marketing efforts;
- our rate of progress in, and costs of our sales and marketing activities associated with, establishing adoption of and reimbursement for our current products, including our diagnostic tests and our data analytics products;
- the rate at which we choose to advance, rate of progress in, and costs of our research and development activities associated with, products in development;
- the effect of competing technological and market developments;
- costs related to our international expansion; and
- the potential costs of and delays in product development as a result of any existing or new regulatory oversight applicable to our products.

We have no committed sources of capital. We may seek to sell equity or convertible securities, enter into a credit facility or another form of third-party funding, or seek other debt financing. The various ways we could raise additional capital carry potential risks. If we raise funds by issuing equity or convertible securities, dilution to our stockholders could result. Any preferred equity securities issued also could provide for rights, preferences or privileges senior to those of holders of our common stock. If we raise funds by issuing debt securities, those debt securities would have rights, preferences and privileges senior to those of holders of our common stock. The terms of debt securities issued or borrowings pursuant to a credit agreement could impose significant restrictions on our operations. If we raise funds through collaborations and licensing arrangements, we might be required to relinquish significant rights to our Platform or products or grant licenses on terms that are not favorable to us. These alternatives of raising additional capital may not be available to us on acceptable or commercially reasonable terms, if at all, or in amounts sufficient to meet our needs. The failure to obtain any required future financing may require us to reduce or eliminate certain existing operations and could contribute to negative market perceptions about us or our securities.

Our AI Applications product line is nascent.

As of March 31, 2024, we had limited commercialized algorithms within our AI Applications product line. Revenue generated from AI Applications is reported within our Data and Services product line and was \$1.4 million and \$5.5 million for the years ended December 31, 2022 and 2023, respectively, and less than \$1.0 million for each of the three months ended March 31, 2023 and 2024, which represents less than 1.5% of our total revenue in each period. We have a number of additional Algos in development and we may not be successful in developing and commercializing these or future Algos, or in attaining our other development targets. Further, the scope and robustness of the AI Applications that we can offer our customers depend significantly on the continued success of our Genomics product line and access to third-party data, of which there can be no assurance. We also cannot accurately estimate how our future AI Applications will be priced, whether reimbursement can be obtained or whether we will generate any revenue from such AI Applications. Further, the use of diagnostics that are entirely algorithmic in nature is novel and today represents only a small proportion of the diagnostics market. The use of algorithmic diagnostics may also be subject to existing and entirely new regulations that may substantially impact their adoption, use, reimbursement and ongoing viability. While we believe AI Applications represent a significant long-term opportunity for us, there can be no assurances that a robust and sustained market for such diagnostics will develop or that we will successfully compete in any such market.

New product development and commercialization involve a lengthy and complex process and we may be unable to develop or commercialize new products on a timely basis, or at all.

Products that are under development have taken time and considerable resources to develop, and we may not be able to complete the development and commercialization of such products on a timely basis, or at all.

Before we can commercialize any new Genomics or AI Applications diagnostic products, we will need to expend significant funds in order to:

- conduct substantial research and development, including validation studies and, in some cases, clinical trials;
- further develop and scale our laboratory or algorithmic processes to accommodate diagnostic tests in additional disease areas; and
- further develop and scale our infrastructure to be able to analyze increasingly large amounts of data.

Our diagnostic product development process involves a high degree of risk, and product development efforts may fail for many reasons, including:

- failure of the diagnostic product to perform as expected, including defects and errors;
- lack of validation data or validation activities that subsequently may be challenged or questioned; or
- failure to demonstrate the clinical utility of the diagnostic test.

Expanding the offerings of our Data business is also a speculative and risky endeavor and may require us to:

- acquire additional access to patient healthcare information that is relevant to the products we offer;
- correctly identify customer needs and preferences and predict future needs and preferences;
- allocate our research and development funding to areas with higher growth prospects; and
- anticipate and respond to our competitors' development of new products and technological innovations.

Our Platform development plan involves using data and analytical insights generated from our current products to foster research and development in our future products. However, if we are unable to generate additional or compatible data and insights, then we may not be able to advance our products under development as quickly, or at all, or without significant additional investment.

[Table of Contents](#)

As we develop our products, we have made and will have to make significant investments in Platform development, marketing and selling resources, which could adversely affect our future cash flows. We may also rely on third parties to develop new products that we may license and include in our overall offering, particularly with respect to our AI Applications business, and we may exert limited or no control over such development efforts.

In addition, in our development and commercialization plans for our business lines, we may forego other opportunities that may provide greater revenue or be more profitable. For example, while we expect to provide diagnostic and data technologies to pharmaceutical and biotechnology companies (including companies in which our Chief Executive Officer, Founder, and Chairman, Eric Lefkofsky, or our other executive officers, directors or significant stockholders may have significant or controlling voting and economic interests) developing therapeutics for various diseases, including cancers, we do not currently expect to conduct development of therapeutics ourselves. As a result, even if our development efforts result in commercially viable products, our business and results of operations could underperform in comparison to our customers and competitors.

We may not be successful in updating or otherwise enhancing our Platform and products.

As of March 31, 2024, we had developed multiple genomics diagnostics tests across oncology, infectious diseases, and neuropsychiatry, as well as algorithmic diagnostic tests across oncology and cardiology. A major part of our strategy is bringing new high-value enhancements to our customers through updates to our Platform and existing products, which may include expanding our existing products with additional features, applications and data modalities. We expect to make significant investments to advance these efforts.

Enhancing our Platform and products is a speculative and risky endeavor. Features, applications and data modalities that initially show promise may fail to achieve the desired results or may not achieve acceptable levels of analytical accuracy or utility. We may need to alter our products in development and repeat studies before we identify a potentially successful update. Product development is expensive, may take years to complete and can have uncertain outcomes. Failure can occur at any stage of the development. Even if we confirm that our products can be successfully updated for additional features, applications and data modalities, those features, applications and data modalities may be limited in scope to only some diseases, disease segments, patient markets or geographies. If, after development, an updated product appears successful, we may, depending on the nature of the update, need to obtain FDA's, EMA's and other regulatory bodies' clearances, authorizations or approvals before we can market the updated product. The FDA's and EMA's clearance, authorization or approval pathways are likely to require significant time and expenditures. The FDA, EMA or other applicable regulatory authority may not clear, authorize or approve any product update we develop and may even change the applicable regulations or the application of those regulations in ways that would impact our existing products or services, including our Platform. Even if we develop a product update that receives regulatory clearance, authorization or approval, we or our collaborators would need to commit substantial resources to commercialize, sell and market the updated product, which may never achieve significant market acceptance among various stakeholders and be commercially successful.

In addition, we generally sell our products in industries that are characterized by rapid technological changes, frequent new product introductions and changing industry standards. If we do not develop Platform and product enhancements based on technological innovation on a timely basis, our Platform and products may become obsolete over time and our financial and competitive position will suffer. Our success will depend on several factors, including our ability to:

- correctly identify customer needs and preferences and predict future needs and preferences;
- allocate our research and development funding to areas with higher growth prospects;
- anticipate and respond to our competitors' development of new products and technological innovations;

[Table of Contents](#)

- innovate and develop new technologies and applications, and acquire or obtain rights to third-party technologies that may have valuable applications in the markets we serve;
- successfully develop and commercialize new technologies and applications in a timely manner; and
- convince customers to adopt new technologies and applications.

The expenses or losses associated with unsuccessful expansion of our Platform could adversely affect our business, financial condition and results of operations.

If we are not successful in leveraging our Platform to identify, develop and commercialize additional genomic and algorithmic tests, our ability to expand our business and achieve our strategic objectives would be impaired.

A key element of our strategy is to leverage our Platform to identify, develop and potentially commercialize genomic and algorithmic tests beyond our current portfolio to diagnose various types of diseases. Identifying new genomic and algorithmic tests requires substantial technical, financial and human resources, whether or not any genomic or algorithmic tests are ultimately developed and commercialized. We may pursue what we believe is a promising opportunity to leverage our Platform only to discover that certain of our risk or resource allocation decisions were incorrect or insufficient, or that individual genomic or algorithmic tests have limitations that were previously unknown or underappreciated.

Our strategy of pursuing the value of our Platform to develop genomic and algorithmic tests over a long time horizon and across a broad array of human diseases may not be effective. In the event that material decisions in any of these areas turn out to be incorrect or sub-optimal, we may experience a material adverse impact on our business and ability to fund our operations, and we may never realize what we believe is the potential of our Platform for developing and commercializing genomic and algorithmic tests.

If our existing and new products fail to achieve and sustain sufficient scientific acceptance, we will not generate expected revenue and our prospects may be harmed.

The life sciences scientific community is comprised of a small number of early adopters and key opinion leaders who significantly influence the rest of the community. The success of life sciences products is due, in large part, to acceptance by the scientific community and their adoption of certain products as best practice in the applicable field of research. The current system of academic and scientific research views publishing in a peer-reviewed journal as a measure of success. In such journal publications, the researchers will describe not only their discoveries but also the methods and typically the products used to fuel such discoveries. Mentions in peer-reviewed journal publications is a good barometer for the general acceptance of our products as best practices. Ensuring that early adopters and key opinion leaders publish research involving the use of our products is critical to ensuring our products gain widespread acceptance and market growth. Continuing to maintain good relationships with such key opinion leaders is vital to growing our market. The number of times our products were mentioned in peer-reviewed publications has increased significantly in recent years. As of March 31, 2024, our products have been mentioned in 126 peer-reviewed articles published in major journals, including 93 that were Tempus-authored. We cannot assure investors, however, that our products will continue to be mentioned in peer-reviewed articles with any frequency or that any new products that we introduce in the future will be mentioned in peer-reviewed articles. In addition, self-authored journal publications that mention our products may present an actual, potential or perceived conflict of interest and, therefore, the number of publications in which our products are mentioned may not be indicative of the level of acceptance of our products. If too few researchers describe the use of our products, too many researchers shift to a competing product and publish research outlining their use of that product or too many researchers negatively describe the use or usability of our products in publications, it may drive existing and potential customers away from our products, which could harm our operating results. Any decrease in the frequency at which our products are mentioned in peer reviewed journals, or a decline in the quality of such publications, may negatively impact our prospects.

Our diagnostic products, or our competitors' diagnostic products, could have defects or errors or otherwise fail to meet the expectations of patients, physicians and third-party payers; in such cases our operating results, reputation and business could suffer.

The success of our Genomics and AI Applications products depends in part on patients', physicians' and third-party payers' confidence that our Platform can provide reliable, high-quality intelligent diagnostics that will improve clinical outcomes and lower healthcare costs, as well as our ability to comply with applicable privacy and data security requirements. We believe that patients, physicians and third-party payers are likely to be particularly sensitive to our use of data, as well as product defects and errors in the use of our products, including if our products fail to detect genomic alterations or other clinical relevant information with high accuracy from samples, if we fail to list or inaccurately include certain treatment options and available clinical trials in our test reports, or if we fail to comply with applicable privacy and data security laws, and there can be no guarantee that we will be successful in this regard. Furthermore, if our competitors' diagnostic products do not perform to expectations or if they fail to comply with applicable laws and regulations, it may result in lower confidence in us as well. As a result, the failure of our diagnostic products or our competitors' diagnostic products to perform as expected, or failure by us or our competitors to comply with applicable laws and regulations, could significantly impair our operating results and our reputation. In addition, we may be subject to legal claims arising from any such failures, including claims that defects or errors in our diagnostic products led to injury or death. Confidence in us, as well as the strength of our brand and reputation, could also be eroded by perceived failures by us or our competitors, even absent any evidence of failure or wrongdoing.

If we are unable to support demand for our current and future Genomics product line, including ensuring that we have adequate capacity to meet increased demand, or we are unable to successfully manage our anticipated growth, our business could suffer.

As the volume of our Genomics product line sales grows, we will need to continue to increase our workflow capacity for sample intake, customer service, billing and general process improvements, expand our internal quality assurance program and extend our Platform to support comprehensive genomic analysis at a larger scale within expected turnaround times. We will need additional certified laboratory scientists and other scientific and technical personnel to process higher volumes of our Genomics tests. Portions of our process are not automated and will require additional personnel to scale. We will also need to purchase additional equipment, some of which can take several months or more to procure, set up and validate, and increase our software and computing capacity to meet increased demand. There can be no assurance that any of these increases in scale, expansion of personnel, equipment, software and computing capacities or process enhancements will be successfully implemented, if at all, or that we will have adequate space in our laboratory facility or be able to secure additional facility space to accommodate such required expansion.

As we commercialize additional Genomics products, we will need to incorporate new equipment, implement new technology systems and laboratory processes, and hire new personnel with different qualifications. Failure to manage this growth or transition could result in turnaround time delays, higher product costs, declining product quality, deteriorating customer service and slower responses to competitive challenges. A failure in any one of these areas could make it difficult for us to meet market expectations for our products and could damage our reputation and the prospects for our business.

Our ability to attract and retain candidates to support the expansion of our Genomics and other products may be influenced by factors outside our control, or factors that we can control but which we fail to execute. For example, global labor shortages, our compensation and benefits offerings, attempts at unionization by our employees, and other factors may impact our ability to recruit, hire, train, and retain employees, which will further impact our ability to meet our growth and expansion goals.

In addition, our ability to manage our growth properly will require us to continue to improve our operational, financial and management controls, as well as our reporting systems and procedures. The time and

resources required to implement these new systems and procedures is uncertain and could be demanding, and failure to complete this in a timely and efficient manner could adversely affect our business, financial condition and results of operations.

If third-party payers, including commercial payers and government healthcare programs, do not provide coverage of, or adequate reimbursement for, or reverse or change their policies related to our tests, our business, financial condition and results of operations will be negatively affected.

As of December 31, 2023, we had received payment on approximately 50% of our clinical oncology next generation sequencing, or NGS, tests across all payors performed from January 1, 2021 through December 31, 2022. We calculated this metric on a trailing basis based on payor adjudication timing. However, we continued to perform our NGS tests through December 31, 2023. For the years ended December 31, 2022 and 2023, our average reimbursement for NGS tests in oncology was approximately \$916 and \$1,452, respectively. In addition, we receive a substantial portion of our diagnostic revenue from a limited number of third-party commercial payers, most of which have not contracted with us to be a participating provider. We also receive reimbursement from Medicare for claims submitted with respect to our various diagnostic tests. Approximately 28% and 26% of our clinical tests were for Medicare beneficiaries in the years ended December 31, 2022 and 2023, respectively. Our revenue and commercial success depend on achieving coverage and reimbursement for our tests from payers, including both commercial and government payers. If payers do not provide coverage of, or do not provide adequate reimbursement for our tests, we may need to seek payment from the patient, which may adversely affect demand for our tests.

In addition, because our Genomics and AI Applications diagnostic tests represent new approaches to the diagnosis of diseases, we cannot accurately estimate how they would be priced, whether reimbursement could be obtained or any potential revenue generated. Coverage determinations by a payer may depend on a number of factors, including but not limited to a payer's determination that a test is appropriate, medically necessary or cost-effective. If we are unable to provide payers with sufficient evidence of the clinical utility and validity of our test, they may not provide coverage, may provide limited coverage or may terminate coverage, which will adversely affect our business, financial condition and results of operations. To the extent that more competitors enter our markets, the availability of coverage and the reimbursement rate for our tests may decrease as we encounter pricing pressure from our competitors or as payers decide based on other factors to lower the reimbursement rate for our tests.

Each payer makes its own decision as to whether to provide coverage for our tests, whether to enter into a contract with us and the reimbursement rate for a test. Negotiating with payers is time-consuming, and payers often insist on their standard form contracts, which may allow payers to terminate coverage on short notice, impose significant obligations on us and create additional regulatory and compliance hurdles for us. There can be no guarantee that a payer will provide adequate coverage or reimbursement for our tests or that we can reach an agreement with the payer on reasonable terms without being subject to additional regulatory and compliance risks. In cases where there is no coverage, or we do not have a contracted rate for reimbursement with the payer, the patient is typically responsible for a greater share of the cost of the test, which may result in delay of revenue, increase collection costs or decrease the likelihood of collection. We maintain a financial assistance program under which we assess patient financial need and offer discounted or no-cost tests to certain patients who meet the financial and other eligibility criteria of the program. This may result in scrutiny by payers of our financial assistance program and could result in recoupment actions or termination of coverage of our tests.

Our claims for reimbursement have in the past been denied and may again in the future be denied, and we have needed, and again may need, to appeal such denials in order to get paid. Such appeals may not result in payment. Payers may perform audits of historically paid claims and attempt to recoup funds years after the funds were initially distributed if the payers believe the funds were paid in error or determine that our tests were medically unnecessary. If a payer's audit of our claims results in a negative finding, and we are unable to reverse the finding through appeal, any subsequent recoupment could result in a material adverse effect on our revenue. Additionally, in some cases commercial payers for whom we are not a participating provider may elect at any time to review claims previously paid and determine the amount they paid was excessive. In these situations, the payer typically notifies us of its decision and then offsets the amount it determines to be overpaid against

[Table of Contents](#)

amounts it owes us on current claims. We do not have a mechanism to dispute these retroactive adjustments, and we cannot predict when, or how often, a payer might engage in these reviews, as historic success and payments are not indicative of future success of and payments from such appeals.

Our efforts to become a participating provider of a number of commercial payers may not be successful. When we contract with a payer as a participating provider, reimbursements by the payer are generally made pursuant to a negotiated fee schedule and are limited to only covered indications or where prior approval has been obtained.

Although we are a participating provider with several commercial payers, some large commercial payers have issued non-coverage policies that consider tissue and liquid comprehensive genomic profile testing, including certain of our Genomics tests, as experimental or investigational. If we are not successful in obtaining coverage from such payers, or if other payers issue similar non-coverage policies, our business, financial condition and results of operations could be materially and adversely affected.

Coverage and reimbursement are ever changing, and we are not in control of how our competitors' coverage and pricing strategies are established. Some of our competitors have widespread brand recognition and substantially greater financial and technical resources and development, production and marketing capabilities than we do. Others may develop lower-priced, less complex tests that payers and healthcare professionals could view as functionally equivalent to our products, which could force us to lower the list price of our tests and impact our operating margins and our ability to achieve and maintain profitability. Payers may compare our products to our competitors and utilize them as precedents, which may impact our coverage and reimbursement. In addition, technological innovations that result in the creation of enhanced diagnostic tools that are more effective than ours may enable other clinical laboratories, hospitals, medical personnel or medical providers to provide specialized diagnostic tests similar to ours in a more patient-friendly, efficient or cost-effective manner than is currently possible.

In the United States, many significant decisions about reimbursement for new diagnostics are made by the Centers for Medicare & Medicaid Services, or CMS, which makes a national coverage determination, or NCD, as to whether and to what extent a new diagnostic will be covered and reimbursed under Medicare, although it frequently delegates this authority to local Medicare Administrative Contractors, or MACs, which may make a local coverage determination, or LCD, with respect to coverage and reimbursement. Private payers tend to follow Medicare to a substantial degree. During the year ended December 31, 2023, Medicare claims represented 26% of our clinical testing volume. Given we operate laboratories in multiple MACs and run both LDTs and an FDA-approved assay, the applicable reimbursement determination varies based on the assay being run and the locations where it is being processed. The rules and standards that CMS uses to determine reimbursement rates for our tests are frequently changing and subject to revision, which could have a material impact on our results.

For example, Medicare's NCD for NGS first established in 2018 and subsequently updated in 2020, states that NGS oncology tests (such as our Tempus|xT and Tempus|xF tests), would be covered by Medicare nationally if and when: (1) performed in a Clinical Laboratory Improvement Amendments, or CLIA, certified laboratory, (2) ordered by a treating physician, (3) the patient meets certain clinical and treatment criteria, including having recurrent, relapsed, refractory, metastatic, or advanced stages III or IV cancer, (4) the test is approved or cleared by the FDA as a companion in vitro diagnostic for an FDA approved or cleared indication for use in that patient's cancer, and (5) results are provided to the treating physician for management of the patient using a report template to specify treatment options. We believe that our xT CDX assay, which received FDA approval in April 2023, will meet the criteria for reimbursement under the NCD. The NGS NCD also states that each MAC may provide local coverage of other next-generation sequencing tests for cancer patients only when the test is performed by a CLIA-certified laboratory, ordered by a treating physician and the patient meets the same clinical and treatment criteria required of nationally covered next-generation sequencing tests under the NGS NCD. An NGS test is typically not covered by Medicare when cancer patients do not have the above-noted indications for cancer under either an NCD or LCD.

[Table of Contents](#)

National Government Services, Inc. is the local MAC that makes local coverage determinations, or LCDs, for tests conducted at our Chicago laboratory. The Local MAC has issued two LCDs related to genetic testing in cancer, each of which currently requires claims to be submitted under a single current procedural terminology, or CPT, code that describes the test. Because no CPT code comprehensively describes our NGS oncology tests, we have historically submitted claims using individual codes based on the cancer subtype profiled. On March 25, 2021, the Local MAC instructed us to submit our claims using a different designated CPT code and indicated that such claims would be individually reviewed. Subsequently, on July 23, 2021, the Local MAC issued revised instructions for CPT coding and further updated those instructions on July 29, 2021. Claims submitted under the March 2021 and July 2021 guidance were summarily denied and we are in the process of appealing these denials. The process is typically slow and costly, and multiple levels of appeal may be required for adjudication of outstanding claims.

On February 10, 2022, the Local MAC issued a revised LCD (L37810), and a corresponding Billing and Coding update (A56867). The increased scope of coverage provided for in the revised LCD will result in the CPT code they instructed us to begin billing in July 2021 being reimbursed at the prevailing Medicare rate for those tests which meet the revised coverage criteria. The modified LCD is effective April 1, 2022 and applies to genomic sequence analysis panel tests in the treatment of solid tumors, which primarily impacts our solid tumor assay, xT, given the modified scope of coverage in the revised LCD. We continue to monitor the impact the LCD has on the claims currently in the appeal process; however, the LCD has generally had a favorable impact on reimbursement for claims submitted after April 1, 2022.

Beginning January 1, 2023, a new CPT code went into effect covering full transcriptome testing when performed separately from DNA testing. Historically, our xT assay was actually comprised of two separate and distinct procedures, DNA and RNA. Given there was not an applicable CPT code for RNA, we did not bill that test. With the introduction of the new code, we now have two separate assays, one analyzing DNA – xT and one analyzing RNA – xR that are ordered and billed for separately. We requested that the Local MAC add the new CPT code to the LCD, which they did effective January 1, 2023.

Palmetto is the MAC jurisdiction that determines reimbursement for tests conducted at our Raleigh and Atlanta laboratories through the MolDx program. MolDx requires laboratories to complete a technical assessment process in order to secure reimbursement for tests run at labs in its jurisdiction. Upon receiving approval in the technical assessment process, assays are assigned a z-code and a price at which MolDx will reimburse claims. In conjunction with launching our Raleigh laboratory, we submitted a technical assessment for our xT assay in 2022 and our xF assay in 2023. We received approval on our xT assay in October 2023 and on our xF assay in March 2024.

In addition, pursuant to the regulations of CMS, we cannot bill Medicare directly for tests provided for Medicare beneficiaries in some situations. CMS adopted an exception to its laboratory date of service regulation, and if certain conditions are met, molecular testing laboratories such as us can rely on that exception to bill Medicare directly, instead of seeking payment from the hospital. If this exception is repealed or curtailed by CMS, or its laboratory date of service regulation is otherwise changed to adversely impact our ability to bill Medicare directly, our revenue could be materially reduced.

Furthermore, on September 27, 2023, the Centers for Medicare and Medicaid Services (CMS) published calendar year 2024 preliminary payment determinations for new and reconsidered codes on the Medicare clinical laboratory fee schedule (CLFS), including new codes that may apply to tests we offer through our Genomics business. In doing so, CMS rejected the recommendations from experts on the Clinical Diagnostic Laboratory Test (CDLT) Advisory Panel and recommended reimbursement rates for several new procedure codes describing genomic profiling tests that are substantially below our costs to perform them. Following a comment period, CMS revised its preliminary determination and assigned each of the new codes to gapfill – a process by which each of the individual MACs prices the codes and the resulting median price across the MACs becomes the price on the Medicare CLFS. We are currently participating in the gapfill process with the MACs with which we operate. On May 1, 2024, CMS posted the MAC-specific payment recommendations which indicated that the

[Table of Contents](#)

codes applicable to our tests would be reimbursed at the same or a higher level than they were previously reimbursed. These recommendations are currently open for public comment and CMS will publish the final MAC-specific amounts in September. If CMS ultimately prices the new codes at lower rates than they have previously reimbursed our tests at, such pricing decision may have a significant impact on our business, results of operations, financial condition and prospects. National Government Services, Inc. revised its coding guidance on February 5, 2024, informing laboratories that they should begin using the new molecular diagnostic CPT codes effective January 1, 2024 even though those codes are not priced because they are going through the gapfill process.

Some payers have implemented, or are in the process of implementing, laboratory benefit management programs, often using third-party benefit managers to manage these programs. The stated goals of these programs are to help improve the quality of outpatient laboratory services, support evidence-based guidelines for patient care and lower costs. The impact on laboratories, such as us, of active laboratory benefit management by third parties is unclear, and we expect that it would have a negative impact on our revenue in the short term. Payers may resist reimbursement for our tests in favor of less expensive tests, require pre-authorization for our tests, or impose additional pricing pressure on and substantial administrative burden for reimbursement for our tests. We expect to continue to focus substantial resources on increasing adoption of, and coverage and reimbursement for, our current tests and any future tests we may develop. We believe it may take several years to achieve broad coverage and adequate contracted reimbursement with a majority of payers for our tests. However, we cannot predict whether, under what circumstances, or at what price levels payers will cover and reimburse our tests. If we fail to establish and maintain broad adoption of, and coverage and reimbursement for, our tests, our ability to generate revenue could be harmed and our business, financial condition and results of operations could suffer.

If we are unable to obtain or maintain adequate reimbursement for our Genomics product line outside of the United States, our ability to expand internationally will be compromised.

A substantial portion of our Genomics product line revenues come from third-party payer reimbursement. In many countries outside of the United States, various coverage, pricing and reimbursement approvals are required for our tests to be available to patients in significant volume. We expect that it will take several years to establish broad coverage and reimbursement for our tests with payers in countries outside of the United States, and our efforts may not be successful.

Even if public or private reimbursement is obtained, it may cover competing tests, or the reimbursement may be limited to a subset of the eligible patient population or conditioned upon local performance of the tests or other requirements we may have difficulty satisfying.

Reimbursement levels outside of the United States may vary considerably from the domestic reimbursement amounts we receive. We may also be negatively affected by the financial instability of, and austerity measures implemented by, several countries in the European Union, or EU, and elsewhere.

Labor relations matters could have a material adverse effect on our business, reputation, prospects, results of operations and financial condition.

On February 8, 2024, the International Association of Machinists and Aerospace Workers, or IAM, District Lodge 8, filed a Petition for Election with the National Labor Relations Board, or the NLRB, to serve as the collective bargaining representative of certain of our laboratory employees located in Chicago, Illinois. On March 6 and 7, 2024, the NLRB held an election, at which the defined collective bargaining unit voted to unionize and for the IAM to serve as the collective bargaining representative. We have begun the process of negotiating a collective bargaining agreement with the IAM. We are unable to predict whether we will be successful in reaching a collective bargaining agreement, or the incremental cost and expense that may result from such efforts. In addition, to the extent we are unsuccessful, or if such efforts take longer than anticipated, impacted employees may threaten and/or engage in work stoppages and strikes, and our labor costs may continue to increase as a result. Even though we are currently unaware of other unionization efforts, it is possible that other employees may also seek to unionize. The unavailability of laboratory staff, or our inability to control labor costs related to these matters and future efforts to

unionize, could have a material adverse effect on our business, reputation, prospects, results of operations and financial condition.

We use AI in our products and services which may result in operational challenges, legal liability, reputational concerns and competitive risks.

AI is enabled by or integrated into our Platform and, as a result, our diagnostic and data products, and is therefore a significant element of our current business and our future strategy. As with many developing technologies, AI presents risks and challenges that could affect its further development, adoption, and use, and therefore our business. Many known and unknown risks to AI exist. Some of the currently known risks include accuracy, bias, toxicity, intellectual property infringement or misappropriation, data privacy and cybersecurity and data provenance. For example, our development and use of AI may result in the incorporation of third-party data, including personal, proprietary or confidential data, into our AI. If we do not have sufficient rights to use the data on which AI relies, we may incur liability through the violation of such laws, third-party privacy or other rights or contracts to which we are a party.

Additionally, regulation in the AI space is constantly changing, and may make it difficult to continue using our AI approach to diagnostics and data analysis. AI is the subject of evolving review by various U.S. governmental and regulatory agencies, including the SEC and the Federal Trade Commission, or the FTC, and various U.S. states and other foreign jurisdictions are applying, or are considering applying, their cybersecurity and data protection laws to AI, particularly generative AI, and/or are considering general legal frameworks on AI (such as proposals for the European Union to enact an Artificial Intelligence Act, or the AI Act, the latest proposed text of which provides for administrative fines of up to 35 million Euros or 7% of a company's total worldwide annual turnover for the preceding financial year, whichever is the higher). In addition, the use and deployment of AI presents complexities and challenges with respect to compliance with applicable laws and regulations, particularly because we are both a technology company and a healthcare provider of diagnostic testing services. Life sciences companies may underwrite or fund, in part, the development of AI algorithms, which may require us to disclose applicable funding sources and which may, as a result, slow the adoption of such technologies. Further, to the extent the output of an algorithm we develop or deploy recommends, directly or indirectly, the potential ordering of a product or service reimbursable by a federal healthcare program, we may encounter enforcement challenges even when such recommendations are based on objective clinical guidelines and criteria. If any such event were to occur, it could have a materially adverse impact on our business operations and reputation.

Additionally, algorithms may be flawed or biased, and datasets may be insufficient, of poor quality or contain biased information. Overcoming technical obstacles and correcting defects or errors could prove to be impossible or impracticable, and the costs incurred may be substantial and adversely affect our results of operations. If the diagnoses, determinations, recommendations, forecasts or analyses that our Platform's AI applications assist in producing are deficient or inaccurate, we could be subjected to competitive harm, potential legal liability and brand or reputational harm. Further, content generated by AI may be offensive, biased, or harmful, or violate current or future laws and regulations, and our reliance on AI could pose ethical concerns and lead to a lack of human oversight and control.

Inappropriate or controversial data practices by data scientists, engineers and end-users of our or our competitors' products could also impair the acceptance of AI products. Though our business practices are designed to mitigate many of these risks, if we enable or offer AI products that are controversial because of their purported or real impact on human rights, privacy, employment, or other social issues, we may experience brand or reputational harm.

Our investments in deploying AI technologies may be substantial and may be more expensive than anticipated. If our Platform does not function reliably, fails to meet expectations in terms of performance, or cannot be fully utilized due to increasing regulation or reputational concerns, we may be unable to provide such services, our customers may stop using our products, or our competitors may incorporate AI technology into their products or services more successfully than we do, all of which may impair our ability to effectively compete in the market.

[Table of Contents](#)

We understand that the terms “AI,” “Machine Learning,” “Generative AI,” “Large Language Models” and other similar terms may mean different things to different people. Accordingly, when we use those terms, we ascribe to them their broadest, commonly accepted meanings. For example, AI is a scientific field that allows computer software to perform human-like intelligence tasks. At its core, AI is simply the sophisticated application of mathematics to help machines perform tasks similar to, or better than, humans. AI is an umbrella term that encompasses many other subfields and technologies, including those listed above and described below:

- Machine Learning is a type of AI where the computer software is tasked with learning without being explicitly programmed. Instead, the software learns and adapts through a combination of instruction from humans and self-experimentation.
- Generative AI is a type of AI that can take different types of inputs (such as text, image, audio, video, code, etc.) and generate new content using a variety of different modalities and based on a sophisticated and advanced set of rules.
- Large Language Models are algorithms that can recognize, summarize, translate, predict, answer questions about, and generate content using very large datasets, such as our own multimodal clinical-molecular database.
- Neural Networks are a type of machine learning that teach computers to process data in a way that is inspired by the human brain. Neural networks use interconnected nodes or neurons, much in the same way the human brain does.

Our use of generative AI tools may pose particular risks to our proprietary software and systems and subject us to legal liability.

We use generative AI tools in our business and expect to use generative AI tools in the future. Using generative AI tools to produce content that can be indistinguishable from that generated by humans is a relatively novel development, with many of the benefits, risks and liabilities still unknown. Recent decisions of the U.S. Copyright Office suggest that we would not be able to claim copyright ownership in any source code, text, images, or other materials that we develop through use of generative AI tools, and the availability of such protections in other countries is unclear. As a result, we could have no remedy if third parties reused those same materials, or similar materials also generated by AI tools.

We face and expect to continue to face allegations, and we may face claims regarding such allegations, from third parties of infringement of their intellectual property rights, or mandatory compliance with open source software or other license terms, with respect to software, or other materials or content we believe to be available for use, and not subject to license terms or other third-party proprietary rights. We could also be subject to claims from providers of generative AI tools if, for example, we use any of the generated materials in a manner inconsistent with their terms of use. Any of these claims could result in legal proceedings and could require us to purchase a costly license, comply with the requirements of open source software license terms, or limit or cease using the implicated software, or other materials or content unless and until we can re-engineer such software, materials, or content to avoid infringement or change the use of, or remove, the implicated third-party materials, which could reduce or eliminate the value of our technologies and services. Our use of generative AI tools may also present additional security risks because the generated source code may have been modeled from publicly available code, or otherwise not subject to all of our standard internal controls, which may make it easier for hackers and other third parties to determine how to breach our website and systems that rely on the code. Any of these risks could be difficult to eliminate or manage, and, if not addressed, could have a material adverse effect on our business, results of operations, financial condition and future prospects.

We may experience challenges with the acquisition, development, enhancement or deployment of technology necessary for our businesses.

Our Platform requires sophisticated computer systems and software in order to accurately and efficiently capture, service and process increasing volumes of health data, in particular a growing number of genomic profiles generated by our customers through various NGS test kits, sequencers and sample materials from

[Table of Contents](#)

different manufacturers. Some of the technologies are changing rapidly and we must continue to adapt to these changes in a timely and effective manner at an acceptable cost. There can be no assurance that we will be able to develop, acquire, enhance, deploy or integrate new technologies, including technologies needed to integrate genomics data into our Platform, that these new technologies will be effective and efficient, will meet our needs or achieve our expected goals or that we will be able to do so as quickly or cost effectively as our competitors.

If we cannot compete successfully with our competitors, we may be unable to increase or sustain our revenue or to achieve and then sustain profitability.

Growing understanding of the importance of biomarkers linked with therapy selection and response is leading to more companies offering products in genomic testing, including NGS diagnostics and PCR profiling. In addition, there are a number of healthcare technology companies providing data analysis products, including AI-driven data platforms and diagnostic products.

Our competitors with respect to our Genomics products include certain diagnostics companies, such as Foundation Medicine, Inc., which was acquired by Roche Holdings, Inc., Caris Life Sciences, Guardant Health, Inc., Neogenomics, and ResolutionBio, which was acquired by Agilent, among others, with respect to our currently marketed precision oncology tests, and legacy diagnostic laboratories, such as Quest and LabCorp. In addition, our competitors for our pharmacogenetic test in neuropsychiatry include Myriad Genetics, Inc. and Genomind, Inc.

Our competitors with respect to our Data and Services products include Flatiron Health, Inc., IQVIA Holdings Inc., and ConcertAI, among others. Furthermore, our Data and Services products also face competition from CROs, such as Fortrea, ICON, Syneos, PPD, and others, who provide data and clinical trial matching services to pharmaceutical and biotechnology companies.

Our competitors with respect to our AI Applications products include Roche Holdings, Inc., Caris Life Sciences, Guardant Health, Inc., Illumina, Inc., and others, with respect to our TO test, and Myriad Genetics, Inc., Caris Life Sciences, and others, with respect to our HRD test. We may also compete with companies developing or commercializing algorithm-based diagnostics using a variety of different data modalities, including digital pathology companies such as PathAI, Inc. and PaigeAI. In cardiology, we believe our competitors may include HeartFlow Inc., Anumana, Inc., and Eko Devices, Inc. In addition, we are aware that academic medical centers may be developing their own AI Applications and may decide to enter this market.

Some of our competitors and potential competitors may have longer operating histories; larger customer bases; greater brand recognition and market penetration; substantially greater financial, technological and research and development resources and selling and marketing capabilities; and more experience dealing with third-party payers. As a result, they may be able to respond more quickly to changes in customer requirements, devote greater resources to the development, promotion and sale of their products than we do or sell their products at prices designed to win significant levels of market share. We may not be able to compete effectively against these organizations. Increased competition and cost-saving initiatives on the part of governmental entities and other third-party payers are likely to result in pricing pressures, which could harm our sales or ability to gain market share. In addition, competitors may be acquired by, receive investments from or enter into other commercial relationships with larger, well-established and well-financed companies. Certain of our competitors may be able to secure key inputs from vendors on more favorable terms, devote greater resources to marketing and promotional campaigns, adopt more aggressive pricing policies and devote substantially more resources to product development than we can. In addition, companies or governments that control access to genetic testing through umbrella contracts or regional preferences could promote our competitors or prevent us from selling certain products. If we are unable to compete successfully against current and future competitors, we may be unable to increase market acceptance and sales of our tests, which could prevent us from increasing our revenue or achieving profitability and could cause our stock price to decline.

The sizes of the markets for our current and future products have not been established with precision, and may be smaller than we estimate.

Our estimates of the annual total addressable markets for our current products and products under development are based on a number of internal and third-party estimates, including, without limitation, the number of patients profiled with genomic diagnostics in the diseases we test, the assumed prices for genomic and algorithmic testing products, the number of genomic and algorithmic tests that we are able to successfully develop and commercialize, and the existing market for multimodal patient data and clinical trial matching services. While we believe our assumptions and the data underlying our estimates are reasonable, these assumptions and estimates may not be correct and the conditions supporting our assumptions or estimates may change at any time, thereby reducing the predictive accuracy of these underlying factors. As a result, our estimates of the annual total addressable market for our current or future products may prove to be incorrect. If the actual number of patients who would benefit from our products, the price at which we can sell our products, the number of genomic or algorithmic tests we are able to successfully develop and commercialize, or the annual total addressable market for our products is smaller than we have estimated, it may impair our sales growth and have an adverse impact on our business, financial condition and results of operations.

The industries in which we operate are subject to rapid change, which could make our Platform, our current products and any future products we may develop obsolete.

The healthcare diagnostic and data industries are characterized by rapid changes, including technological and scientific breakthroughs, frequent new product introductions and enhancements and evolving industry standards, any of which could make our current and future products obsolete. Our future success will depend on our ability to keep pace with the evolving needs of our customers on a timely and cost-effective basis and to pursue new market opportunities that develop as a result of scientific and technological advances. In recent years, there have been numerous advances in technologies relating to genomic diagnostic testing, as well as advances in the application of AI to healthcare diagnostics and decision-making. We must continuously enhance our Platform and our existing diagnostic, data and analytics products and develop new products to keep pace with evolving standards of care. If we do not update our product offerings to reflect new scientific knowledge about disease biology, information about new therapies or relevant clinical trials, or insights regarding the current treatment landscape for applicable indications and advances in computational biology, software development, and AI, our Platform and products could become obsolete and sales of our current products and any new products we may develop could decline or fail to grow as expected. Further, to the extent that pharmaceutical or biotechnology companies are able to develop therapies or technologies that eradicate or substantially limit the incidence of diseases for which we sell diagnostics, the market for our applicable products could disappear entirely.

Our research and development strategy emphasizes rapid innovation and advancement of successful hires who may not have prior industry expertise, and we frequently prioritize patient care and customer satisfaction over short-term financial results. If we cannot maintain or properly manage our culture as we grow, our business may be harmed.

We have a research and development strategy that encourages employees to quickly develop and launch technologies intended to solve our customers' most important problems and prioritizes the advancement of Platform and product development, technology and engineering employees to positions of significant responsibility based on merit despite, in some cases, limited prior work or industry experience. Successful entry-level hires are often quickly advanced and rewarded with significant responsibilities, including in important customer-facing roles as project managers, development leads, and product managers. As our business grows and becomes more complex, our cultural emphasis on moving quickly and staffing research and development personnel, including certain customer-facing employees, without significant industry experience may result in unintended outcomes or in decisions that are poorly received by customers or other stakeholders. For example, in many cases we launch, at our expense, pilot deployments with customers without a long-term contract in place, and some of those deployments have not resulted in the customer's adoption or expansion of its use of our

[Table of Contents](#)

products, or the generation of significant, or any, revenue or payments. In addition, as we continue to grow, including geographically, and as we develop a public company infrastructure, we may find it difficult to maintain our culture.

Our culture also prioritizes patient care and customer satisfaction over short-term financial results, and we frequently make product decisions that may reduce our short-term revenue or cash flow if we believe that the decisions are consistent with our mission and thereby have the potential to improve our financial performance over the long term. These decisions may not produce the long-term benefits and results that we expect or may be poorly received in the short term by the public markets, in which case our customer growth and our business, financial condition and results of operations may be harmed.

We may not be able to successfully market, sell or distribute our products, and if we are unable to expand our sales organization to adequately address our customers' needs, our business, financial condition and results of operations may be adversely affected.

We may not be able to market, sell or distribute our data products and diagnostic tests, and other products we may develop effectively enough to support our planned growth. We currently sell our Genomics and AI Applications tests to clinicians and hospital systems in the United States through our own sales organization and may leverage distributors to help sell our Genomics diagnostic tests in international markets, and we sell our Data and Services products to pharmaceutical and biotechnology companies through our business development team.

Each of our target markets is large, distinct and diverse. As a result, we believe it is necessary for many of our sales representatives and business development managers to have established diagnostic- or healthcare data-focused expertise. Competition for such employees within the precision diagnostics and healthcare data analytics industries is intense. We may not be able to attract and retain personnel or be able to build an efficient and effective sales organization or business development team, which could negatively impact sales and market acceptance of our products and limit our revenue growth and potential profitability.

Our expected future growth will impose significant added responsibilities on members of management, including the need to identify, recruit, maintain and integrate additional employees. Our future financial performance and our ability to commercialize our products, to increase our sales and to compete effectively will depend, in part, on our ability to manage this potential future growth effectively, without compromising quality.

If we are not successful in executing our strategy to increase sales of our Data and Services products to large pharmaceutical and biotechnology customers, our results of operations may suffer.

An important part of our growth strategy is to increase sales of Data and Services products, and in particular our Insights product, to large pharmaceutical and biotechnology companies. Sales to large companies involve risks that may not be present (or that are present to a lesser extent) with sales to small-to-mid-sized entities. These risks include:

- increased leverage held by large customers in negotiating contractual arrangements with us;
- changes in key decision makers within these organizations that may negatively impact our ability to negotiate in the future;
- customer employees may perceive that our products pose a threat to their internal control and advocate for internally developed solutions over our product;
- resources may be spent on a potential customer that ultimately elects not to purchase our products;
- more stringent requirements in our service contracts, including stricter service response times, and increased penalties for any failure to meet service requirements;

[Table of Contents](#)

- increased competition from larger competitors that traditionally target large enterprises and government entities;
- less predictability in completing some of our sales than we do with smaller customers; and
- the potential that advancements in AI allow our Data customers to develop models that serve as functional equivalents of our database and render our own products obsolete.

Selling to large pharmaceutical and biotechnology companies is often a lengthy process, generally taking several months and sometimes longer. Following the establishment of the relationship, the negotiation of purchase terms can be time-consuming, and a potential customer may require an extended evaluation and testing period. Due to the length, size, scope, and requirements of these evaluations, we frequently provide short-term pilot deployments of our Data and Services products at no or low cost. We sometimes spend substantial time, effort and money in our sales efforts without producing any sales. The success of the investments that we make to acquire customers depends on factors such as our ability to identify potential customers for which our data products have an opportunity to add significant value to the customer's business, our ability to identify and agree with the potential customer on an appropriate pilot deployment to demonstrate the value of our products, and whether we successfully execute on such pilot deployment. Even if the pilot deployment is successful, we or the customer could choose not to enter into a larger contract for a variety of reasons. For example, product purchases by large companies are frequently subject to budget constraints, leadership changes, multiple approvals, and unplanned administrative, processing, and other delays, any of which could significantly delay or entirely prevent our realization of sales. As a result, in the event a sale is not completed or is canceled or delayed, we may have incurred substantial expenses, making it more difficult for us to become profitable or otherwise negatively impacting our financial results.

Finally, large companies typically (i) have longer implementation cycles, (ii) require greater product functionality and scalability and a broader range of services, including design services, (iii) demand that vendors take on a larger share of risks, (iv) sometimes require acceptance provisions that can lead to a delay in revenue recognition and (v) expect greater payment flexibility from vendors.

All of these factors can add further risk to business conducted with these customers. If sales expected from a large customer for a particular quarter are not realized in that quarter or at all, our business, financial condition and results of operations could be materially and adversely affected.

If our existing customers do not renew their licenses, do not buy additional products from us, or renew at lower prices, our business and operating results will suffer.

For the year ended December 31, 2023, we derived \$67.9 million, or approximately 40% and 13%, of our Data and Services product line revenue and total revenue, respectively, from three customers. We expect to continue to derive a significant portion of our Data and Services product line revenue from renewal of existing agreements. As a result, maintaining the renewal rate of our existing customers and selling additional products to them is critical to our future operating results. Factors that may affect the renewal rate for our customers and our ability to sell additional products to them include:

- the price, performance, and functionality of our products;
- the availability, price, performance, and functionality of competing products;
- the effectiveness of our support services;
- our ability to develop complementary products;
- the success of competitive products or technologies;
- the stability, performance, and security of our technological infrastructure; and
- the business environment of our customers.

[Table of Contents](#)

We deliver our Insights product through license agreements that allow our customers to use de-identified datasets for a specified term or for specified uses. Our customers have no obligation to renew their licenses for our Data and Services products after the license ends, and many of our contracts may be terminated or reduced in scope either immediately or upon notice. In addition, our customers may negotiate terms less advantageous to us upon renewal, which may reduce our revenue from these customers. Factors that are not within our control may contribute to a reduction in our Data and Services product line revenue. For instance, our customers may change the indications in which they are conducting research and development, which could result in a reduced demand for our products and thus a lower aggregate renewal fee. The loss, reduction in scope, or delay of a large contract, or the loss or delay of multiple contracts, could materially adversely affect our business, financial condition and results of operations.

Our future operating results also depend, in part, on our ability to sell expanded products to our existing customers. For example, the willingness of existing customers to expand their use of our Insights product will depend on our ability to deliver meaningful information and insights relevant to our customers' research and development endeavors, which we may not do successfully. If our customers fail to renew their agreements, renew their agreements upon less favorable terms or at lower fee levels, or fail to purchase expanded licenses from us, our revenue may decline and our future revenue may be constrained.

A significant portion of our Data and Services product line revenue are generated by sales to life sciences industry customers, and factors that adversely affect this industry could also adversely affect our Data business sales.

A significant portion of our current Data and Services products sales are to customers in the life sciences industry, in particular the pharmaceutical and biotechnology industry. Demand for our Data and Services products could be affected by factors that adversely affect the life sciences industry, including macroeconomic and market conditions that may adversely impact earlier stage biotechnology companies. The life sciences industry is highly regulated and competitive and has experienced periods of considerable consolidation. Consolidation among our customers could cause us to lose customers, decrease the available market for our products, and adversely affect our business, financial condition and results of operations. In addition, changes in regulations that make investment in the life sciences industry less attractive or drug development more expensive could adversely impact the demand for our data analytics products. For these reasons and others, selling data analytics products to life sciences companies can be competitive, expensive, and time consuming, often requiring significant upfront time and expense without any assurance that we will successfully complete a sale. Accordingly, our operating results and our ability to efficiently provide our products to life sciences companies and to grow or maintain our customer base could be adversely affected as a result of factors that affect the life sciences industry generally.

We have invested and expect to continue to invest in research and development efforts that further enhance our data analytics. Such investments may affect our operating results, and, if the return on these investments is lower or develops more slowly than we expect, our revenue and operating results may suffer.

We have invested and expect to continue to invest in research and development efforts that further enhance our data analytics, often in response to our customers' requirements. These investments may involve significant time, risks, and uncertainties, including the risk that the expenses associated with these investments may affect our margins and operating results and that such investments may not generate sufficient revenue to offset liabilities assumed and expenses associated with these new investments. The healthcare data analytics industry changes rapidly as a result of technological and product developments, which may render our Platform and products less desirable. We believe that we must continue to invest a significant amount of time and resources in our Platform and products to maintain and improve our competitive position. If we do not achieve the benefits anticipated from these investments, if the achievement of these benefits is delayed, or if a slowdown in general computing power impacts the rate at which we expect our physics-based simulations to increase in power and domain applicability, our revenue and operating results may be adversely affected.

If we are unable to collect receivables from our customers, our operating results may be adversely affected.

While the majority of our current customers are well-established large companies and hospital systems, we also provide our Data and Services products to smaller institutions and companies and our Genomics product line to individuals. Our financial success depends upon the creditworthiness and ultimate collection of amounts due from our customers, including our smaller customers with fewer financial resources. If we are not able to collect amounts due from our customers, we may be required to write-off significant accounts receivable and recognize bad debt expenses, which could materially and adversely affect our operating results.

Our existing and any future debt may affect our flexibility in operating and developing our business and our ability to satisfy our obligations.

As of March 31, 2024, we had indebtedness of \$452.5 million, comprised of \$186.7 million under the convertible promissory note, as amended, or the Amended Note, that we issued to Google LLC, or Google, and \$265.8 million pursuant to a credit agreement with Ares Capital Corporation, or Ares, as amended, for a senior secured loan, or the Term Loan Facility. Our current and future indebtedness, including the Amended Note and the Term Loan Facility may have significant negative effects on our operations, including:

- impairing our ability to obtain additional financing in the future (or to obtain such financing on acceptable terms) for working capital, capital expenditures, acquisitions or other important needs, and subjecting us to other restrictive covenants that may reduce our ability to take certain corporate actions;
- requiring us to dedicate a portion of our cash resources to the payment of interest and principal, reducing money available to fund working capital, capital expenditures, potential acquisitions, international expansion, new product development, new enterprise relationships and other general corporate purposes;
- requiring us to repay the principal and accrued interest on the Amended Note if we terminate our agreement with Google for use of Google Cloud or as a result of an event of default under the operating covenants in the Amended Note, or requiring us to repay the principal and accrued interest on the Term Loan Facility in an event of default under the covenants of the Term Loan Facility, either of which could impair our liquidity and reduce the availability of our cash flow to fund working capital, capital expenditures, acquisitions and other important needs;
- limiting our ability to adjust to rapidly changing conditions in the industry, reducing our ability to withstand competitive pressures and making us more vulnerable to a downturn in general economic conditions or business than our competitors with relatively lower levels of debt; and
- requiring us, in certain circumstances, to obtain approval from Ares before embarking on certain mergers, acquisitions, capital expenditures, or other operational issues.

We intend to satisfy our current and future debt service obligations with our then existing cash and cash equivalents. However, we may not have sufficient funds, and may be unable to arrange for additional financing, to pay the amounts due under the Term Loan Facility, the Amended Note or any other debt instruments. In addition, the Term Loan Facility and Amended Note contain, and the agreements governing our future indebtedness may contain, restrictive covenants that may limit our ability to engage in activities that may be in our long-term best interest. These restrictive covenants include, among others, financial reporting requirements, limitations on indebtedness, liens, mergers, consolidations, liquidations and dissolutions, sales of assets, investments (including acquisitions), dividends and other restricted payments and transactions with affiliates. Our failure to make payments under or comply with other covenants contained in the documents governing our indebtedness could result in an event of default which, if not cured or waived, could result in the acceleration of substantially all of our debt and potentially the foreclosure on our assets in the event we are unable to repay all amounts owed.

We rely on a limited number of suppliers or, in some cases, sole suppliers, for some of our laboratory instruments and materials and may not be able to find replacements or promptly transition to alternative suppliers.

We rely on a limited number of suppliers or, in some cases, sole suppliers, including Illumina Inc., or Illumina, for certain sequencers, reagents, blood tubes and other equipment, instruments and materials that we use in our laboratory operations. Purchases from this supplier accounted for approximately 35%, 33%, 37% and 41% of total vendor payments for the years ended December 31, 2022 and 2023 and the three months ended March 31, 2023 and 2024, respectively. Amounts due to this supplier were approximately \$8.2 million, \$11.8 million and \$8.6 million at December 31, 2022 and 2023 and March 31, 2024, respectively. An interruption in our laboratory operations could occur if we encounter delays or difficulties in securing these laboratory equipment, instruments or materials, and if we cannot then obtain an acceptable substitute. Any such interruption could significantly and adversely affect our business, financial condition and results of operations. We rely on Illumina as the sole supplier of the sequencers and as the sole provider of maintenance and repair services for these sequencers. Any disruption in operations of Illumina or other sole or limited suppliers or termination or suspension of our relationships with them could materially and adversely impact our supply chain and laboratory operations of our diagnostic testing business and thus our ability to conduct our business and generate revenue. These limited or sole suppliers could engage in diverse types of businesses, including selling products in competition with us, and there can be no assurance that we can continue to receive required equipment, instruments or materials from them.

We believe that there are only a limited number of manufacturers that are capable of supplying and servicing the equipment and materials necessary for our laboratory operations, including sequencers and various associated reagents, and potentially replacing our current suppliers. The use of equipment or materials furnished by replacement suppliers would require us to alter our laboratory operations. Transitioning to a new supplier would be time-consuming and expensive, may result in interruptions in our laboratory operations, could affect the performance specifications of our laboratory operations or could require that we revalidate our tests. There can be no assurance that we will be able to secure alternative equipment, reagents and other materials, bring such equipment, reagents and materials online, and revalidate our tests without experiencing interruptions in our workflow. In the case of an alternative supplier for Illumina, for example, there can be no assurance that replacement sequencers and various associated reagents will be available or will meet our quality control and performance requirements for our laboratory operations. If we should encounter delays or difficulties in securing, reconfiguring or integrating the equipment and reagents we require for our products or in revalidating our products, our business, financial condition and results of operations could be materially and adversely affected.

Certain disruptions in supply of, and changes in the competitive environment for, raw materials and components integral to the manufacturing of our products may adversely affect our ability to achieve and maintain profitability.

We use a broad range of materials and supplies, including chemicals and other electronic components, in our Genomics product line. A significant disruption in the supply of these materials, including disruptions like those stemming from the COVID-19 pandemic, could decrease production and shipping levels, materially increase our operating costs and materially adversely affect our profit margins. Shortages of materials or interruptions in transportation systems, labor strikes, work stoppages, infectious disease, epidemics or pandemics including COVID-19, outbreaks, conflicts (including the armed conflicts between Russia and Ukraine and the hostilities in the Middle East), civil unrest, acts of terrorism or other interruptions to or difficulties in the employment of labor (such as strikes by unionized workforces) or transportation in the markets in which we purchase materials, components and supplies for the production of our diagnostic tests, in each case may adversely affect our ability to maintain our testing capacity. Unforeseen end-of-life or unavailability for certain components, such as enzymes, could cause backorders as we modify our product specifications to accommodate replacement components. If we were to experience a significant disruption in the supply of, or prolonged shortage of, critical components from any of our suppliers and could not procure the components from other sources, we would be unable to sustain our testing capacity, which would adversely affect our sales, margins and customer relations.

If our existing laboratory and storage facilities become damaged or inoperable or we are required to vacate our existing facilities, our ability to perform our tests and pursue our research and development efforts may be jeopardized.

We currently derive nearly all of our diagnostic revenue from tests performed at laboratory facilities located in Chicago, Illinois, Atlanta, Georgia, and Raleigh, North Carolina, and these facilities generally do not have completely redundant capabilities. Further, while we are currently in the process of expanding the number and type of diagnostic tests within our laboratory facility in Raleigh, North Carolina, there is no assurance that we will successfully transition in a timely manner or at all, and we may not be able to fully operationalize this facility to its capacity. Our facilities and equipment could be harmed or rendered inoperable by natural or man-made disasters, including war, fire, earthquake, power loss, communications failure or terrorism, which may render it difficult or impossible for us to operate our Genomics product line for some period of time and which may also cause us to lose valuable stored tissue samples, including organoids. The inability to perform our tests or to reduce the backlog that could develop if a facility is inoperable for even a short period of time, may result in the loss of customers or harm to our reputation, and we may be unable to regain those customers or repair our reputation. Furthermore, our facilities and the equipment we use to perform our research and development work could be unavailable or costly and time-consuming to repair or replace. It would be difficult, time-consuming and expensive to rebuild a facility, to locate and qualify a new facility or enable a third party to practice our proprietary technology, particularly in light of licensure and accreditation requirements. Even if we are able to find a third party with such qualifications to perform our tests, the parties may be unable to agree on commercially reasonable terms. Our physical laboratory facilities are also subject to regulatory oversight, such by the federal Occupational Safety and Health Administration, or OSHA, and certain state analogs. On occasion, certain safety issues are reported directly to OSHA. While we have been successful in promptly remediating any such issues, there is no guarantee we will be able to do so in the future, and these regulatory bodies could intervene and suspend our operations, which could have a material impact on our business.

We carry insurance for damage to our property and disruption of our business, but this insurance may not cover all of the risks associated with damage or disruption to our facilities and business, may not provide coverage in amounts sufficient to cover our potential losses and may not continue to be available to us on acceptable terms, if at all.

We rely on commercial courier delivery services to transport samples to our laboratory facility in a timely and cost-efficient manner and if these delivery services are disrupted, our business will be harmed.

Our business depends on our ability to deliver test results quickly and reliably to our customers. Blood and tissue samples sent from the United States by patients, physicians or hospital pathology departments are typically received within days for analysis at our Chicago, Atlanta, or Raleigh facilities. Disruptions in delivery services to transport samples to that facility, whether due to labor disruptions, bad weather, natural disaster, terrorist acts or threats or for other reasons could adversely affect specimen integrity and our ability to process samples in a timely manner, delay our provision of test results to our customers, and ultimately our reputation and our business. In addition, if we are unable to continue to obtain expedited delivery services to transport samples to us on commercially reasonable terms, our business, financial condition and results of operations may be adversely affected.

If we cannot provide quality technical support and services for our Data and Services products, we could lose customers and our business and prospects will suffer.

Our ability to provide relevant information to customers of our Data business, and in particular of our Insights product, depends substantially on our ability to provide quality technical support and services during the term of their license. Accordingly, we need highly trained technical support and services personnel. Hiring support and services personnel is very competitive in our industry due to the limited number of people available with the necessary scientific and technical backgrounds and ability to understand our products and the needs of

our customers. To effectively support new customers and the expanding needs of current customers, we will need to substantially expand our support and services staff and develop our support infrastructure and processes. If we are unable to attract, train or retain the number of highly qualified technical services personnel that our business needs, our business and prospects will suffer.

Seasonality may cause fluctuations in our revenue and results of operations.

We believe that there are significant seasonal factors which may cause sales of our products, such as our Insights product and our infectious disease tests, to vary on a quarterly or yearly basis and increase the magnitude of quarterly or annual fluctuations in our operating results. We believe that this seasonality results from a number of factors, including the procurement and budgeting cycles of many of our customers, especially pharmaceutical and biotechnology customers. These customers typically have calendar year fiscal years, which result in a disproportionate amount of their purchasing activity occurring during our fourth quarter. These factors have contributed, and may contribute in the future, to substantial fluctuations in our quarterly operating results. Because of these fluctuations, it is possible that in some quarters our operating results will fall below the expectations of securities analysts or investors. If that happens, the market price of our common stock would likely decrease. These fluctuations, among other factors, also mean that our operating results in any particular period may not be relied upon as an indication of future performance. Seasonal or cyclical variations in our sales have in the past, and may in the future, become more or less pronounced over time, and have in the past materially affected, and may in the future materially affect, our business, financial condition and results of operations.

International expansion of our business exposes us to business, regulatory, political, operational, financial, and economic risks associated with doing business outside of the United States.

We currently have limited international operations, but our business strategy incorporates potentially significant international expansion. We plan to conduct physician and patient association outreach activities, to extend laboratory capabilities, to expand payer relationships and to market our Data business to pharmaceutical and biotechnology customers outside of the United States. Doing business internationally involves a number of risks, including:

- multiple, conflicting and changing laws and regulations such as privacy regulations, including regulations that limit our ability to collect and distribute and otherwise process de-identified patient data, tax laws, export and import restrictions, economic sanctions and embargoes, employment laws, healthcare regulatory requirements, including those governing diagnostic testing and reimbursement, and other governmental approvals, permits and licenses;
- failure by us, our distributors, our local partners to obtain regulatory approvals for the use of our products in various countries;
- additional potentially blocking or relevant third-party patent or other intellectual property rights;
- complexities and difficulties in obtaining intellectual property protection and maintaining and enforcing our intellectual property rights;
- difficulties in staffing and managing foreign operations;
- complexities associated with managing multiple payer reimbursement regimes, government payers, or patient self-pay systems;
- logistics and regulations associated with shipping blood samples, including infrastructure conditions and transportation delays;
- patient populations that are underrepresented in our databases;
- limits in our ability to penetrate international markets if we are not able to perform our tests locally;

[Table of Contents](#)

- financial risks, such as longer payment cycles, difficulty collecting accounts receivable, the impact of local and regional financial crises on demand and payment for our products and exposure to foreign currency exchange rate fluctuations, currency controls and cash repatriation restrictions;
- natural disasters, political and economic instability, including wars (such as the armed conflicts between Russia and Ukraine and the hostilities in the Middle East), terrorism, and political unrest, boycotts, curtailment of trade and other business restrictions;
- public health or similar issues, such as epidemics or pandemics, including the current outbreak of COVID-19, that could cause business disruption; and
- regulatory and compliance risks that relate to maintaining accurate information and control over sales and distributors' activities that may fall within the purview of the U.S. Foreign Corrupt Practices Act, or FCPA, its books and records provisions, or its anti-bribery provisions.

In late February 2022, Russian military forces launched a significant military action against Ukraine. In October 2023, following a series of coordinated attacks in Israel conducted by the Palestinian Islamist militant group Hamas, Israel began air strikes and a subsequent ground war against Hamas. The Israel/Hamas conflict is threatening to spread, and may in the future spread, into other Middle Eastern countries. While our business and operations are currently not impacted, including in Israel where we sell certain molecular tests through a third party and perform certain testing services, it is not possible to predict consequences of these crises, or any other conflicts that may arise, which could include further sanctions, embargoes, regional instability, geopolitical shifts and adverse effects on macroeconomic conditions, security conditions, currency exchange rates and financial markets, any of which could have a material adverse impact on our future operations and results.

Any of these factors could significantly harm our future international expansion and operations and, consequently, our revenue and results of operations.

Risks Related to Our Highly Regulated Industry

Our collection, processing, use and disclosure of personally identifiable information, including patient and employee information, is subject to privacy and security regulations, and our failure to comply with those regulations or to adequately secure the information in our possession could result in significant liability or reputational harm.

The privacy and security of personally identifiable information and/or protected health information stored, maintained, received or transmitted, including electronically, is a major issue in the United States and abroad. We collect, process, maintain, retain, evaluate, utilize and distribute large amounts of personal health and financial information and other confidential and sensitive data about our customers, employees and others in the ordinary course of our business. Concerns about and claims challenging our practices with regard to the collection, use, retention, disclosure or security of personally identifiable information, protected health information, or other privacy-related matters, even if unfounded and even if we are in compliance with applicable laws, could damage our reputation and harm our business, financial condition and results of operations.

Numerous federal, state and foreign laws and regulations govern collection, dissemination, use and confidentiality of personally identifiable information and protected health information, including HIPAA; state privacy and confidentiality laws (including state laws requiring disclosure of breaches); federal and state consumer protection and employment laws; and European and other foreign data protection laws. A range of enforcement agencies exist at both the state and federal levels that can enforce these laws and regulations. New privacy legislation may create additional rights for consumers and impose additional requirements on businesses. As these laws and regulations increase in complexity and number, they may change frequently, sometimes conflict and increase our compliance efforts, costs and risks.

HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, or HITECH, establishes a set of national privacy and security standards for the protection of PHI by health plans,

[Table of Contents](#)

healthcare clearinghouses, and certain healthcare providers that submit certain covered transactions electronically, or “covered entities,” and their “business associates,” which are persons or entities that perform certain services for, or on behalf of, a covered entity that involve creating, receiving, maintaining or transmitting PHI, and their covered subcontractors. We are a covered entity under HIPAA, and also routinely receive large amounts of PHI as a business associate under HIPAA, and therefore must comply with its requirements to protect the privacy and security of health information and must provide individuals with certain rights with respect to their health information. If we engage a business associate to help us carry out healthcare activities and functions, we must have a written business associate contract or other arrangement with the business associate that establishes specifically what the business associate has been engaged to do and requires the business associate to comply with the same requirements.

Penalties for violations of these laws vary. For instance, a single breach incident can result in findings of violations of multiple HIPAA provisions. Penalties for failure to comply with a requirement of HIPAA and HITECH vary significantly, and include civil monetary penalties for each provision of HIPAA that is violated and, in certain circumstances, criminal penalties, including imprisonment and/or additional fines. A person who knowingly obtains or discloses individually identifiable health information in violation of HIPAA may face additional fines and up to one-year imprisonment. The criminal penalties increase if the wrongful conduct involves false pretenses or the intent to sell, transfer, or use identifiable health information for commercial advantage, personal gain, or malicious harm. In addition, any allegation that we have violated HIPAA, regardless of its merit, could harm our reputation and consume significant internal resources. Responding to government investigations regarding alleged violations of these and other laws and regulations, even if ultimately concluded with no findings of violations or no penalties imposed, can consume company resources and impact our business and, if public, harm our reputation.

Data privacy remains an evolving landscape at both the domestic and international level, with new regulations coming into effect. For example, various states, such as California, Massachusetts, and others, have implemented similar privacy laws and regulations, such as the California Confidentiality of Medical Information Act, that impose restrictive requirements regulating the use and disclosure of health information and other personally identifiable information, and the California Consumer Privacy Act, which went into effect on January 1, 2020, and creates new data privacy rights for users. The CCPA requires covered businesses that process personal information of California residents to disclose their data collection, use and sharing practices. Further, the CCPA provides California residents with new data privacy rights (including the ability to opt out of certain disclosures of personal data), imposes new operational requirements for covered businesses, provides for civil penalties for violations as well as a private right of action for data breaches and statutory damages (that is expected to increase data breach class action litigation and result in significant exposure to costly legal judgements and settlements). Aspects of the CCPA and its interpretation and enforcement remain uncertain. In addition, the CCPA was expanded on January 1, 2023, when the California Privacy Rights Act of 2020, or CPRA, became operative. The CPRA, among other things, gives California residents the ability to limit use of certain sensitive personal information, further restricts the use of cross-contextual advertising, establishes restrictions on the retention of personal information, expands the types of data breaches subject to the CCPA’s private right of action, provides for increased penalties for CPRA violations concerning California residents under the age of 16, and establishes a new California Privacy Protection Agency to implement and enforce the CPRA. Although there are limited exemptions for clinical trial data under the CCPA, the CCPA and other similar laws could impact our business activities depending on how they are interpreted. New legislation proposed or enacted in various other states will continue to shape the data privacy environment nationally. For example, Virginia recently passed its Consumer Data Protection Act, and Colorado recently passed the Colorado Privacy Act, both of which differ from the CPRA and became effective in 2023. Additional states have since also passed comprehensive privacy laws with additional obligations and requirements on businesses. Certain state laws may be more stringent or broader in scope, or offer greater individual rights, with respect to confidential, sensitive and personal information than federal, international or other state laws, and such laws may differ from each other, which may complicate compliance efforts.

[Table of Contents](#)

In addition, all 50 U.S. states and the District of Columbia have enacted breach notification laws that may require us to notify patients, customers, employees or regulators in the event of unauthorized access to or disclosure of personal or confidential information experienced by us or our service providers. These laws are not consistent, and compliance in the event of a widespread data breach is difficult and may be costly. Moreover, states have been frequently amending existing laws, requiring attention to changing regulatory requirements. We also may be contractually required to notify patients or other counterparties of a security breach. Although we may have contractual protections with our service providers, any actual or perceived security breach could harm our reputation and brand, expose us to potential liability or require us to expend significant resources on data security and in responding to any such actual or perceived breach. Any contractual protections we may have from our service providers may not be sufficient to adequately protect us from any such liabilities and losses, and we may be unable to enforce any such contractual protections. In addition to government regulation, privacy advocates and industry groups have and may in the future propose self-regulatory standards from time to time. These and other industry standards may legally or contractually apply to us, or we may elect to comply with such standards.

These laws and regulations are not necessarily preempted by HIPAA, particularly if a state affords greater protection to individuals than HIPAA. Where state laws are more protective, we may have to comply with the stricter provisions. In addition to fines and penalties imposed upon violators, some of these state laws also afford private rights of action to individuals who believe their personal information has been misused. The interplay of federal and state laws may be subject to varying interpretations by courts and government agencies, creating complex compliance issues for us and our clients, and potentially exposing us to additional expense, adverse publicity and liability. Further, as regulatory focus on privacy issues continues to increase and laws and regulations concerning the protection of personal information expand and become more complex, these potential risks to our business could intensify. Changes in laws or regulations associated with the enhanced protection of certain types of sensitive data, such as PHI or other types of sensitive personally identifiable information, or PII, or increased demands for enhanced data security infrastructure applied to personally identifiable information, could greatly increase our costs of providing our products, decrease demand for our products, reduce our revenue and/or subject us to additional risks.

In addition, the interpretation and application of consumer, health-related, and data protection laws, especially with respect to genetic samples and data, in the United States, the EU (including all countries in the EEA), and elsewhere are often uncertain, contradictory, and in flux. We may operate in a number of countries outside of the United States whose laws may in some cases be more stringent than the requirements in the United States. For example, EU member countries have specific requirements relating to cross-border transfers of personal data to certain jurisdictions, including to the United States where our laboratories reside. In addition, some countries have stricter consumer notice and/or consent requirements relating to personal data collection, use or sharing, more stringent requirements relating to organizations' privacy programs and provide stronger individual rights. Moreover, international privacy and data security regulations continue to become more complex and have greater consequences. For instance, the General Data Protection Regulation, or GDPR, went into effect in May 2018 and imposes stringent data protection requirements for controllers and processors of personal data of persons within the EU. The GDPR applies to any company established in the EU as well as to those outside the EU if they collect and use personal data in connection with the offering of goods or services to individuals in the EU or the monitoring of their behavior. The GDPR enhances data protection obligations for processors and controllers of personal data, including, for example, higher standards for obtaining consent from individuals to process their personal data, more robust disclosures to individuals and a strengthened individual data rights regime, timelines for data breach notifications as short as 72 hours for notification to supervisory authorities, limitations on retention of information, increased requirements pertaining to health data, other special categories of personal sequencing and pseudonymized (i.e., key-coded) data and additional obligations when we contract third-party processors in connection with the processing of the personal data. The GDPR provides that EU member states may make their own further laws and regulations limiting the processing of personal data, including genetic, biometric or health data, which could limit our ability to use and share personal data or could cause our costs to increase, and harm our business, financial condition and results of operations. Failure to

[Table of Contents](#)

comply with the requirements of GDPR may result in significant fines of up to €20,000,000 or up to 4% of the total worldwide annual turnover of the preceding financial year, whichever is higher, and other administrative penalties. European data protection authorities have already imposed fines for GDPR violations up to, in some cases, hundreds of millions of Euros. The GDPR also confers a private right of action on data subjects and consumer associations to lodge complaints with supervisory authorities, seek judicial remedies, and obtain compensation for damages resulting from violations of the GDPR. Failure to comply with the GDPR and other applicable privacy or data security-related laws, rules or regulations could result in material penalties imposed by regulators, affect our compliance with client contracts and have an adverse effect on our business, financial condition and results of operations.

European data protection law, including the GDPR, also imposes strict rules on the transfer of personal data from Europe to the United States and other countries unless the parties to the transfer have implemented specific safeguards to protect the transferred personal data. These obligations may be interpreted and applied in a manner that is inconsistent from one jurisdiction to another and may conflict with other requirements or our practices. In addition, these rules are constantly under scrutiny. For example, the EU-US Privacy Shield and the Swiss-US Privacy Shield were both invalidated by the Court of Justice of the EU, or CJEU, in a case known colloquially as “Schrems II,” and the Swiss Commissioner, respectively. Further, the EU Standard Contractual Clauses are the subject of legal challenges in European courts and the Standard Contractual Clauses as well as any successor version(s) of those clauses may face additional challenges in the future and be found similarly invalidated, and the absence of successor safeguards for continued data transfer could require us to create duplicative, and potentially expensive, information technology infrastructure and business operations in Europe or limit our ability to collect and use personal information collected in Europe. Notwithstanding the foregoing challenges, the use of the EU Standard Contractual Clauses has also been called into question by the European courts. Use of the standard contractual clauses must now be assessed on a case-by-case basis taking into account the legal regime applicable in the destination country, in particular regarding applicable surveillance laws and relevant rights of individuals with respect to the transferred data. On July 11, 2023, the European Commission entered into force its adequacy decision for the EU-US Data Privacy Framework, or EU-US DPF, (a new framework for transferring personal information from the EEA to the United States), having determined that such framework ensures that the protection of personal information transferred from the EEA to the United States will be comparable to the protection offered in the EU. However, this decision will likely face legal challenges and ultimately may be invalidated by the CJEU just as the EU-US Privacy Shield was. On October 12, 2023, a UK-U.S. Data Bridge came into force to operate as an extension of the EU-US DPF to facilitate transfers of personal data between the United Kingdom and certified entities in the United States. Such Data Bridge could not only be challenged, but also may be affected by any challenges to the EU-US DPF. If we are unable to implement a valid compliance mechanism for cross-border personal data transfers, we may face increased exposure to regulatory actions, substantial fines and injunctions against processing or transferring personal data outside of the EEA and the United Kingdom, including to the United States.

Furthermore, in June 2021, the European Commission adopted new standard contractual clauses under the GDPR for transfers of personal data outside the EEA to countries that the European Commission has not deemed to provide an adequate level of protection for such personal data. If we elect to rely on the new standard contractual clauses for personal data transfers out of Europe, we may be required to expend significant resources to update our contractual arrangements and to meet the obligations the new standard contractual clauses impose; for example, we may be required to conduct transfer impact assessments for such cross-border personal data transfers and implement additional security measures. In addition, the EU Commission has proposed a new ePrivacy Regulation that would address various matters, including provisions specifically aimed at the use of cookies to identify an individual’s online behavior, and any such ePrivacy Regulation may provide for new compliance obligations and significant penalties. Any of these changes to EU data protection law or its interpretation could disrupt and harm our business. We rely on a mixture of safeguards to transfer personal data from the EU to the United States, and could be impacted by changes in law as a result of a future review of these transfer mechanisms by European regulators or current challenges to these mechanisms in the European courts.

In addition, the United Kingdom leaving the EU could also lead to further legislative and regulatory changes. It remains unclear how the United Kingdom data protection laws or regulations will develop in the medium to longer term and how data transfer to the United Kingdom from the EU will be regulated, especially following the United Kingdom's departure from the EU on January 31, 2020 without a deal. However, the United Kingdom has transposed the GDPR into domestic law with the Data Protection Act 2018, which remains in force following the United Kingdom's departure from the EU. As of January 1, 2021, and the expiry of transitional arrangements agreed to between the United Kingdom and EU, data processing in the United Kingdom is governed by a United Kingdom version of the GDPR (combining the GDPR and the Data Protection Act 2018), exposing us to two parallel regimes, each of which potentially authorizes similar fines and other potentially divergent enforcement actions for certain violations. On June 28, 2021, the European Commission issued an adequacy decision under the GDPR which allows personal data transfers (other than those carried out for the purposes of United Kingdom immigration control) from the EEA to the United Kingdom to continue without restriction for four years (ending June 27, 2025). After that period, the adequacy decision may be renewed, only if the United Kingdom continues to ensure an adequate level of data protection. During these four years, the European Commission will continue to monitor the situation in the United Kingdom and could intervene at any point if the United Kingdom deviates from the level of data protection in place at the time of the issuance of the adequacy decision. If the adequacy decision is withdrawn or not renewed, transfers of personal data from the EEA to the United Kingdom will require a valid 'transfer mechanism' and we may be required to implement new processes and put new agreements in place, such as standard contractual clauses, to enable transfers of personal data from the EEA to the United Kingdom to continue.

Because of the breadth of these laws and the narrowness of their exceptions and safe harbors, it is possible that our current practices could be challenged under one or more of such laws, or that we will have to modify our business practices substantially to begin operating in these areas. The scope and enforcement of each of these laws is uncertain and subject to rapid change in the current environment of healthcare reform. Federal, state and foreign enforcement bodies have increased their scrutiny of interactions between healthcare companies and healthcare providers, which has led to a number of investigations, prosecutions, convictions and settlements in the healthcare industry.

With the GDPR, CCPA, CPRA, and other laws, regulations and other obligations relating to privacy and data protection imposing new and relatively burdensome obligations, and with substantial uncertainty over the interpretation and application of these and other obligations, we may face challenges in addressing their requirements and making necessary changes to our policies and practices, and may incur significant costs and expenses in an effort to do so. Additionally, if third parties we work with, such as vendors or service providers, violate applicable laws or regulations or our policies, such violations may also put our or our customers' data at risk and could in turn have an adverse effect on our business, financial condition and results of operations. Any failure or perceived failure by us or our service providers to comply with our applicable policies or notices relating to privacy or data protection, our contractual or other obligations to third parties, or any of our other legal obligations relating to privacy or data protection, may result in governmental investigations or enforcement actions, litigation, claims and other proceedings, harm our reputation, and could result in significant liability.

We conduct business in a heavily regulated industry, and changes in regulations or violations of regulations may, directly or indirectly, reduce our revenue, adversely affect our business, financial condition and results of operations.

The diagnostic testing industry is highly regulated, and there can be no assurance that the regulatory environment in which we operate will not change significantly and adversely to us in the future. Areas of the regulatory environment that may affect our ability to conduct business include, without limitation:

- federal and state laws applicable to test ordering, documentation of tests ordered, billing practices and claims payment and/or regulatory agencies enforcing those laws and regulations;
- federal and state health care fraud and abuse laws;

Table of Contents

- federal and state laboratory anti-mark-up laws;
- coverage and reimbursement levels by Medicare, Medicaid, other governmental payers and private insurers;
- restrictions on coverage of and reimbursement for tests;
- federal and state laws governing laboratory testing, including CLIA, and state licensing laws;
- federal and state laws and enforcement policies governing the development, use and distribution of diagnostic medical devices, including laboratory developed tests, or LDTs;
- federal and state laws and enforcement policies governing the use of AI in analyzing data, including data in healthcare related areas;
- federal, state and local laws governing the handling and disposal of medical and hazardous waste;
- federal and state Occupational Safety and Health Administration rules and regulations;
- the Health Insurance Portability and Accountability Act of 1996, or HIPAA, and similar state data privacy and security laws; and
- consumer protection laws.

In particular, the laws and regulations governing the marketing of diagnostic tests are complex, and there are often no sufficient regulatory or judicial interpretations of these laws and regulations. For example, some of our diagnostic tests are actively regulated by the FDA pursuant to the medical device provisions of the Federal Food, Drug and Cosmetic Act, or FDCA. The FDA defines a medical device to include any instrument, apparatus, implement, machine, contrivance, implant, in vitro reagent or other similar or related article, including a component, part or accessory, intended for use in the diagnosis of disease or other conditions, or in the cure, mitigation, treatment or prevention of disease, in man or other animals. Many of our genomic and algorithmic diagnostic tests are likely to be considered by the FDA to be medical devices. Among other things, pursuant to the FDCA and its implementing regulations, the FDA regulates the research, design, testing, manufacturing, safety, labeling, storage, recordkeeping, premarket clearance or approval, marketing and promotion and sales and distribution of medical devices in the United States to ensure that medical devices distributed domestically are safe and effective for their intended uses. In addition, the FDA regulates the import and export of medical devices. If we do not comply with these requirements or fail to adequately comply, our business, financial condition and results of operations may be harmed.

Changes in the current regulatory framework for algorithmic diagnostic products and services can impose additional regulatory burdens on us. The FDA is also currently considering the development of novel regulatory pathways for AI technologies and other software. As the regulatory framework evolves, we may incur substantial costs to ensure compliance with new or amended laws and regulations. Failure to comply with any of these laws and regulations could result in enforcement actions against us, damage to our reputation and loss of goodwill, any of which could have a material adverse effect on our business, financial condition and results of operations.

Certain of our tests are currently marketed as LDTs, and future changes in FDA enforcement discretion for LDTs could subject our operations to much more significant regulatory requirements.

The FDA has historically operated under a policy of enforcement discretion with respect to LDTs whereby the FDA did not actively enforce its regulatory requirements for such tests. On May 6, 2024, the FDA published final regulations taking effect on July 5, 2024 that will phase-out enforcement discretion over a period of four years and require compliance with device registration and listing requirements, medical device reporting requirements, 510(k) clearance, denovo authorization or Premarket Approval and the requirements of the FDA's Quality System Regulation. If we fail to phase-in our compliance with these regulations we may be required to stop selling our existing tests or launching any other tests we may develop and to conduct additional clinical

trials or take other actions prior to continuing to market our tests. This could significantly increase the costs and expenses of conducting, or otherwise harm, our business, financial condition and results of operations. Even if such tests are authorized for marketing by the FDA, the agency could limit the test's indications for use, which may significantly limit the market for that product and may adversely affect our business and financial condition. Additionally, because our Platform and other software applications we make available include functionality related to the reporting of results from the LDTs we run, the FDA could attempt to regulate the software applications, including portions of our Platform, that we utilize to provide results of the LDTs to our customers and this may require costly modifications, additional development or the reduction in functionality in our offerings which could, in turn, make them less attractive to our customers.

There is no guarantee that the FDA will grant 510(k) clearance or a premarket approval of our products and failure to obtain necessary clearances or approvals for our products would adversely affect our ability to grow our business.

Before we begin to label and market certain of our products for use as clinical diagnostics in the United States, including as companion diagnostics, we may be required to obtain either 510(k) clearance or a premarket approval, or supplemental premarket approval, or respectively, PMA or sPMA, from the FDA, unless an exemption applies or FDA exercises its enforcement discretion and refrains from enforcing its medical device requirements.

The process of obtaining regulatory clearance or approval can be a rigorous, costly, lengthy and uncertain process. In the PMA process, the FDA must determine that a proposed device is safe and effective for its intended use based, in part, on extensive data, including, but not limited to, technical, pre-clinical, clinical trial, manufacturing and labeling data. In the 510(k) clearance process, the FDA must determine that a proposed device is "substantially equivalent" to a device legally on the market, known as a "predicate" device, in order to clear the proposed device for marketing. To be "substantially equivalent," the proposed device must have the same intended use as the predicate device, and either have the same technological characteristics as the predicate device or have different technological characteristics and not raise different questions of safety or effectiveness than the predicate device. Clinical data is sometimes required to support a substantial equivalence determination.

The FDA can delay, limit or deny clearance or approval of a device for many reasons, including:

- our inability to demonstrate to the satisfaction of the FDA that our products are safe or effective for their intended uses;
- the disagreement of the FDA with the design, conduct or implementation of our clinical trials or the analysis or interpretation of data from our pre-clinical studies or clinical trials;
- serious and unexpected adverse effects experienced by participants in our clinical trials;
- the data from our pre-clinical studies and clinical trials may be insufficient to support clearance or approval, where required;
- our inability to demonstrate that the clinical and other benefits of any of our tests outweigh the risks;
- an advisory committee, if convened by the FDA, may recommend against approval of our PMA or other application for any of our tests or may recommend that the FDA require, as a condition of approval, additional pre-clinical studies or clinical trials, limitations on approved labeling or distribution and use restrictions, or even if an advisory committee, if convened, makes a favorable recommendation, the FDA may still not approve the test;
- the FDA may identify deficiencies in our marketing application, and in our manufacturing processes, facilities or analytical methods or those of our third-party contract manufacturers;
- the potential for approval policies or regulations of the FDA to change significantly in a manner rendering our clinical data or regulatory filings insufficient for the clearance or approval; and
- the FDA may audit our clinical trial data and conclude that the data is not sufficiently reliable to support a PMA application.

[Table of Contents](#)

In foreign jurisdictions, we may be required to procure similar regulatory approvals or clearances prior to marketing our diagnostic products. For example, in the Europe Union, we need to comply with the new Medical Device Regulation 2017/745 and In Vitro Diagnostic Regulation 2017/746, which became effective May 26, 2017, with application dates of May 26, 2021 (postponed from 2020) and May 26, 2022, respectively. Obtaining the requisite regulatory approvals or clearances in foreign jurisdictions can be expensive and may involve considerable delay.

Any delay or failure to obtain necessary regulatory approvals or clearances would have a material adverse effect on our business, financial condition and results of operations.

Modifications to our FDA-cleared or approved products may require new 510(k) clearances or premarket approvals, or may require us to cease marketing or recall the modified products until clearances are obtained.

For any product approved pursuant to a PMA, we are required to seek supplemental approval for many types of changes to the approved product, for which we will need to determine whether a PMA supplement or other regulatory filing is needed or whether the change may be reported via the PMA Annual Report. Similarly, any modification to a 510(k)-cleared device that could significantly affect its safety or effectiveness, or that would constitute a major change in its intended use, design, or manufacture, requires new 510(k) clearance or, possibly, approval of a new PMA. If the FDA requires us to seek approvals or clearances for modifications to our previously approved or cleared products, for which we concluded that new approvals or clearances are unnecessary, we may be required to cease marketing or distribution of our products or to recall the modified product until we obtain the approval or clearance, and we may be subject to significant regulatory fines or penalties.

Our products may in the future be subject to product recalls. A recall of our products, either voluntarily or at the direction of the FDA or another governmental authority, or the discovery of serious safety issues with our products, could have a significant adverse impact on us.

The FDA and international regulatory bodies have the authority to require the recall of commercialized products that are subject to FDA regulation in the event of material deficiencies or defects in design or manufacture. We may also, on our own initiative, recall a product. The FDA, for example, requires that certain classifications of recalls be reported to the FDA within ten working days after the recall is initiated. In the case of FDA-approved tests, a government-mandated or voluntary recall by us or one of our distributors could occur as a result of an unacceptable risk to health, component failures, malfunctions, manufacturing errors, design or labeling defects or other deficiencies and issues. Recalls of any of our products could impair our ability to produce our products in a cost-effective and timely manner, which would have an adverse effect on our reputation, business, financial condition and results of operations. We may be subject to liability claims, may be required to bear costs or may take other actions that may have a negative impact on our future sales and our ability to generate profits. We may initiate voluntary recalls involving our products in the future that we determine do not require notification to the FDA. If the FDA disagrees with our determinations, the FDA could require us to report those actions and take enforcement action for failing to report the recalls when they were conducted. A future recall announcement could harm our reputation with customers and negatively affect our business, financial condition and results of operations.

If we initiate a correction or removal for one of our tests, issue a safety alert or undertake a field action or recall to reduce a risk to health imposed by the test, this could lead to increased scrutiny by the FDA and our customers regarding the quality and safety of our tests and to negative publicity, including FDA alerts, press releases or administrative or judicial actions. Furthermore, circulation of any such negative publicity could harm our reputation, be used by competitors against us in competitive situations and cause customers to delay purchase decisions or cancel orders.

Arterys, Inc., a company we acquired in 2022, has developed several medical devices that are regulated by the FDA and its European equivalents. Arterys also distributes devices developed by third parties. If we identify

an issue with, or propose changes to, one of these devices that impacts patient safety or causes us to undertake a field action or implement a recall, our business operations and reputation could be harmed in a meaningful way.

Our “research use only” and any potential “investigational use only” products could become subject to more onerous regulation by the FDA or other regulatory agencies in the future, which could increase our costs and delay our commercialization efforts, thereby materially and adversely affecting our business, financial condition and results of operations.

In the United States, some of our products are currently available, or may become available, for research use only, or RUO, or for investigational use only, or IVO, depending on the proposed application. We make our RUO and IVO products available to a variety of parties, including pharmaceutical and biotechnology companies and research institutes. Because RUO and IVO products are not intended for use in clinical practice and cannot be advertised or promoted for clinical or diagnostic claims, they are exempt from many regulatory requirements otherwise applicable to medical devices. In particular, while the FDA regulations require that RUO products be labeled “For Research Use Only. Not for use in diagnostic procedures,” and that IVO products be labeled “For Investigational Use Only. The performance characteristics of this product have not been established,” such products are not subject to the FDA’s pre- and post-market controls for medical devices.

A significant change in the laws governing RUO or IVO products or how they are enforced may require us to change our business model in order to maintain compliance. For instance, in November 2013 the FDA issued a guidance document entitled “Distribution of In Vitro Diagnostic Products Labeled for Research Use Only or Investigational Use Only,” or the RUO/IVO Guidance, which highlights the FDA’s interpretation that distribution of RUO or IVO products with any labeling, advertising or promotion that suggests that clinical laboratories can validate the test through their own procedures and subsequently offer it for clinical diagnostic use as an LDT is in conflict with the RUO or IVO status. The RUO/IVO Guidance further articulates the FDA’s position that any assistance offered in performing clinical validation or verification, or similar specialized technical support, to clinical laboratories, is in conflict with RUO or IVO status. If we engage in any activities that the FDA deems to be in conflict with the RUO or IVO status held by any of our products so labeled, we may be subject to immediate, severe and broad FDA enforcement action that would adversely affect our ability to continue operations. Accordingly, if the FDA finds that we are distributing our RUO or IVO products in a manner that is inconsistent with its RUO/IVO Guidance, we may be forced to stop distribution of our RUO/IVO tests until we are in compliance, which would reduce our revenue, increase our costs and adversely affect our business, financial condition and results of operations.

Even if we receive regulatory approval of our products, we will continue to be subject to extensive regulatory oversight.

Medical devices are subject to extensive regulation by the FDA in the United States, the European Commission, European Economic Area, or EEA, Competent Authorities, and comparable regulatory agencies in other territories where we do or may do business. If any of our products are approved by the FDA, the European Commission, EEA Competent Authorities, or other comparable foreign regulatory agencies, we will be required to timely file various reports. If these reports are not filed timely, regulators may impose sanctions and sales of our products may suffer, and we may be subject to product liability or regulatory enforcement actions, all of which could harm our business, financial condition and results of operations. In addition, as a condition of approving a PMA application, the FDA may also require some form of post-approval study or post-market surveillance, whereby the applicant conducts a follow-up study or follows certain patient groups for a number of years and makes periodic reports to the FDA on the clinical status of those patients when necessary to protect the public health or to provide additional safety and effectiveness data for the device. The product labeling must be updated and submitted in a PMA supplement as results, including any adverse event data from the post-approval study, become available. Failure to conduct or timely complete post-approval studies in compliance with applicable regulations, update the product labeling, or comply with other post-approval requirements could result in withdrawal of approval of the PMA, which would harm our business, financial condition and results of operations.

[Table of Contents](#)

The FDA and the FTC also regulate the advertising and promotion of medical devices to ensure that their promotional claims made are consistent with the applicable marketing authorizations, that there are adequate and reasonable data to substantiate the claims, and that the promotional labeling and advertising is neither false nor misleading in any respect. If the FDA or FTC determines that any of our promotional claims are false, misleading, not substantiated or not permissible, we may be subject to enforcement actions and we may be required to revise our promotional claims and make other corrections or restitutions.

The FDA, state and foreign authorities have broad enforcement powers. Our failure to comply with applicable regulatory requirements could result in enforcement action by the FDA, state or foreign regulatory agencies, which may include any of the following sanctions:

- adverse publicity, warning letters, untitled letters, fines, injunctions, consent decrees and civil penalties;
- repair, replacement, refunds, recalls, termination of distribution, administrative detention or seizures of our products;
- operating restrictions, partial suspension or total shutdown of production;
- customer notifications or repair, replacement or refunds;
- refusing our requests for clearances or approvals of new products, new intended uses or modifications to existing products;
- withdrawals of current clearances or approvals, resulting in prohibitions on sales of our products;
- refusal to issue certificates needed to export products for sale in other countries; and
- criminal prosecution.

Any of these sanctions could also result in higher than anticipated costs or lower than anticipated sales of our products and have a material adverse effect on our business, financial condition and results of operations.

In addition, the FDA may change its clearance and approval policies, adopt additional regulations or revise existing regulations, or take other actions which may prevent or delay approval or clearance of our current or future products under development. For example, in November 2018, FDA officials announced forthcoming steps that the FDA intends to take to modernize the premarket notification pathway under Section 510(k) of the FDCA.

Among other things, the FDA announced that it planned to develop proposals to drive manufacturers utilizing the 510(k) pathway toward the use of newer predicates. These proposals included plans to potentially sunset certain older devices that were used as predicates under the 510(k) clearance pathway, and to potentially publish a list of devices that have been cleared on the basis of demonstrated substantial equivalence to predicate devices that are more than 10 years old. In May 2019, the FDA solicited public feedback on these proposals. The FDA requested public feedback on whether it should consider certain actions that might require new authority, such as whether to sunset certain older devices that were used as predicates under the 510(k) clearance pathway. These proposals have not yet been finalized or adopted, and the FDA may work with Congress to implement such proposals through legislation. Accordingly, it is unclear the extent to which any proposals, if adopted, could impose additional regulatory requirements on us that could delay our ability to obtain new 510(k) clearances, increase the costs of compliance, or restrict our ability to maintain our current clearances, or otherwise create competition that may negatively affect our business, financial condition and results of operations.

The FDA may establish performance criteria for classes of devices for which we or our competitors seek or currently have received clearance, and it is unclear the extent to which such performance standards, if established, could impact our ability to obtain new 510(k) clearances or otherwise create competition that may negatively affect our business, financial condition and results of operations.

[Table of Contents](#)

Any new statutes, regulations or revisions or reinterpretations of existing regulations may impose additional costs or lengthen review times of our current or future products or make it more difficult to obtain clearance or approval for, manufacture, market or distribute our products.

The FDA's and other regulatory authorities' policies may change and additional government regulations may be promulgated that could prevent, limit or delay regulatory clearance or approval of our diagnostic tests.

We also cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative or executive action, either in the United States or abroad.

We may never obtain approval in foreign jurisdictions for any of our products and, even if we do, we may never be able to commercialize them in any other jurisdiction, which would limit our ability to realize their full market potential.

In order to eventually market any of our current or future products in any particular foreign jurisdiction, we must comply with numerous and varying regulatory requirements on a jurisdiction-by-jurisdiction basis regarding quality, safety, data privacy, performance and efficacy. In addition, products offered in one country may not be accepted by regulatory authorities in other countries. Approval processes vary among countries and can involve additional product testing and validation and additional administrative review periods.

Seeking foreign regulatory clearance, authorization or approval could result in difficulties and costs for us and require additional studies, trials or investigations which could be costly and time-consuming. Regulatory requirements and ethical approval obligations can vary widely from country to country and could delay or prevent the introduction of our products in those countries. If we or our collaborators fail to comply with regulatory requirements in international markets or to obtain and maintain required regulatory clearances, authorizations or approvals in international markets, or if those approvals are delayed, our target market will be reduced and our ability to realize the full market potential of our products will be unrealized.

Failure to comply with federal, state and foreign laboratory licensing requirements and the applicable requirements of the FDA or any other regulatory authority, could cause us to lose the ability to perform our tests, experience disruptions to our business, or become subject to administrative or judicial sanctions.

We are subject to CLIA, a federal law that regulates clinical laboratories that perform testing on specimens derived from humans for the purpose of providing information for the diagnosis, prevention or treatment of disease. CLIA regulations establish specific standards with respect to personnel qualifications, facility administration, proficiency testing, quality control, quality assurance and inspections. Any testing subject to CLIA regulation must be performed in a CLIA certified laboratory. CLIA certification is also required in order for us to be eligible to bill state and federal healthcare programs, as well as commercial payers, for our tests. We have a current CLIA certificate to perform our tests at our laboratories in Chicago, Illinois, Atlanta, Georgia and Raleigh, North Carolina. To maintain this certificate, we are subject to survey and inspection every two years. Moreover, CLIA inspectors may make random inspections of our laboratory from time to time.

We are also required to maintain clinical laboratory licenses to perform testing in Illinois, Georgia, and North Carolina. State laboratory laws establish standards for day-to-day operation of our clinical laboratories, including the training and skills required of personnel and quality control. In addition, some other states require our laboratories to be licensed in the state in order to test specimens from those states. In addition to Illinois and Georgia, our laboratories are licensed in California, Rhode Island, Pennsylvania, New York and Maryland. Although we have obtained licenses from states where we believe we are required to be licensed, it is possible that other states we are not aware of currently require out-of-state laboratories to obtain licensure in order to test specimens from the state, and that other states may adopt similar requirements in the future.

We may also be subject to regulations in foreign jurisdictions as we seek to expand international utilization of our tests or as such jurisdictions adopt new licensure requirements, which may require review of our tests in

order to offer them or may have other limitations such as restrictions on the transport of specimens necessary for us to perform our tests that may limit our ability to make our tests available outside of the United States. Complying with licensure requirements in new jurisdictions may be expensive, time-consuming and subject us to significant and unanticipated delays.

Failure to comply with applicable clinical laboratory licensure requirements may result in a range of enforcement actions, including suspension, limitation or revocation of our CLIA certificate and/or state licenses, imposition of a directed plan of action, on-site monitoring, civil monetary penalties, criminal sanctions, inability to receive reimbursement from Medicare, Medicaid and commercial payers, as well as significant adverse publicity. Any sanction imposed under CLIA, its implementing regulations, or state or foreign laws or regulations governing clinical laboratory licensure or our failure to renew our CLIA certificate, a state or foreign license or accreditation, could have a material adverse effect on our business, financial condition and results of operations. Even if we were able to bring our laboratory back into compliance, we could incur significant expenses and potentially lose revenue in doing so.

In order to test specimens from New York, LDTs must be approved by the New York State Department of Health, or NYSDOH, on a product-by-product basis before they are offered, and versions of our xT and xF tests have been approved by NYSDOH. We will need to seek NYSDOH approval of any future LDTs we develop, or for modifications to our existing LDTs, and want to offer for clinical testing to New York residents, and there can be no assurance that we will be able to obtain such approval. As a result, we are subject to periodic inspection by the NYSDOH and are required to demonstrate ongoing compliance with NYSDOH regulations and standards. To the extent NYSDOH identifies any non-compliance and we are unable to implement satisfactory corrective actions to remedy such non-compliance, the State of New York could withdraw approval for our tests.

The College of American Pathologists, or CAP, maintains a clinical laboratory accreditation program. While not required to operate a CLIA-certified laboratory, many private insurers require CAP accreditation as a condition to contracting with clinical laboratories to cover their tests. In addition, some countries outside the United States require CAP accreditation as a condition to permitting clinical laboratories to test samples taken from their citizens. We have obtained CAP accreditation for our Chicago, Atlanta and Raleigh, North Carolina laboratories. In order to maintain CAP accreditation, we are subject to survey for compliance with CAP standards every two years. Failure to maintain CAP accreditation could have a material adverse effect on the sales of our tests and the results of our operations.

We are subject to numerous federal and state healthcare statutes and regulations; complying with such laws pertaining to our business is an expensive and time-consuming process, and any failure to comply could result in substantial penalties and a material adverse effect to our business, financial condition and results of operations.

Our operations are subject to other extensive federal, state, local and foreign laws and regulations, all of which are subject to change. These laws and regulations may include, among others:

- the federal Anti-Kickback Statute, or AKS, which prohibits knowingly and willfully offering, paying, soliciting or receiving remuneration, directly or indirectly, overtly or covertly, in cash or in kind (e.g. provision of free or discounted goods, services or items), in return for or to induce such person to refer an individual, or to purchase, lease, order, arrange for or recommend purchasing, leasing or ordering, any good, facility, item or service that is reimbursable, in whole or in part, under a federal healthcare program. The term “remuneration” has been broadly interpreted to include anything of value, such as phlebotomy kits. Although there are a number of statutory exceptions and regulatory safe harbors protecting certain common activities from prosecution or other regulatory sanctions, the exceptions and safe harbors are drawn narrowly, and practices that involve remuneration that are alleged to be intended to induce referrals, purchases or recommendations of covered items or services may be subject to scrutiny if they do not qualify for an exception or safe harbor. Failure to meet all of the requirements of a particular applicable statutory exception or regulatory safe harbor does not make the

conduct *per se* illegal under the AKS. Instead, the legality of the arrangement will be evaluated on a case-by-case basis based on a cumulative review of all its facts and circumstances. Several courts have held that if any one purpose of an arrangement involving remuneration is to induce referrals of federal healthcare covered business, the AKS has been violated. Moreover, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation. Violations are subject to significant civil monetary penalties, plus up to three times the remuneration involved. Violations of the AKS may also result in criminal penalties, including additional fines and imprisonment of up to ten years, and exclusion from Medicare, Medicaid or other governmental healthcare programs;

- the Eliminating Kickbacks in Recovery Act of 2018, or EKRA, which prohibits knowingly and willfully soliciting or receiving any remuneration (including any kickback, bribe or rebate) directly or indirectly, overtly or covertly, in cash or in kind, in return for referring a patient or patronage to a laboratory; or paying or offering any remuneration (including any kickback, bribe or rebate) directly or indirectly, overtly or covertly, in cash or in kind, to induce a referral of an individual to a laboratory or in exchange for an individual using the services of that laboratory. EKRA was enacted to help reduce opioid-related fraud and abuse. However, EKRA defines the term “laboratory” broadly and without reference to any connection to substance use disorder treatment. The EKRA applies to all payers including commercial payers and government payers. Violations of EKRA are subject to significant fines and/or up to 10 years in jail, separate and apart from existing AKS regulations and penalties. The law includes a limited number of exceptions, some of which closely align with corresponding AKS exceptions and safe harbors, and others that materially differ. Currently, there is no regulation interpreting or implementing EKRA, nor any guidance released by a federal agency regarding the scope of EKRA. Accordingly, we cannot guarantee that our relationships with providers, sales representatives, or customers will not be subject to scrutiny or will withstand regulatory challenge under EKRA;
- the Stark Law, which prohibits a physician from making a referral for certain designated health services covered by the Medicare or Medicaid program, including laboratory and pathology services, if the physician or an immediate family member of the physician has a financial relationship with the entity providing the designated health services and prohibits that entity from billing, presenting or causing to be presented a claim for the designated health services furnished pursuant to the prohibited referral, unless an exception applies. Sanctions for violating the Stark Law include denial of payment, significant civil monetary penalties (on a per claim basis and additional penalties for a circumvention scheme), and exclusion from the federal healthcare programs;
- the federal Civil Monetary Penalties Law, which prohibits, among other things, the offering or transfer of remuneration to a Medicare or state healthcare program beneficiary if the person knows or should know it is likely to influence the beneficiary’s selection of a particular provider, practitioner or supplier of services reimbursable by Medicare or a state healthcare program, unless an exception applies. Violations can result in significant civil monetary penalties for each wrongful act;
- federal and state “Anti-Markup” rules, which, among other things, typically prohibit a physician or supplier billing for clinical or diagnostic tests (with certain exceptions) from marking up the price of a purchased test performed by another physician or supplier that does not “share a practice” with the billing physician or supplier;
- the federal Physician Payments Sunshine Act, which requires certain manufacturers of drugs, biologicals, and kits, medical devices or supplies that require premarket approval by or notification to the FDA, and for which payment is available under Medicare, Medicaid or the Children’s Health Insurance Program to report annually to CMS, information related to (i) payments and other transfers of value to physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors), other healthcare professionals (such as physician assistants and nurse practitioners), and teaching hospitals; and (ii) ownership and investment interests in such manufacturers held by physicians and their immediate family members. Failure to submit required information may result in significant civil

monetary penalties for any payments, transfers of value or ownership or investment interests that are not timely, accurately, and completely reported in an annual submission, and may result in liability under other federal laws or regulations;

- the federal government may bring a lawsuit under the False Claims Act, or the FCA, against any party whom it believes has knowingly or recklessly presented, or caused to be presented, a false or fraudulent request for payment from the federal government, or who has made a false statement or used a false record to get a claim for payment approved. The federal government and a number of courts have taken the position that claims presented in violation of certain other statutes, including the AKS or the Stark Law, can also be considered a violation of the FCA based on the theory that a provider impliedly certifies compliance with all applicable laws, regulations, and other rules when submitting claims for reimbursement. An FCA violation may provide the basis for the imposition of administrative penalties as well as exclusion from participation in governmental healthcare programs, including Medicare and Medicaid. A number of states including California have enacted laws that are similar to the federal FCA. Private individuals can bring FCA “*qui tam*” actions, on behalf of the government and such individuals, commonly known as “whistleblowers,” may share in amounts paid by the entity to the government in fines or settlement. When an entity is determined to have violated the FCA, the government may impose civil fines and penalties for each false claim, plus treble damages, and exclude the entity from participation in federal healthcare programs;
- the HIPAA fraud and abuse provisions, which created federal criminal statutes that prohibit, among other things, knowingly and willfully executing, or attempting to execute, a scheme to defraud any healthcare benefit program, including private insurers, knowingly and willfully embezzling or stealing from a healthcare benefit program, willfully obstructing a criminal investigation of a healthcare offense, and knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false, fictitious or fraudulent statement in connection with the delivery of or payment for healthcare benefits, items or services. A person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation;
- HIPAA, as amended by HITECH, and their respective implementing regulations, which impose obligations on covered entities, including certain healthcare providers, health plans, and healthcare clearinghouses, as well as their respective business associates that create, receive, maintain or transmit individually identifiable health information for or on behalf of a covered entity, with respect to safeguarding the privacy, security and transmission of individually identifiable health information, and their covered subcontractors;
- federal and state laws related to, among other things, unlawful schemes to defraud, excessive fees for services, unlawful trade practices, insurance fraud, kickbacks, patient inducement and statutory or common law fraud restrict the provision of products, services or items for free or at reduced charge to government or non-government healthcare program beneficiaries. These laws and regulations relating to the provision of items or services for free are complex and are subject to interpretation by the courts and by government agencies;
- other federal and state fraud and abuse laws, such as state anti-kickback, self-referrals, false claims and anti-markup laws, any of which may extend to services reimbursable by any payer, including private insurers;
- state laws that prohibit other specified practices, such as billing physicians for tests that they order; providing tests at no or discounted cost to induce adoption; waiving co-insurance, co-payments, deductibles or other amounts owed by patients; billing a state healthcare program at a price that is higher than what is charged to other payers; or employing, exercising control over or splitting fees with licensed medical professionals; and
- similar foreign laws and regulations in the countries in which we operate or may operate in the future.

As a clinical laboratory, our business practices may face additional scrutiny from various government agencies such as the Department of Justice, the U.S. Department of Health and Human Services Office of

[Table of Contents](#)

Inspector General, or OIG, and CMS. Certain arrangements between clinical laboratories and referring physicians have been identified in fraud alerts issued by the OIG as implicating the AKS. The OIG has stated that it is particularly concerned about these types of arrangements because the choice of laboratory and the decision to order laboratory tests typically are made or strongly influenced by the physician, with little or no patient input. Moreover, the provision of payments or other items of value by a clinical laboratory to a referral source could be prohibited under the Stark Law unless the arrangement meets all criteria of an exception. The government has been active in enforcement of these laws against clinical laboratories.

Numerous states have enacted laws prohibiting business corporations, such as us, from practicing medicine and from employing or engaging physicians and other medical professionals (generally referred to as the prohibition against the corporate practice of medicine), which could include physician laboratory directors. These laws are designed to prevent interference in the medical decision-making process by anyone who is not a licensed medical professional. For example, the medical boards of certain states have indicated that determining the appropriate diagnostic tests for a particular condition and taking responsibility for the ultimate overall care of a patient, including making treatment options available to the patient, would constitute the unlicensed practice of medicine if performed by an unlicensed person. Violation of these laws may result in sanctions and civil or criminal penalties. It is possible that governmental authorities may conclude that our business practices, including our consulting and advisory board arrangements with physicians and other healthcare providers, a small number of whom may receive stock or stock options as compensation for services provided, do not comply with current or future corporate practice of medicine statutes, regulations, agency guidance or case law.

The growth and international expansion of our business may increase the potential of violating applicable laws and regulations. The risk is further increased by the fact that many such laws and regulations have not been fully interpreted by the regulatory authorities or the courts, and their provisions are open to a variety of interpretations. Efforts to ensure that our internal operations and business arrangements with third parties comply with applicable laws and regulations will involve substantial costs. Any action brought against us for violation of these or other laws or regulations, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. Any of the foregoing consequences could seriously harm our business, financial condition and results of operations. To the extent our business operations are found to be in violation of any of these laws or regulations, we may be subject to significant civil, criminal and administrative penalties, including, without limitation, damages, monetary fines, individual imprisonment, disgorgement of profits, possible exclusion from participation in Medicare, Medicaid and other healthcare programs, contractual damages, reputational harm, diminished profits and future earnings, additional reporting or oversight obligations if we become subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with the law and curtailment or restructuring of our operations, any of which could adversely affect our ability to operate our business and pursue our strategy. If any of the healthcare providers or other parties with whom we interact or may interact in the future, are found not to be in compliance with applicable laws and regulations, they may be subject to criminal, civil or administrative sanctions, including exclusions from participation in various healthcare programs, which could also negatively affect our business, financial condition and results of operations.

We have received requests for medical records and billing information from certain Unified Program Integrity Contractors, or UPICs, regarding clinical diagnostic services provided by Tempus to patients enrolled in the Medicare and Medicaid programs. Federal and state governments continue to pursue enforcement policies resulting in a significant number of investigations, inspections, audits, citations of regulatory deficiencies, and other regulatory sanctions including demands for refund of overpayments, terminations from the Medicare and Medicaid programs, bans on Medicare and Medicaid payments for new admissions, and civil monetary penalties or criminal penalties. These policies may impact our business. For example, on May 19, 2022, we received a subpoena from the Office of the Ohio Attorney General. The subpoena required production of certain billing and patient records associated with nine Ohio Medicaid patients who received our clinical diagnostic tests between 2019 and 2022. We provided responsive documents in June 2022 and have not received any additional inquiry since that time. Similarly, on March 4, 2024, we received a Civil Investigative Demand, or CID, from the U.S.

[Table of Contents](#)

Attorney's Office for the Eastern District of New York. The CID requested documents and other information related to our compliance with the False Claims Act, the Anti-Kickback statute, and in particular 42 C.F.R. § 414.510(b), which is commonly referred to as the Medicare 14-Day Rule. We provided an initial production on April 4, 2024, and expect to continue producing responsive documents on a rolling basis over the next several months. While the Company believes its programs and payments comply with the Anti-Kickback statute, no assurance can be given as to the timing or outcome of the government's investigation, or that it will not result in a material adverse effect on the Company's business.

In addition, we expect audits under the CMS Recovery Audit Contractor, or RAC, program, the CMS Targeted Probe and Educate, or TPE, program, the UPIC program and other federal and state audits evaluating the medical necessity of services to further intensify the regulatory environment surrounding the healthcare industry as third-party firms engaged by CMS and others conduct extensive reviews of Tempus' claims data and medical and other records to identify improper payments to healthcare providers under the Medicare and Medicaid programs. If we fail to comply with the extensive laws, regulations and prohibitions applicable to our businesses, we could become ineligible to receive government program reimbursement, suffer civil or criminal penalties, or be required to make significant changes to our operations and refund certain payments we have received. In addition, we could be forced to expend considerable resources responding to investigations, audits or other enforcement actions related to these laws, regulations or prohibitions.

Our status as both a healthcare company and a technology company presents unique complexities when attempting to comply with these myriad laws and regulations. For example, certain data services we provide as a technology company may result in compensating other healthcare providers for access to data or the right to commercialize de-identified data. While such services, standing alone, appear routine, the compliance issues become more complex when considering our status as a healthcare provider that performs clinical diagnostic testing on behalf of healthcare providers. We have implemented programs to ensure we comply with all applicable laws and regulations notwithstanding these complexities; however, we cannot guarantee we will be successful in doing so, or that government enforcement agencies will agree that our efforts have been sufficient. Accordingly, we may be subject to enforcement actions that could materially impact our reputation, operations, and results.

If the validity of an informed consent from patients regarding our tests was challenged, we could be forced to stop offering our products or using our resources, and our business, financial condition and results of operations could be negatively affected.

We seek to ensure that all data and biological samples that we receive have been collected from patients, subjects or participants who have provided the necessary informed consent for purposes that extend to our development activities. In many instances, our ability to obtain these consents requires the physician or hospital system ordering the diagnostic system to obtain the consent of the patient and to attest that they have done so on our requisition forms. We also have certain relationships where data and samples, and certain data licensed to us by third parties, are provided to us in a de-identified manner. The collection and analysis of data and samples in many different jurisdictions results in complex legal questions regarding the adequacy of informed consent and the status of genetic material. Therefore, with respect to data and samples received from our customers, we rely on physicians and hospital systems to comply, and with regard to data received from our suppliers, we rely on these third parties to comply, with the informed consent requirements and with applicable local law regarding informed consent. The subject's informed consent obtained in any particular jurisdiction could be challenged in the future, and that consent could prove invalid, unlawful or otherwise inadequate for our purposes. Any findings against us, or our customers or suppliers, could deny us access to or force us to stop using some of our data and clinical samples, which would hinder our product development efforts, potentially involve us in costly and prolonged litigation, result in reputational harm and adversely affect our business, financial condition and results of operations.

We may be subject to fines, penalties, licensure requirements, or legal liability, if it is determined that through our test reports we are practicing medicine without a license.

Many of our test reports delivered to physicians provide information regarding therapies and clinical trials that physicians may use in making treatment decisions for their patients and certain other reports provide pharmacogenomic information. We make members of our organization available to discuss the information provided in the reports. Certain state laws prohibit the practice of medicine without a license. Our customer service representatives and medical affairs team provide support to our customers, including assistance in interpreting the test report results. A governmental authority or other parties could allege that the identification of available therapies and clinical trials in our reports and the related customer service we provide constitute the practice of medicine. A state may seek to have us discontinue the inclusion of certain aspects of our test reports or the related services we provide, or subject us to fines, penalties, or licensure requirements. Any determination that we are practicing medicine without a license may result in significant liability to us, and our business, financial condition and results of operations would be harmed.

Our billing and claim processing are complex and time-consuming, and any delay in submitting claims or failure to comply with applicable billing requirements could hinder collection and have an adverse effect on our revenue.

Billing for our diagnostic tests is complex, time-consuming and expensive. Depending on the billing arrangement and applicable law, we bill various payers, such as Medicare, Medicaid, health plans, insurance companies, hospital systems, providers, and patients, all of which may have different billing requirements. Several factors make the billing process complex, including:

- differences between the list prices for our test, the reimbursement rates of payers, the amounts we charge healthcare institutions directly, and the cost to patients who pay for our tests out-of-pocket;
- compliance with complex federal and state regulations related to billing government healthcare programs, including Medicare and Medicaid, to the extent our tests are covered by such programs;
- differences in coverage among payers and the effect of patient co-payments or co-insurance;
- differences in information, pre-authorization and other billing requirements among payers;
- changes to codes and coding instructions governing our tests;
- incorrect or missing billing information; and
- the resources required to manage the billing and claim appeals process.

These billing complexities and the related uncertainty in obtaining payment for our tests could negatively affect our revenue and cash flow, our ability to achieve profitability and the consistency and comparability of our results of operations. In addition, if claims for our tests are not submitted to payers on a timely basis, or if we fail to comply with applicable billing requirements, it could have an adverse effect on our business, financial condition and results of operations.

In addition, the coding procedure used by third-party payers to identify various procedures, including our tests, during the billing process is complex, does not adapt well to our tests and may not enable coverage and adequate reimbursement rates. Third-party payers usually require us to identify the test for which we are seeking reimbursement using a CPT code. CPT coding plays a significant role in how our diagnostic tests are reimbursed both from commercial and governmental payers. For example, historically, no CPT code comprehensively describes our NGS oncology tests. In the past, we submitted claims using individual codes or combinations of codes based on the cancer subtype profiled. Over time, in response to guidance from payers and our local MAC, we transitioned from using individual gene codes, or combinations of individual gene codes, to using “panel” CPT codes. With the introduction of new codes that are potentially applicable to comprehensive genomic profiling tests like the ones we offer, we are in the process of updating our approach again. Despite our diligence in developing a comprehensive billing strategy that accurately describes the tests we provide, payers, such as the

[Table of Contents](#)

Local MACs, have in the past and may in the future disagree with our CPT code selection and instruct us to submit our claims using a different designated CPT code. Any disputes over appropriate coding, or requirements that we submit claims under codes with lower reimbursement rates, may materially adversely affect our business financial condition and results of operations,

Use of coding for billing our products that does not describe a specific test, requires the claim to be examined to determine what test was provided, whether the test was appropriate and medically necessary, and whether payment should be rendered, which may require a letter of medical necessity from the ordering physician. This process has in the past and may in the future result in a delay in processing the claim, a lower reimbursement amount or denial of the claim. For example, we continue to appeal the denials of certain of our NGS oncology tests by the Local MAC. Because billing third-party payers for our tests is an unpredictable, challenging, time-consuming and costly process, we may face long collection cycles and the risk that we may never collect at all, either of which could adversely affect our business, financial condition and results of operations, and we may have to increase collection efforts and incur additional costs.

Because next generation genomic sequencing is a rapidly evolving area of medicine, and because clinical treatment guidelines continue to develop, any changes to, or interpretations of, applicable billing and coding guidance, rules, policies, and procedures may impact our business. Tempus offers multiple diagnostic tests, which enable ordering healthcare providers to sequence both a cancer patient's tissue and blood. Healthcare providers may order multiple tests, either concurrently or longitudinally, even when those distinct tests cover similar genes. Similarly, when a treating healthcare provider orders our tissue-based test, we can provide, and historically have provided when available, distinct test results for DNA and RNA. Effective January 1, 2023, we began billing these tests under separate codes based on American Medical Association guidance and the National Correct Coding Initiative Manual Provider instructions. As of December 31, 2023, approximately 50% of the liquid biopsy tests we provide are ordered in proximity to a solid tissue-based test, and over 85% of our solid tissue-based tests include both RNA and DNA results. In each case, while the ordering physician attests to each distinct test's medical necessity, there is no guarantee that our retrospective or prospective billing practices will not be challenged or reversed, such as by a demand for repayment, recoupment, or prospective billing policies. Any such attempts could adversely affect our results and operations.

Changes in healthcare laws, regulations and policies could increase our costs, decrease our sales and revenue and negatively impact reimbursement for our tests.

In March 2010, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or the ACA, became law. This law substantially changed the way health care is financed by both commercial payers and government payers, and significantly impacted our industry. The ACA contains a number of provisions that impacted existing state and federal healthcare programs or result in the development of new programs, including those governing enrollments in state and federal healthcare programs, reimbursement changes and fraud and abuse. Our business, financial condition and results of operations have been and will continue to be affected by the ACA, including in ways we cannot currently predict.

Since its enactment, there have been efforts to repeal all or part of the ACA. For example, on June 17, 2021 the U.S. Supreme Court dismissed a challenge on procedural grounds that argued the ACA is unconstitutional in its entirety because the "individual mandate" was repealed by Congress. Further, prior to the U.S. Supreme Court ruling on January 28, 2021, President Biden issued an executive order that initiated a special enrollment period for purposes of obtaining health insurance coverage through the ACA marketplace, which began on February 15, 2021 and remained open through August 15, 2021. The executive order also instructed certain governmental agencies to review and reconsider their existing policies and rules that limit access to healthcare, including among others, reexamining Medicaid demonstration projects and waiver programs that include work requirements, and policies that create unnecessary barriers to obtaining access to health insurance coverage through Medicaid or the ACA. It is possible that other challenges to the ACA will be made in the future. Further, on August 16, 2022, President Biden signed the Inflation Reduction Act of 2022, or IRA, into law, which among

[Table of Contents](#)

other things extends enhanced subsidies for individuals purchasing health insurance coverage in the ACA marketplaces through plan year 2025. The IRA also eliminates the “donut hole” under the Medicare Part D program beginning in 2025 by significantly lowering the beneficiary maximum out-of-pocket cost and establishing a new manufacturer discount program. It is unclear how any additional healthcare reform measures of the Biden administration will impact the ACA and our business.

In addition, other legislative changes have been proposed and adopted since the ACA was enacted. On August 2, 2011, the Budget Control Act of 2011 was signed into law, which, among other things, reduced Medicare payments to providers by 2% per fiscal year, effective on April 1, 2013 and, due to subsequent legislative amendments to the statute, will remain in effect through 2032.

We anticipate there will continue to be proposals by legislators at both the federal and state levels, regulators and commercial and government payers to reduce healthcare costs while expanding individual healthcare benefits. Certain of these changes could impose additional limitations on the prices we will be able to charge for our tests, the coverage of, or the amounts of reimbursement available for our tests from commercial and government payers.

We face risks related to handling of hazardous materials and other regulations governing environmental safety.

Our operations are subject to complex and stringent environmental, health, safety and other governmental laws and regulations that both public officials and private individuals may seek to enforce. Our activities that are subject to these regulations include, among other things, our use of hazardous materials in manufacturing and in our products, and the generation, transportation and storage of waste. We could discover that we or our suppliers are not in material compliance with these regulations. Existing laws and regulations may also be revised or reinterpreted, or new laws and regulations may become applicable to us, whether retroactively or prospectively, that may have a negative effect on our business, financial condition and results of operations. It is also impossible to eliminate completely the risk of accidental environmental contamination or injury to individuals. In such an event, we could be liable for any damages that result, which could adversely affect our business, financial condition and results of operations.

We could be adversely affected by violations of the FCPA and other anti-bribery laws.

We are subject to the FCPA, which prohibits companies and their intermediaries from making payments in violation of law to non-U.S. government officials for the purpose of obtaining or retaining business or securing any other improper advantage, as a result of our international operations. We are also subject to similar anti-bribery laws in the jurisdictions in which we operate, including the United Kingdom’s Bribery Act of 2010, which also prohibits commercial bribery and makes it a crime for companies to fail to prevent bribery. These laws are complex and far-reaching in nature, and, as a result, we cannot assure that we would not be required in the future to alter one or more of our practices to be in compliance with these laws or any changes in these laws or the interpretation thereof. Any violations of these laws, or allegations of such violations, could disrupt our operations, involve significant management distraction, cause us to incur significant costs and expenses, including legal fees, and result in a material adverse effect on our business, financial condition and results of operations. We could also suffer severe penalties, including criminal and civil penalties, disgorgement and other remedial measures.

Risks Related to Our Intellectual Property

If we are unable to obtain, maintain and enforce sufficient intellectual property protection for our Platform and products, or if the scope of the intellectual property protection obtained is not sufficiently broad, our competitors or other third parties could develop and commercialize products similar or identical to ours, and our ability to successfully commercialize our products may be impaired.

We rely on patent protection as well as trademark, copyright, trade secret and other intellectual property rights protection and contractual restrictions to protect our Platform, products and other proprietary technologies,

[Table of Contents](#)

all of which provide limited protection and may not adequately protect our rights or permit us to gain or keep any competitive advantage. If we fail to protect our intellectual property, third parties may be able to compete more effectively against us. In addition, we have incurred and may continue to incur substantial litigation costs in our attempts to recover or restrict use of our intellectual property.

To the extent our intellectual property offers inadequate protection, or is found to be invalid or unenforceable, we would be exposed to a greater risk of direct competition. If our intellectual property does not provide adequate coverage of our competitors' products, our competitive position could be adversely affected, as could our business, financial condition and results of operations. Both the patent application process and the process of managing patent disputes can be time-consuming and expensive. Our pending and future owned and licensed patent applications may not result in patents being issued which protect our technology, effectively prevent others from commercializing competitive technologies or otherwise provide any competitive advantage. In fact, patent applications may not issue as patents at all. In addition, the coverage claimed in a patent application can be significantly reduced before the patent is issued, and its scope can be reinterpreted after issuance.

As is the case with other biotechnology companies, our success depends in part on our ability to obtain and maintain protection of the intellectual property we own solely and may own jointly with others or we have licensed and may continue to license from others, particularly patents, in the United States and other countries with respect to our products and technologies. We apply for patents covering our products and technologies and uses thereof, as we deem appropriate. However, obtaining and enforcing patents, and specifically biotechnology patents, is costly, time-consuming and complex, and we may fail to apply for patents on important products, services and technologies in a timely fashion or at all, or we may fail to apply for patents in potentially relevant jurisdictions. We may not be able to obtain or maintain patent applications and patents due to the subject matter claimed in such patent applications and patents being in disclosures in the public domain. In some cases, the inventions we attempt to patent may have been previously discovered by others and entered the public domain, which may preclude our ability to obtain patent protection for such inventions. We may not be able to file and prosecute all necessary or desirable patent applications, or maintain, enforce and license any patents that may issue from such patent applications, at a reasonable cost or in a timely manner. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. Although we enter into nondisclosure and confidentiality agreements with parties who have access to confidential or patentable aspects of our research and development output, such as our employees, corporate collaborators, outside scientific collaborators, contract manufacturers, consultants, advisors and other third parties, any of these parties may breach these agreements and disclose such output before a patent application is filed, thereby jeopardizing our ability to seek patent protection. Moreover, we may not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the rights to patents licensed to us. Therefore, these patents and applications may not be prosecuted and enforced in a manner consistent with the best interests of our business.

We own or license numerous U.S. patents and pending U.S. patent applications, with international counterparts in certain countries. It is possible that our or our licensors' pending patent applications will not result in issued patents in a timely fashion or at all, and even if patents are granted, they may not provide a basis for intellectual property protection of commercially viable products or services, may not provide us with any competitive advantages, or may be challenged and invalidated by third parties. It is possible that others will design around our current or future patented technologies to circumvent our owned or licensed patents by developing similar or alternative technologies or therapeutics in a non-infringing manner. If the patent protection provided by the patents and patent applications we own or license is not sufficiently broad to impede such competition, our ability to successfully commercialize our products could be negatively affected, which could have a material adverse effect on our business, financial condition and results of operations. Some of our patent rights may be challenged in the future, including at the United States Patent and Trademark Office, or USPTO, in post-grant proceedings, at the European Patent Office, or EPO, in opposition proceedings. We may not be successful in defending any such challenges made against our owned or licensed patents or patent applications. Any successful third-party challenge to such patent rights could result in their unenforceability or invalidity and increased competition to our business. We have challenged and may choose to challenge the patents or patent

applications of third parties. The outcome of patent litigation or other proceeding can be uncertain, and any attempt by us to enforce our patent rights against others or to challenge the patent rights of others may not be successful, or, if successful, may take substantial time and result in substantial cost, and may divert our efforts and attention from other aspects of our business.

The patent positions of life sciences companies can be highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. As a result, the issuance, scope, validity, enforceability and commercial value of any patent rights are highly uncertain. No consistent policy regarding the breadth of claims allowed in such companies' patents has emerged to date in the United States or elsewhere. Courts frequently render opinions in the biotechnology field that may affect the patentability of certain inventions or discoveries, including opinions that may affect the patentability of methods for analyzing or comparing DNA sequences.

In particular, the patent positions of companies engaged in the development and commercialization of genomic and algorithmic diagnostic tests, like our current products and services, and our future products, are particularly uncertain. Various courts, including the U.S. Supreme Court, have rendered decisions that affect the scope of patentability of certain inventions or discoveries relating to certain diagnostic tests and related methods. These decisions state, among other things, that a patent claim that recites an abstract idea, natural phenomenon or law of nature (for example, the relationship between particular genetic variants and cancer) are not themselves patentable. Precisely what constitutes an abstract idea, natural phenomenon or law of nature is uncertain, and it is possible that certain aspects of genetic or algorithmic diagnostics tests would be found not patentable. Accordingly, the evolving legal and administrative standards around the world, including in the United States may adversely affect our ability to obtain patents and may facilitate third-party challenges to any owned or licensed patents. The laws of some foreign jurisdictions do not protect intellectual property rights to the same extent as the laws of the United States, and we may encounter difficulties in protecting and defending such rights in foreign jurisdictions. The legal systems of many foreign jurisdictions do not favor the enforcement of patent rights and other intellectual property protection, particularly those relating to biotechnology, which could make it difficult for us to stop the infringement of our patent rights and other violations of our intellectual property rights thereunder. Proceedings to enforce our patent rights and other intellectual property protection in foreign jurisdictions could result in substantial cost and divert our efforts and attention from other aspects of our business.

Changes in patent law in the United States and other jurisdictions could diminish the value of patents in general, thereby impairing our ability to protect our Platform and products.

Changes in either the patent laws or in interpretations of patent laws in the United States or other countries or regions may diminish the value of our intellectual property. We cannot predict the breadth of claims that may be allowed or enforced in our patents or in third-party patents. We may not develop additional proprietary products, methods and technologies that are patentable.

Assuming that other requirements for patentability are met, prior to March 16, 2013, in the United States, the first to invent the claimed invention was entitled to the patent, while outside the United States, the first to file a patent application was entitled to the patent. On or after March 16, 2013, under the Leahy-Smith America Invents Act, or the America Invents Act, enacted in September 16, 2011, the United States transitioned to a first inventor to file system in which, assuming that other requirements for patentability are met, the first inventor to file a patent application will be entitled to the patent on an invention regardless of whether a third party was the first to invent the claimed invention. A third party that files a patent application in the USPTO on or after March 16, 2013, but before us could therefore be awarded a patent covering an invention of ours even if we had made the invention before it was made by such third party. This will require us to be cognizant of the time from invention to filing of a patent application. Since patent applications in the United States and most other countries are confidential for a period of time after filing or until issuance, we cannot be certain that we or our licensors were the first to either (i) file any patent application related to our products or (ii) invent any of the inventions claimed in our or our licensor's patents or patent applications.

The America Invents Act also includes a number of significant changes that affect the way patent applications are prosecuted and also affect patent litigation. These include allowing third-party submission of prior art to the USPTO during patent prosecution and additional procedures to challenge the validity of a patent by USPTO administered post-grant proceedings, including post-grant review, *inter partes* review and derivation proceedings, to attack the validity of a patent. Because of a lower evidentiary standard in USPTO proceedings compared to the evidentiary standard in United States federal courts necessary to invalidate a patent claim, a third party could potentially provide evidence in a USPTO proceeding sufficient for the USPTO to hold a claim invalid even though the same evidence might not be sufficient to invalidate the claim if presented in a district court action. Accordingly, third parties have used and may continue to use the USPTO proceedings to invalidate our patent claims that would not have been invalidated if first challenged by the third party in a district court action. Therefore, the America Invents Act and its implementation could increase the uncertainties and costs surrounding our or our licensors' prosecution of patent applications and enforcement or defense of issued patents, all of which could have a material adverse effect on our business, financial condition and results of operations.

The patent positions of companies engaged in the development and commercialization of biotechnology and software are particularly uncertain. Court rulings may narrow the scope of patent protection available in certain circumstances and weaken the rights of patent owners in certain situations. We cannot predict how decisions by the courts, the U.S. Congress or the USPTO may impact the value of our patents. Any similar adverse changes in the patent laws of other jurisdictions could also have a material adverse effect on our business, financial condition and results of operations. Depending on future actions by the U.S. Congress, the federal courts and the USPTO, the laws and regulations governing patents could change in unpredictable ways that could have a material adverse effect on our existing patent portfolio and our ability to protect and enforce our intellectual property in the future. Any of the foregoing could have a material adverse effect on our business, financial condition and results of operations.

Issued patents covering our Platform or products could be found invalid or unenforceable if challenged.

Our owned and licensed patents and patent applications may be subject to priority, validity, inventorship and enforceability disputes. If we or our licensors are unsuccessful in any of these proceedings, such patents and patent applications may be narrowed, invalidated or held unenforceable and we may be required to obtain licenses from third parties, which may not be available on commercially reasonable terms or at all, or we may be required to cease the development, manufacture and commercialization the products we may develop. Any of the foregoing could have a material adverse effect on our business, financial condition and results of operations.

The issuance of a patent is not conclusive as to its inventorship, scope, validity or enforceability and our owned and licensed patents may be challenged in courts or patent offices in the United States and abroad. Some of our owned or licensed patent rights may be challenged at a future point in time in opposition, derivation, re-examination, *inter partes* review, post-grant review or interference proceedings and other similar proceedings in foreign jurisdictions. Any successful third-party challenge to our patent rights in this or any other proceeding could result in the narrowing, unenforceability or invalidity, in whole or in part, of such patent rights, which may lead to increased competition to our business, which could harm our business, financial condition and results of operations. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, regardless of the outcome, it could dissuade companies from collaborating with us to license, develop or commercialize our current or future products.

We may not be aware of all third-party intellectual property rights potentially relating to our Platform and products. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and patent applications in the United States and other jurisdictions are typically not published until approximately 18 months after filing or, in some cases, not until such patent applications issue as patents. We might not have been the first to make the inventions covered by each of our pending patent applications and we might not have been the first to file patent applications for these inventions. To determine the priority of these inventions, we may participate in interference proceedings, derivation proceedings or other post-grant proceedings declared by the

[Table of Contents](#)

USPTO that could result in substantial cost to us. The outcome of such proceedings is uncertain. No assurance can be given that other patent applications will not have priority over our patent applications. In addition, changes to the patent laws of the United States allow for various post-grant opposition proceedings that have not been extensively tested, and their outcome is therefore uncertain. Our licensors may also license patent rights to others, and we may not be aware of such licenses before they are granted or such licenses may be subject to disputes or uncertainties that affect patent rights licensed by us or could limit our ability to enforce such patent rights. If third parties bring actions against our owned or licensed patent rights, we could experience significant costs and management distraction.

In patent litigation in the United States or abroad, defendant counterclaims alleging invalidity or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness, written description, non-enablement or failure to claim patent-eligible subject matter. Grounds for an unenforceability assertion could include an allegation that someone connected with prosecution of the patent withheld relevant information from the USPTO or made a misleading statement during prosecution. Similar claims may also be raised before administrative bodies in the United States or abroad, even outside the context of litigation, through mechanisms including re-examination, post-grant review and equivalent proceedings in foreign jurisdictions (e.g., opposition proceedings). Such proceedings could result in revocation or amendment to our patent rights in such a way that they no longer cover our Platform and products. The outcome of patent litigation or patent office proceedings following assertions of invalidity and unenforceability is unpredictable. With respect to the validity question, for example, we cannot be certain that there is no invalidating prior art, of which we and our licensing partners and the patent examiner were unaware during prosecution. If a third party were to prevail on a legal assertion of invalidity and/or unenforceability, we would lose at least part, and perhaps all, of the patent protection on our Platform and products. Such a loss of patent protection could have a material adverse impact on our business, financial condition and results of operations.

We and our licensors may initiate or become involved in legal proceedings against a third party to enforce a patent covering our Platform or one of our products. Defendants in such proceedings could counterclaim that the patents covering our Platform or product are invalid or unenforceable and could institute legal proceedings to challenge such patents both in court and before patent offices.

The intellectual property landscape in the next generation sequencing, generative AI, and other fields in which we operate continues to evolve in ways that may impact our business. For example, we are aware of patent litigation involving certain disciplines in which we operate, such as liquid biopsy sequencing methods and minimal residual disease testing methods. While we are not a party to these suits, many of our competitors are or have been, including Guardant Health, Inc., Haystack Oncology, Inc., Invitae Corp., Illumina, Inc., Natera, Inc., NeoGenomics Laboratories, Inc., Personalis, Inc., TwinStrand Biosciences, Inc., and others, and, as a result, we have monitored and continue to monitor their developments and their potential impact on the Company. Given the uncertainty of outcomes of patent litigation disputes, we have not determined whether our products and services could be subject to potential claims of patent infringement based on the patents at issue in these or other cases, whether we may need to modify or change any existing or planned sequencing procedures, or whether any of the patents at issue are valid or enforceable against us. However, it is possible that we will be subject to claims of patent infringement and that we may need to either modify our existing or future sequencing methods or license intellectual property from third parties, both of which could be time consuming and expensive.

From time to time the Company may receive notifications from third parties purportedly asserting certain intellectual property rights with respect to the Company's products and services. For example, on September 21, 2023, SEngine Precision Medicine LLC (including its predecessor corporation SEngine Precision Medicine, Inc.), or SEngine, a company we acquired on October 3, 2023, received a letter from an attorney representing HUB Organoids IP B.V., or HUB Organoids, which states that SEngine's PARIS® test methodologies "appear to share similarities with methods that the HUB has used in its own organoid work." Similarly, on January 30, 2024, we received a letter from an attorney representing Molecular Loop Biosciences, Inc., which states that "[a]fter reviewing specific products made, used or sold by Tempus, Molecular Loop believes that Tempus requires a license

[Table of Contents](#)

to several of the patents in Molecular Loop's patent portfolio." While the letter received on behalf of HUB Organoids contains no specific allegations that SEngine infringes certain patents controlled by HUB Organoids referenced in the letter, and while the letter received on behalf of Molecular Loop contains only generalized allegations that Tempus may infringe certain patents controlled by Molecular Loop referenced in the letter, if any claims against us were made by these parties, including any claim that any portion of our products and services infringes any of the referenced patents, we would defend against such claims, however, there can be no assurances that any such defense would be successful. Moreover, if we are subject to claims of patent infringement, we may need to modify existing methods governing use of our products and services, or license third party intellectual property, at some point in the future, which may be time consuming and expensive or may not be technically feasible.

We rely on licenses from third parties to provide certain products, and if we lose these licenses or if our rights under these licenses are limited, then our business will be adversely impacted.

We are, and we may acquire companies that are, party to various license agreements that grant us rights to use certain intellectual property, including de-identified patient data, AI software, and certain patents and patent applications, typically in certain specified fields of use. Such license agreements impose, and future agreements may impose, various obligations, such as diligence, development, payment, royalty, sublicensing and other obligations on us in order to maintain the licenses. We may need to obtain additional licenses from others to advance our research, development and commercialization activities. Our future licenses may not provide us with exclusive rights to use the licensed intellectual property and technology, or may not provide us with exclusive rights to use such intellectual property and technology in all relevant fields of use and in all territories in which we may wish to develop or commercialize our technology in the future. As a result, we may not be able to prevent competitors or other third parties from developing and commercializing competitive products, including in territories covered by our licenses.

If these licenses are terminated, or if the underlying intellectual property rights fail to provide the intended rights and protections, our ability to develop and commercialize products and technology covered by these license agreements would be limited or lost, and our competitors or other third parties might have the freedom to develop, produce, seek regulatory approval of, or to market, products identical or similar to ours and we may be required to cease our development and commercialization activities. Our actual or potential licensors could also take action with respect to our licensed intellectual property that may decrease the value of such licensed intellectual property. Any of the foregoing could have a material adverse effect on our business, financial condition and results of operations.

Moreover, disputes could arise with respect to any aspect of our license agreements, including:

- the scope of rights granted under the license agreement and other interpretation-related issues;
- our financial or other obligations under the license agreement;
- the extent to which our Platform, products, and processes infringe, misappropriate, or otherwise violate the intellectual property of the licensor that is not subject to the licensing agreement;
- the licensing of patent and other rights controlled by our licensors or developed under our collaborative development relationships to others;
- the sublicensing of patent and other rights;
- the inventorship and ownership of inventions and know-how licensed to us or resulting from the joint creation or use of intellectual property by our licensors, us and/or our partners; and
- the validity, enforceability or priority of licensed patent rights.

If we do not prevail in such disputes, we may lose any of such license agreements, the license agreements may not be meaningful for our business and operations, and we may be subject to unnecessary or additional payment obligations.

[Table of Contents](#)

In addition, the agreements under which we currently license intellectual property or technology from third parties are complex, and certain provisions in such agreements could be susceptible to multiple interpretations. The resolution of any such contract interpretation disagreement could narrow what we believe to be the scope of our rights to the relevant intellectual property or technology, or increase what we believe to be our financial or other obligations under the relevant agreement, either of which could have a material adverse effect on our business, financial condition and results of operations. Moreover, if disputes over licensed intellectual property impair our ability to enforce licensed intellectual property against third parties or use it to defend ourselves in litigation, the value of such licensed intellectual property may be diminished.

Additionally, our licenses may be subject to certain rights of third parties, and, as a result, our current and future licenses may not provide us with exclusive rights to use the licensed intellectual property and technology. Such licenses may be subject to reservations of rights including certain non-commercial rights reserved by universities and certain rights retained by the U.S. government, including march-in rights. Patents licensed to us could be put at risk of being invalidated or interpreted narrowly in litigation filed by or against our licensors or another licensee or in administrative proceedings brought by or against our licensors or another licensee in response to such litigation or for other reasons. As a result, we may not be able to prevent competitors or other third parties from developing and commercializing competitive products, including in territories covered by our licenses.

If we fail to maintain our current licensing arrangements on commercially acceptable terms, we may be unable to successfully develop and commercialize the affected product, which could have a material adverse effect on our business, financial condition and results of operations. If any of these license agreements is terminated, if the licensor fails to abide by the terms of the license agreement, if the licensor fails to prevent infringement, misappropriation, or other violations by third parties, or if the licensed patent or other rights are found to be invalid or unenforceable, we may lose our rights to develop and market our technology, may be unable to achieve our business goals and our results of operations and financial condition could be adversely affected. In addition, we may seek to obtain additional licenses from our licensors and, in connection with obtaining such licenses, we may agree to amend our existing licenses in a manner that may be more favorable to the licensors, including by agreeing to terms that could enable third parties, including our competitors, to receive licenses to a portion of the intellectual property that is subject to our existing licenses and to compete with our products. Absent the license agreements, we could infringe, misappropriate or otherwise violate patents or other intellectual property rights subject to those agreements, and if the license agreements are terminated, we may be subject to litigation by the licensor. Litigation could result in substantial costs and be a distraction to management. If we do not prevail, we may be required to pay damages, including treble damages, attorneys' fees, costs and expenses, royalties or, be enjoined from selling our products and services, including our tests, which could adversely affect our ability to offer products and our business, financial condition and results of operations.

If we cannot license and maintain rights to use third-party intellectual property on reasonable terms, we may not be able to successfully commercialize our products. Our licensed or acquired technology may lose value or utility over time.

From time to time, we may identify third-party intellectual property we may need, including to develop or commercialize new products. We may also need to negotiate licenses before or after introducing a commercial product, and we may not be able to obtain necessary licenses to such intellectual property. The licensing or acquisition of third party intellectual property rights is a competitive area, and several more established companies may pursue strategies to license or acquire third party intellectual property rights that we may consider attractive or necessary. These established companies may have a competitive advantage over us due to their size, capital resources and greater clinical development and commercialization capabilities. In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. We also may be unable to license or acquire third party intellectual property rights on terms that would allow us to make an appropriate return on our investment or at all. If we are unable to enter into the necessary licenses on acceptable terms or at all, if any necessary licenses are subsequently terminated, if the licensors fail to abide by the terms of the licenses or fail to prevent infringement, misappropriation, or other violations by third parties, or if the

licensed patents or other rights are found to be invalid or unenforceable, our business, financial condition and results of operations may suffer. In addition, any technology licensed or acquired by us may lose value or utility, including as a result of a change in the industry, in our business objectives, others' technology, our dispute with the licensor, and other circumstances outside our control. In return for the use of a third party's technology, we may agree to pay the licensor royalties based on sales of our products or services. Royalties are a component of the cost of products and affect the margins on our products. If we are unable to negotiate reasonable royalties or if we have to pay royalties on technology that becomes less useful for us or ceases to provide value to us, our profit margin will be reduced and we may suffer losses.

We may not be able to protect or enforce our intellectual property rights adequately throughout the world.

Filing, prosecuting and defending patents and trademarks on our Platform and products in all countries throughout the world would be prohibitively expensive, and our intellectual property rights in some territories outside the United States are less extensive than those in the United States. In some cases, we or our licensors may not be able to obtain patent or trademark protection for certain technology outside of the United States. In addition, the laws of some foreign countries and regions do not protect intellectual property rights to the same extent as the federal and state laws in the United States, and we may encounter difficulties in protecting and defending such rights in foreign jurisdictions where we do pursue patent or trademark protection. Consequently, we may not be able to prevent third parties from practicing our inventions in all jurisdictions, or from selling or importing products made using our inventions in and into the United States or other jurisdictions. Competitors may use our inventions in jurisdictions where we have not pursued and obtained patent protection to develop their own products and may also export otherwise infringing products to territories where we have patent protection, but enforcement is not as strong as that in the United States. These products may compete with our products. Our patents or other intellectual property rights existing outside the United States may not be effective or sufficient to prevent them from competing. Similarly, intellectual property rights may be exhausted in certain situations, and others could import our products sold abroad and compete with us domestically.

Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain countries and regions, and particularly developing countries, do not favor the enforcement of patents, trademarks, trade secrets and other intellectual property protection, particularly those relating to biotechnology products, which could make it difficult for us to stop the infringement, misappropriation or other violations of our patents, trademarks or other intellectual property, or marketing of competing products in violation of our intellectual property rights generally in such jurisdictions. Proceedings to enforce our patent or other intellectual property rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents or other intellectual property at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing, and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded to us, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our intellectual property rights around the world may be inadequate to obtain a significant commercial advantage.

Many countries have compulsory licensing laws under which a patent owner may be compelled to grant licenses to third parties. In addition, many countries limit the enforceability of patents against government agencies or government contractors. In these countries, the patent owner may have limited remedies, which could materially diminish the value of such patent. If we or any of our licensors is forced to grant a license to third parties with respect to any patents relevant to our business, our business, financial condition and results of operations could be materially and adversely affected.

If we are unable to protect the confidentiality of our trade secrets, the value of our Platform and other technology could be materially adversely affected and our business could be harmed.

In addition to pursuing patents on our Platform and other technology, we take steps to protect our intellectual property and proprietary know-how and technology that is not patentable or that we elect not to patent, including certain of our algorithms and software. We seek to protect our trade secrets and proprietary know-how and technology by entering into agreements, including confidentiality agreements, non-disclosure agreements and intellectual property assignment agreements, with our employees, consultants, academic institutions, corporate partners and, when needed, our advisers. However, we cannot be certain that such agreements have been entered into with all relevant parties, and we cannot be certain that our trade secrets and other proprietary information will not be disclosed or that competitors or other third parties will not otherwise gain access to our trade secrets or independently develop substantially equivalent information and techniques. For example, any of these parties may breach the agreements and disclose our proprietary information, including our trade secrets, and we may not be able to obtain adequate remedies for such breaches. Such agreements may not be enforceable or may not provide meaningful protection for our trade secrets or other proprietary information in the event of unauthorized use or disclosure or other breaches of the agreements, and we may not be able to prevent such unauthorized use or disclosure. If we are required to assert our rights against such party, it could result in significant cost and distraction.

Monitoring unauthorized use or disclosure is difficult, and we do not know whether the steps we have taken to prevent such use or disclosure are, or will be, adequate. If we were to enforce a claim that a third party had illegally obtained and was using our trade secrets, it would be expensive and time-consuming, and the outcome would be unpredictable. In addition, trade secrets can be difficult to protect and some courts inside and outside the United States are less willing or unwilling to protect trade secrets.

We also seek to preserve the integrity and confidentiality of our proprietary information by maintaining physical security of our premises and physical and electronic security of our information technology systems, but it is possible that these security measures could be breached and we may not have adequate remedies for any breach. If any of our confidential proprietary information were to be lawfully obtained or independently developed by a competitor, absent patent protection, we would have no right to prevent such competitor from using that technology or information to compete with us, which could harm our competitive position.

We may be subject to claims that our employees, consultants or independent contractors have wrongfully used or disclosed confidential information of third parties or that our employees have wrongfully used or disclosed trade secrets of their former employers.

We have employed or engaged and expect to employ or engage individuals who were previously employed at or associated with universities or other companies, including our competitors or potential competitors. Although we try to ensure that our employees, consultants and independent contractors do not use the proprietary information or know-how of others in their work for us, we have in the past been, and may again in the future be, subject to claims that our employees, consultants or independent contractors have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers or other third parties, or to claims that we have improperly used or obtained such trade secrets. Litigation may be necessary to defend against these claims. If we lose, in addition to paying monetary damages, we may be deprived of valuable intellectual property and face increased competition. A loss of key research personnel or work product could hamper or prevent our ability to commercialize potential products, which could harm our business. Even if we are successful in defending against these claims, litigation could result in damage to our reputation and substantial costs and be a distraction to management and affected individuals.

We may not be able to protect and enforce our trademarks and we could infringe or otherwise violate others' trademarks and if our trademarks are not adequately protected, then we may not be able to build name recognition in our markets of interest.

We have not yet registered trademarks in all of our potential markets, although we have registered Tempus and certain diagnostic test names for certain classes of goods and services in the United States. If we apply to register additional trademarks in the United States and other countries, our applications may not be allowed for registration in a timely fashion or at all, and our registered trademarks may not be maintained or enforced and our trademarks may be challenged, infringed, circumvented or declared generic or determined to be infringing on or otherwise violating another mark. For example, opposition or cancellation proceedings may be filed against our trademark applications and registrations, and our trademarks may not survive such proceedings. Such proceedings can be expensive and time-consuming, particularly for a company of our size. If we do not timely register and enforce marks used in connection with our Platform or products, we may encounter difficulty in enforcing them against third parties, and if these marks are registered by others, we could infringe or otherwise violate such trademarks.

We may not be able to protect our rights to these trademarks, which we need to build name recognition among potential partners or customers in our markets of interest. At times, competitors or other third parties may adopt trademarks similar to ours, thereby impeding our ability to build brand identity and possibly leading to market confusion. In addition, there could be potential trademark infringement or other violation claims brought by owners of other registered trademarks or trademarks that incorporate variations of our registered or unregistered trademarks. Over the long term, if we are unable to establish name recognition based on our trademarks, then we may not be able to compete effectively and our business may be adversely affected. Our efforts to enforce or protect our proprietary rights related to trademarks may be ineffective and could result in substantial costs and diversion of resources. Any of the foregoing could have a material adverse effect on our business, financial condition and results of operations.

We may be subject to claims challenging the inventorship or ownership of our owned or licensed intellectual property or claims asserting ownership of what we regard as our own intellectual property.

While it is our policy to require our employees and contractors who may be involved in the conception or development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who, in fact, conceives or develops intellectual property that we regard as our own. Moreover, even when we obtain agreements assigning intellectual property to us, the assignment of intellectual property rights may not be self-executing or the assignment agreements may be breached, and we may be forced to bring claims against third parties, or defend claims that they may bring against us, to determine the ownership of what we regard as our intellectual property. Furthermore, individuals executing agreements with us may have preexisting or competing obligations to a third party, such as an academic institution, and thus an agreement with us may be ineffective in perfecting ownership of inventions developed by that individual. Disputes about the ownership of intellectual property that we may own may have a material adverse effect on our business, financial condition and results of operations. In addition, former employees may refuse to assign certain intellectual property rights to us, even though we have agreements requiring them to do so. Our ability to enforce our contractual rights may require us to seek legal action, which could be costly and time-intensive.

We or our licensors may be subject to claims that former employees, collaborators or other third parties have an interest in or right to our owned or licensed patents, trade secrets or other intellectual property. For example, we or our licensors may have inventorship disputes arise from conflicting obligations of employees, consultants or others who are involved in developing such intellectual property. Litigation may be necessary to defend against these and other claims challenging inventorship or ownership of our owned or licensed patents, trade secrets or other intellectual property. If we or our licensors fail in defending against any such claims, in addition to paying monetary damages, we may lose exclusive ownership of, or right to use, valuable intellectual property. An inability to incorporate such technologies or features would harm our business and may prevent us

[Table of Contents](#)

from successfully commercializing our products or at all. In addition, we may lose personnel as a result of such claims and any such litigation or the threat thereof may adversely affect our ability to hire employees or contract with independent contractors. A loss of key personnel or their work product could hamper or prevent our ability to commercialize our products. Even if we are successful in defending against such claims, litigation could result in damage to our reputation and substantial costs and be a distraction to management and other employees. Any of the foregoing could have a material adverse effect on our business, financial condition and results of operations.

We may become involved in litigation and other legal proceedings alleging that we are infringing, misappropriating or otherwise violating third-party intellectual property rights, or asserting our intellectual property rights, which could be time-intensive and costly and may adversely affect our business, financial condition and results of operations.

We may become involved with litigation or USPTO actions with various third parties. We expect that the number of such claims may increase as the number of our products grows, and the level of competition in our industry segments increases. Given the vast number of patents in our field of technology, we cannot be certain or guarantee that we do not infringe existing patents or that we will not infringe patents that may be granted in the future. Many companies and institutions have filed, and continue to file, patent applications related to the development and commercialization of genomic and algorithmic diagnostic tests. Some of these patent applications have already been allowed or issued and others may issue in the future. Since this area is competitive and of strong interest to biotechnology companies, there will likely be additional patent applications filed and additional patents granted in the future, as well as additional research and development programs expected in the future. If a patent holder believes the manufacture, use, sale or importation of our products infringe its patent, the patent holder may sue us even if we own or have licensed other patent protection for our technology. The biotechnology industry is characterized by extensive and complex litigation regarding patents and other intellectual property rights. Moreover, we face and expect to continue to face allegations of patent infringement, and we may face claims regarding such allegations, from nonpracticing entities that have no relevant product revenue and against whom our owned or licensed patent portfolio may therefore have no deterrent effect. Any infringement claim, regardless of its validity, could harm our business by, among other things, resulting in time-consuming and costly litigation, diverting management's time and attention from the development of our business, or requiring the payment of monetary damages (including treble damages, attorneys' fees, costs and expenses if we are found to have willfully infringed) and ongoing royalties.

Litigation may be necessary for us to enforce our intellectual property and proprietary rights or to determine the scope, coverage and validity of the intellectual property and proprietary rights of others. The outcome of such lawsuits, as well as any other litigation or proceeding, is inherently uncertain and might not be favorable to us. Further, we could encounter delays in product introductions, or interruptions in the sale of products, as we develop alternative products. In addition, if we resort to legal proceedings to enforce our intellectual property rights or to determine the validity, scope and coverage of the intellectual property or other proprietary rights of others, the proceedings could be burdensome and expensive, even if we were to prevail. If we do not prevail in such legal proceedings, we may be required to pay damages, and we may lose significant intellectual property protection for our products, such that competitors could copy our products. Any litigation that may be necessary in the future could result in substantial costs and diversion of resources and could have a material adverse effect on our business, financial condition and results of operations.

As we move into new markets and applications for our Platform or products, incumbent participants in such markets may assert their patents and other intellectual property or proprietary rights against us as a means of slowing our entry into such markets or as a means to extract substantial license and royalty payments from us. As our business matures and our public profile grows, we may also be subject to an increased number of allegations of patent infringement, whether by our competitors or other patent owners, both in the United States and throughout the world wherever we seek to commercialize our products. Our competitors and others may have significantly larger and more mature patent portfolios than we have. In addition, while we can assert our own patents or other rights during litigation, our own patents may provide little or no deterrence or protection against

[Table of Contents](#)

patent holding companies or other patent owners who have no relevant product or service revenue. Therefore, our commercial success may depend in part on our non-infringement of the patents or other rights of third parties and on our success in defending ourselves in litigation.

However, our research, development and commercialization activities may be subject to claims that we infringe or otherwise violate patents or other intellectual property rights owned or controlled by third parties. There is a substantial amount of litigation and other patent challenges, both within and outside the United States, involving patent and other intellectual property rights in the biotechnology industry, including patent infringement lawsuits, interferences, oppositions and *inter partes* review proceedings before the USPTO, and corresponding proceedings before foreign patent offices. Numerous U.S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which we are developing products. As the intelligent medicine and healthcare data analytics industries expand and more patents are issued, the risk increases that our Platform or products may be subject to claims of infringement of the patent rights of third parties. Numerous significant intellectual property issues have been litigated, are being litigated and will likely continue to be litigated, between existing and new participants in our existing and targeted markets, and our competitors have asserted and may in the future assert that our Platform or products infringe, misappropriate or otherwise violate their intellectual property rights as part of a business strategy to impede our successful entry into or growth in those markets, and we may enforce our owned or licensed intellectual property rights against our competitors and other parties.

Third parties may assert that we are employing their patents, proprietary technology or trade secrets without authorization. By interacting with us, our licensors may learn more about our business or technology and could assert additional patent rights against us, such as patent rights that are not currently licensed to us or patent rights that may be obtained by any such licensors in the future, which may occur if such patent rights are not available for licensing or if they are not offered on acceptable or commercially reasonable terms. Because patent applications can take many years to issue and are not publicly available until a certain period of time passes from filing, there may be currently pending patent applications which may later result in issued patents that our current or future products and services may infringe. In addition, similar to what other companies in our industry have experienced, we expect our competitors and others may develop or obtain patents with our Platform or products in mind and claim that making, having made, using, selling, offering to sell or importing our products infringes these patents.

Patent and other types of intellectual property litigation can involve complex factual and legal questions, and their outcome is uncertain. Even if we believe such claims are without merit, a court of competent jurisdiction could hold that these third-party patents are valid, enforceable and infringed, which could adversely affect our ability to commercialize our technology. In order to successfully challenge the validity of any such U.S. patent in federal court, we would need to overcome a presumption of validity. As this burden is a high one requiring us to present clear and convincing evidence as to the invalidity of any such U.S. patent claim, there can be no assurance that a court of competent jurisdiction would invalidate the claims of any such U.S. patent or find that our technology did not infringe any such claims. Further, even if we were successful in defending against any such claims, such claims could require us to incur substantial costs and divert financial resources and the attention of our management and technical personnel in defending against any of these claims. Parties making claims against us may be able to sustain the costs of complex patent litigation more effectively than we can, for example, because they have substantially greater resources.

If any third-party patent were to be asserted against us, there can be no assurance that any defenses will be successful. If our defenses to such assertion were unsuccessful, the third-party making claims against us may be able to obtain injunctive or other relief, including by court order, which could block our ability to develop, commercialize and sell certain products, and could result in the award of substantial damages against us, including treble damages, attorney's fees, costs and expenses if we are found to have willfully infringed. In the event of a successful claim of infringement against us, we may be required to pay damages and ongoing royalties, and obtain one or more licenses from third parties, or be prohibited from selling certain products. Further, we may be required to redesign our technology in a non-infringing manner which may not be

[Table of Contents](#)

commercially feasible. We could also be required or may choose to obtain a license from such third party to continue developing, manufacturing and marketing our technology. However, we may not be able to obtain these licenses on acceptable or commercially reasonable terms, if at all, or these licenses may be non-exclusive, which could result in our competitors gaining access to the same intellectual property. In addition, we could encounter delays in product introductions while we attempt to develop alternative products to avoid infringing third-party patents or otherwise violating proprietary rights. Defense of any lawsuit or failure to obtain any of these licenses could prevent us from commercializing products, and the prohibition of sale of any of our products could materially affect our business and our ability to gain market acceptance for our products. Any of the foregoing could have a material adverse effect on our business, financial condition and results of operations.

Even if resolved in our favor, litigation or other legal proceedings relating to intellectual property claims may cause us to incur significant expenses and could distract our scientific and management personnel from their normal responsibilities. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. In addition, during the course of this kind of litigation, there could be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Such litigation or proceedings could substantially increase our operating losses and reduce the resources available for development activities or any future sales, marketing or distribution activities.

In addition, our agreements with some of our customers, suppliers or other entities with whom we do business require us to defend or indemnify these parties to the extent they become involved in infringement claims, including the types of claims described above. We could also voluntarily agree to defend or indemnify third parties in instances where we are not obligated to do so if we determine it would be important to our business relationships. If we are required or agree to defend or indemnify third parties in connection with any infringement claims, we could incur significant costs and expenses that could adversely affect our business, financial condition and results of operations.

Obtaining and maintaining our patent and trademark protection depends on compliance with various required procedures, document submissions, fee payments and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

Periodic maintenance fees, renewal fees, annuity fees and various other governmental fees on patents and/or applications and trademarks and trademark applications will be due to be paid to the USPTO and various governmental patent agencies outside of the United States at several stages over the lifetime of the patents and/or applications and trademarks and trademark applications. We have systems in place to remind us to pay these fees, and we rely on our outside counsel to pay these fees due to U.S. and non-U.S. patent and trademark agencies. The USPTO and various foreign governmental patent and trademark agencies require compliance with a number of procedural, documentary, fee payment and other similar requirements during the patent and trademark application processes. In many cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with the applicable rules. However, there are situations in which non-compliance can result in abandonment or forfeiture of the patent or patent application or trademark or trademark application and thus the partial or complete loss of patent or trademark rights in the relevant jurisdiction. Such an event would allow our competitors to enter the unprotected market and have a material adverse effect on our business, financial condition and results of operations.

Patent terms may be inadequate to protect our competitive position for an adequate amount of time.

Patents have a limited lifespan. In the United States, if all maintenance fees are timely paid, the natural expiration of a patent is generally 20 years from its earliest U.S. non-provisional filing date. Various extensions may be available, but the life of a patent, and the protection it affords, is limited. Even if patents covering our Platform or products are obtained, once the patent life has expired, we may be open to competition. Given the

amount of time required for the development, testing and regulatory review of our new products, patents protecting them might expire before or shortly after they are commercialized. As a result, our owned and licensed patent portfolio may not provide us with a sufficient exclusivity period to exclude others from commercializing products similar or identical to ours.

Intellectual property rights do not necessarily address all potential threats.

The degree of future protection afforded by our intellectual property rights is uncertain because intellectual property rights have limitations, and may not adequately protect our business or permit us to maintain our competitive advantage. For example:

- others may be able to make products that are similar to ours, but that are not covered by the claims of the patents that we license or may own in the future;
- we, or our license partners or future collaborators, might not have been the first to make the inventions covered by the issued patent or pending patent applications that we license or may own in the future;
- we, or our license partners or future collaborators, might not have been the first to file patent applications covering certain of our or their inventions;
- others may independently develop similar or alternative technologies or duplicate any of our technologies without infringing our owned or licensed intellectual property rights;
- it is possible that our pending licensed patent applications or those that we may own in the future will not lead to issued patents;
- issued patents that we hold rights to now or in the future may be held invalid or unenforceable, including as a result of legal challenges by our competitors;
- others may have access to the same intellectual property rights licensed to us in the future on a nonexclusive basis;
- our competitors might conduct research and development activities in countries where we do not have patent rights and then use the information learned from such activities to develop competitive products for sale in our major commercial markets;
- we may not develop additional proprietary technologies that are patentable;
- the patents or other intellectual property rights of others may have an adverse effect on our business; or
- we may choose not to file a patent for certain trade secrets or know-how, and a third party may subsequently file a patent covering such intellectual property.

Any of the foregoing could have a material adverse effect on our business, financial condition and results of operations.

Our products contain third-party open source software components and failure to comply with the terms of the underlying open source software licenses could restrict our ability to sell our products or may require us to publicly disclose our proprietary software.

Our products contain software tools licensed by third parties under open source software licenses. Use and distribution of open source software may entail greater risks than use of third-party commercial software, as open source software licensors generally do not provide warranties or other contractual protections regarding infringement or other violation claims or the quality of the code. Some open source software licenses contain requirements that the licensee make its source code publicly available if the licensee creates modifications or derivative works using the open source software or provide software services at no cost to the user, depending on the type of open source software the licensee uses and how the licensee uses it. If we combine our proprietary software with open source software in a certain manner, we could, under certain open source software licenses,

be required to release the source code of our proprietary software to the public for free. This would allow our competitors to create similar products with less development effort and time and ultimately could result in a loss of product sales and revenue. In addition, some companies that use third-party open source software have faced claims challenging their use of such open source software, seeking enforcement of open source license provisions, asserting ownership of open source software incorporated in products and demanding compliance with the terms of the applicable open source license. We may be subject to suits by third parties claiming ownership of what we believe to be open source software, or claiming non-compliance with the applicable open source licensing terms. Use of open source software may also present additional security risks because the public availability of such software may make it easier for hackers and other third parties to compromise or attempt to compromise our Platform and systems. If an author or other third party that distributes such open source software were to allege that we had not complied with the conditions of an open source license, we could incur significant legal costs defending ourselves against such allegations. In the event such claims were successful, we could be subject to significant damages or be enjoined from the distribution of our products.

There is little legal precedent and the terms of many open source software licenses have not been interpreted by United States courts, and there is a risk that these licenses could be construed in a way that could impose unanticipated conditions or restrictions on our ability to commercialize our products. Moreover, we cannot assure investors that our processes for monitoring and controlling our use of open source software in our products will be effective. If we are held to have breached the terms of an open source software license, we could be required to seek licenses from third parties to continue offering our products on terms that are not economically feasible, to re-engineer our product, to discontinue the sale of our products if re-engineering could not be accomplished on a timely basis, or to make generally available, in source code form, our proprietary code, any of which could adversely affect our business, financial condition and results of operations.

In addition, to the extent we use open source technologies or licensed third-party technologies in our AI Applications product line, those products may be subject to similar concerns or even unanticipated or unknown risks given the nascency of the industry and the types of products we intend to develop and deploy. For example, developers of open source technologies and third-party licensors may not adhere to the same or similar standards that we adhere to in the development, validation, training and maintenance of AI models. To the extent such third parties' standards fall below a certain level and go undetected during our diligence and evaluation of such technologies, our business could suffer unintended consequences, including a detrimental impact on the patients we serve or the introduction of malware or other information security vulnerabilities into our network architecture.

The legislative, judicial and regulatory landscapes relating to AI are evolving and may impact our ability to use AI, and could limit our ability to operate and expand our business, cause revenue to decline and adversely affect our business.

Uncertainty in the legal regulatory regime relating to AI may require significant resources to modify and maintain business practices to comply with U.S. and non-U.S. laws, the nature of which cannot be determined at this time. Several jurisdictions around the globe, including Europe and certain U.S. states, have already proposed or enacted laws governing AI. For example, on May 17, 2024, Colorado became the first state in the United States to pass a law that requires developers of high-risk AI systems to avoid algorithmic discrimination involving certain AI decisions and to extensively document how the high-risk AI system was evaluated for performance and mitigation of algorithmic discrimination. The law also requires documentation of data governance measures used with the training data sets, the intended outputs of the high-risk AI system, how the AI system should and should not be used, and other aspects of the system. The law could require us to significantly alter our use of AI or how we train our algorithms, which could lead to increased costs. The law does not go into effect until February 1, 2026. Further, on March 13, 2024, the European Parliament formally adopted a draft of the AI Act, which is currently expected to be enacted in mid-2024, pending formal endorsement by the Council of the European Union and publication in the Official Journal of the European Union. The current draft of the AI Act, if enacted, would establish, among other things, a risk-based governance framework for regulating AI systems operating in the EU. This framework would categorize AI systems, based

[Table of Contents](#)

on the risks associated with such AI systems' intended purposes, for example, prohibiting certain "unacceptable" AI practices, classifying certain AI systems as "high-risk" systems that must meet stringent compliance requirements, introducing specific compliance obligations for certain "general-purpose AI systems" (more commonly known as foundation models) with all other AI systems being considered either limited or low risk. While the AI Act has not yet been enacted or enforced, there is a risk that our use of AI may obligate us to comply with the applicable requirements of the AI Act, which may impose additional costs on us, increase our risk of liability or adversely affect our business.

Other jurisdictions may decide to adopt similar or more restrictive legislation that may render the use of such technologies challenging. We may not be able to adequately anticipate or respond to these evolving laws and regulations, and we may need to expend additional resources to adjust our offerings in certain jurisdictions if applicable legal frameworks are inconsistent across jurisdictions.

General Risk Factors

Our business could be adversely affected by the effects of health pandemics or epidemics, including the COVID-19 global pandemic.

Our business could be adversely affected by the effects of health pandemics or epidemics, including the COVID-19 global pandemic. For example, the COVID-19 global pandemic and the various attempts throughout the world to contain it created significant volatility, uncertainty and disruption.

We experienced significant reduction in access to our customers, including restrictions on our ability to market and distribute our tests and to collect samples. Our partners, vendors and customers similarly had their operations altered or temporarily suspended. Due to impacts and measures resulting from the COVID-19 pandemic, we experienced and could again experience unpredictable reductions in the demand for our tests as healthcare customers divert medical resources and priorities toward the treatment of the virus. To the extent the COVID-19 pandemic causes severe disruption again in the future, vendors of equipment and reagents for our operations could also reduce production or even go out of business, resulting in supply constraints for us. The COVID-19 pandemic resulted in, and could continue to cause, increased costs or delays to production and development of our products.

The COVID-19 pandemic has also led to uncertainties related to our growth, forecast and trends. Our historic results such as revenue, operating margins, cash flows, tests performed, and other financial and operating metrics, may not be indicative of our results for future periods. For example, following a reduced demand for COVID-19 testing, we stopped offering COVID-19 PCR diagnostic tests in the first quarter of 2023. Increases in the number of diagnostic tests performed by us prior to the COVID-19 pandemic may reflect an acceleration of growth that we may not see during or after the COVID-19 pandemic.

While these effects have subsided and continue to subside, the full extent to which the COVID-19 pandemic may continue to impact our performance, financial condition, volume of business, results of operations and cash flows will depend on future developments that are uncertain and cannot be accurately predicted. We cannot assure you that these effects will remain reduced in the future, including due to potential new public health outbreaks. To the extent future public health outbreaks adversely affect our business and financial results, they may also have the effect of heightening many of the other risks described in this "Risk Factors" section.

We may acquire businesses, form joint ventures or make investments in companies or technologies that could negatively affect our operating results, distract management's attention from other business concerns, dilute our stockholders' ownership, and significantly increase our debt, costs, expenses, liabilities and risks.

We have made acquisitions of businesses, technologies and assets and may pursue additional acquisitions in the future, one or more of which may be substantial. We also may pursue strategic alliances and additional joint ventures that leverage our Platform and industry experience to expand our product offerings or distribution. We have limited experience with acquisitions, joint ventures and forming strategic partnerships. We compete for those

[Table of Contents](#)

opportunities with others including our competitors, some of which have greater financial or operational resources than we do. We may not be able to identify suitable acquisition candidates or strategic partners, we may have inadequate access to information or insufficient time to complete due diligence, and we may not be able to complete such transactions on favorable terms, if at all. If we make any acquisitions, we may not be able to integrate these acquisitions successfully into our existing business, and we could assume unknown or contingent liabilities. Difficulties in assimilating acquired businesses include redeployment or loss of key employees and their severance, combination of teams and processes in various functional areas, reorganization or closures of facilities, relocation or disposition of excess equipment, and increased litigation, regulatory and compliance risks, any of which could be expensive and time consuming and adversely affect us. Integration of an acquired business also may disrupt our ongoing operations and require management resources that we would otherwise focus on developing our existing business. In addition, any acquisition could result in the incurrence of debt, contingent liabilities or future write-offs of intangible assets or goodwill, any of which could have a material adverse effect on our financial condition, results of operations and cash flows. We may also experience losses related to investments in other companies, which could have a material negative effect on our business, financial condition and results of operations. We may not realize the anticipated benefits of any acquisition, technology license, strategic alliance or joint venture.

We evaluate opportunities for transactions of these types from time to time. For example, on May 18, 2024, we entered into the Joint Venture Agreement related to the Joint Venture in Japan. See “Prospectus Summary—Recent Developments—Japan Joint Venture and Related Agreements” for additional information regarding the Joint Venture. We have limited experience forming joint ventures and we may not realize the anticipated benefits of the Joint Venture. We may also realize losses related to our investment in the Joint Venture, which could have a material negative effect on our business, financial condition and results of operations.

To finance any acquisitions, joint ventures or investments, we may choose to issue shares of our common stock as consideration, which would dilute the ownership of our stockholders. As further described in the section entitled “Underwriting,” during the 180-day period following the date of this prospectus, we are permitted to issue up to 15.0% of the total number of shares of our common stock outstanding immediately following this offering in connection with acquisitions, joint ventures, commercial agreements or other similar arrangements. Additional funds may not be available on terms that are favorable to us, or at all. If the price of our common stock is low or volatile, we may not be able to acquire other companies or fund a joint venture project using our stock as consideration.

Our ability to use our net operating loss carryforwards and certain other tax attributes may be limited.

We have incurred net losses since our inception and we may never achieve or sustain profitability. Generally, losses incurred will carry forward until such losses expire (for losses generated prior to January 1, 2018) or are used to offset future taxable income, if any. Under current law, U.S. federal net operating losses, or NOLs, incurred in taxable years beginning after December 31, 2017, can be carried forward indefinitely to offset future taxable income, but the deductibility of such U.S. federal NOL carryforwards in a taxable year is limited to 80% of taxable income in such year. Under Sections 382 and 383 of the Internal Revenue Code of 1986, as amended, or the IRC, if a corporation undergoes an “ownership change,” generally defined as a greater than 50 percentage point change (by value) in its equity ownership by certain stockholders over a three-year period, the corporation’s ability to use its pre-change net operating loss, carryforwards and other pre-change tax attributes (such as research tax credits) to offset its post-change income or taxes may be limited. We have not completed a study to assess whether one or more ownership change for purposes of Section 382 or 383 have occurred since our inception. For purposes of Section 382 or 383, we may have experienced ownership changes in the past and may experience ownership changes in the future as a result of shifts in our stock ownership (some of which shifts are outside our control). As a result, if we earn net taxable income, our ability to use our pre-change NOL carryforwards to offset such taxable income will be subject to limitations. Similar provisions of state tax law may also apply to limit our use of accumulated state tax attributes. Therefore, if we attain profitability, we may be unable to use a material portion of our NOL carryforwards and other tax attributes, which could adversely affect our future cash flows. These changes may adversely affect our future cash flow.

Taxing authorities may successfully assert that we should have collected or in the future should collect sales and use, value added, or similar taxes, and we could be subject to tax liabilities with respect to past or future sales, which could adversely affect our results of operations.

We do not collect sales and use, value added, and similar taxes in all jurisdictions in which we have sales, based on our belief that such taxes are not applicable or that we are not required to collect such taxes with respect to the jurisdiction. Sales and use, value added, and similar tax laws and rates vary greatly by jurisdiction. Certain jurisdictions in which we do not collect such taxes may assert that such taxes are applicable, which could result in tax assessments, penalties, and interest, and we may be required to collect such taxes in the future. Such tax assessments, penalties, and interest or future requirements may adversely affect our results of operations.

If our estimates or judgments relating to our critical accounting policies are based on assumptions that change or prove to be incorrect, our operating results could fall below our publicly announced guidance or the expectations of securities analysts and investors, resulting in a decline in the market price of our common stock.

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America, or GAAP, requires management to make estimates and assumptions that affect the amounts reported in our financial statements and accompanying notes. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets, liabilities, equity, revenue and expenses that are not readily apparent from other sources. Actual results could therefore differ materially from these estimates under different assumptions or conditions. It is possible that interpretation, industry practice and guidance may evolve as we work toward implementing these new accounting standards. If our assumptions change or if actual circumstances differ from our assumptions, our operating results may be adversely affected and could fall below our publicly announced guidance or the expectations of analysts and investors, resulting in a decline in the market price of our common stock.

We are highly dependent on the services of Eric Lefkofsky and other members of our senior management team and the loss of any member of our senior management team or our inability to attract and retain highly skilled scientists, clinicians, sales representatives and business development managers could adversely affect our business, financial condition and results of operations.

Our success depends on the skills, experience and performance of key members of our senior management team. In particular, we are highly dependent on the services of Eric Lefkofsky, our Founder, Chief Executive Officer, and Chairman of our board of directors. Mr. Lefkofsky spends substantially all of his professional time with us, and he is highly active in our management; however, he does devote some of his time and attention to other endeavors. Mr. Lefkofsky is also a co-founder and serves as Executive Chairman of the board of Pathos AI, Inc., an AI-enabled drug development company that has entered into an agreement with us, is the managing partner and co-founder of Lightbank LLC, a private venture capital firm specializing in investments in technology companies that has invested in us, and is a trustee of the Lefkofsky Family Foundation. Mr. Lefkofsky's participation in and attention to these other endeavors may impact our business. In October 2022, for example, Lightbank and the Lefkofsky Family Foundation experienced a cybersecurity incident in which third party hackers gained access to Lightbank's internal computer services and were able to exfiltrate data regarding Lightbank's historical business practices and Mr. Lefkofsky's personal financial information. While the incident did not involve or impact Tempus' systems, this security breach or others like it could indirectly impact Tempus.

In addition, we depend on the services of our Chief Operating Officer, Ryan Fukushima. Mr. Fukushima is a co-Founder of Pathos AI, Inc. and currently serves as its interim Chief Executive Officer. Under the terms of his employment agreement with Tempus, Mr. Fukushima devotes no less than 50% of his professional activities to Tempus.

[Table of Contents](#)

The individual and collective efforts of Mr. Lefkofsky, Mr. Fukushima and our other employees will be important as we continue to develop our Platform and additional products, and as we expand our commercial activities. The loss or incapacity of existing members of our executive management team, or the inability of such individuals to devote sufficient time to our endeavors, could adversely affect our operations if we experience difficulties in hiring qualified successors. While our executive officers have entered into employment agreements with us, they are at-will employees and we cannot guarantee their retention for any period of time. We do not maintain “key person” insurance on any of our employees, including Mr. Lefkofsky. Additionally, we have a number of key employees whose equity ownership in our company gives them a substantial amount of personal wealth. As a result, it may be difficult for us to continue to retain and motivate these employees, and this wealth could affect their decisions about whether or not they continue to work for us or at all.

Our research and development programs and laboratory operations depend on our ability to attract and retain highly skilled scientists and technicians. We may not be able to attract or retain qualified scientists and technicians in the future due to the competition for qualified personnel among life science businesses, particularly near our laboratories in Chicago, Atlanta and Raleigh. We also face competition from universities and public and private research institutions in recruiting and retaining highly qualified scientific personnel. In addition, we may have difficulties locating, recruiting or retaining qualified sales representatives and business development managers, as well as software engineers. Recruiting and retention difficulties can limit our ability to support our research and development and sales programs. All of our employees are at-will, which means that either we or the employee may terminate their employment at any time. Our employees also are subject to certain post-employment noncompete obligations; however, on April 23, 2024, the FTC voted to finalize a rule banning almost all post-employment noncompetes, subject to narrow exceptions, including existing non-compete agreements with “senior executives” (as defined under the rule). If the FTC ban becomes effective, as expected, and is implemented and these noncompete obligations are therefore deemed to be unenforceable, our competitors may be more successful in recruiting our employees.

Further, certain macroeconomic conditions, which have been referred to as the Great Resignation, may result in higher than normal attrition in the sectors in which we operate, and in our business in particular. Our ability to manage human capital, and attract and retain the resources necessary to operate our business successfully, may suffer as a result.

We previously identified a material weakness in our internal control over financial reporting. If we fail to maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results or prevent fraud.

Upon completion of this offering, we will be required to document and test our internal controls over financial reporting pursuant to Section 404 of Sarbanes-Oxley Act of 2002, or Section 404, so that our management can certify as to the effectiveness of our internal controls over financial reporting. Likewise, our independent registered public accounting firm will be required to provide an attestation report on the effectiveness of our internal control over financial reporting at such time as we cease to be an “emerging growth company,” as defined in the Jumpstart our Business Startups Act of 2012, or the JOBS Act. At such time, our independent registered public accounting firm may issue a report that is adverse if a material weakness is identified.

In connection with the preparation of our consolidated financial statements, we identified a material weakness in our internal control over financial reporting as of December 31, 2021, as described below. A material weakness is a deficiency, or combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our consolidated financial statements will not be prevented or detected on a timely basis.

We did not design or maintain an effective control environment due to an insufficient complement of personnel with the appropriate level of technical accounting and financial reporting knowledge and experience commensurate with our financial reporting requirements.

[Table of Contents](#)

We determined the material weakness described above has been remediated as of December 31, 2022 as management has completed the design and implementation of controls over technical accounting and financial reporting, including the hiring of a Chief Accounting Officer and other key technical accounting and financial reporting roles to further develop and document our accounting policies and financial reporting procedures, including ongoing senior management review.

Despite remediating the material weakness described above, we can give no assurance that any additional material weaknesses or restatements of financial results will not arise in the future due to a failure to implement and maintain adequate internal control over financial reporting or circumvention of these controls. If our management is unable to conclude that we have effective internal controls over financial reporting, or to certify the effectiveness of such controls, or if our independent registered public accounting firm cannot render an unqualified opinion on management's assessment and the effectiveness of our internal control over financial reporting, or if material weaknesses in our internal controls are identified in the future, we could be subject to regulatory scrutiny and a loss of public confidence, which could have a material adverse effect on our business and our stock price.

Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud.

We are subject to the periodic reporting requirements of the Exchange Act. We designed our disclosure controls and procedures to provide reasonable assurance that information we must disclose in reports we file or submit under the Exchange Act is accumulated, communicated to management, recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC. We believe that any disclosure controls and procedures, no matter how well-conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met.

These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control system, misstatements due to error or fraud may occur and not be detected.

Our employees, principal investigators, consultants and commercial partners may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements and insider trading.

We are exposed to the risk of fraud or other misconduct by our employees, principal investigators, consultants and commercial partners. Misconduct by these parties could include intentional failures to comply with the regulations of the FDA, CMS and non-U.S. regulators, comply with healthcare fraud and abuse laws and regulations in the United States and abroad, report financial information or data accurately or disclose unauthorized activities to us. In particular, sales, marketing, and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, misconduct, kickbacks, self-dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Such misconduct could also involve the improper use of information obtained in the course of clinical studies, which could result in regulatory sanctions and cause serious harm to our reputation. We currently have a code of conduct applicable to all of our employees, but it is not always possible to identify and deter employee misconduct, and our code of conduct and the other precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses, or in protecting us from governmental investigations, lawsuits or other actions stemming from a failure to comply with these laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could result in the imposition of significant civil, criminal and administrative penalties, including, without limitation, damages, monetary fines, individual imprisonment, disgorgement of profits, possible exclusion from participation in Medicare, Medicaid and other federal healthcare programs or from coverage of

[Table of Contents](#)

commercial payers, contractual damages, reputational harm, diminished profits and future earnings, additional reporting or oversight obligations if we become subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with the law and curtailment or restructuring of our operations, which could have a significantly adverse impact on our business, financial condition and results of operations. Whether or not we are successful in defending against such actions, we could incur substantial costs and expenses, including legal fees, and divert the attention of management from the operation of our business.

Legal claims and proceedings could adversely impact our business.

We have been and may in the future be subject to threatened or actual legal claims and regulatory proceedings. We consider our historical experiences with such claims and proceedings to be in the normal course of our business or typical for our industry; however, it is difficult to assess the outcome of these matters, and we may not prevail in any current or future proceedings or litigation. For example, we have received a demand from a significant stockholder to provide certain of our books and records pursuant to Section 220 of the Delaware Corporation Law, and any future litigation related to this request could materially adversely affect us. Regardless of their merit, any threatened or actual claims or proceedings can require significant time and expense to investigate and defend. Since litigation is inherently uncertain, there is no guarantee that we will be successful in defending ourselves against such claims or proceedings, or that our assessment of the materiality of these matters, including any reserves taken in connection therewith, will be consistent with the ultimate outcome of such matters.

Certain of our officers, directors and principal stockholders may pursue corporate opportunities independent of us that could present conflicts with our and our stockholders' interests.

Certain of our officers, directors and principal stockholders are in the business of making or advising on investments in companies and hold (and may from time to time in the future acquire) interests in or provide advice or services to businesses that may directly or indirectly compete with our business or be suppliers or customers of ours. These persons may also pursue acquisitions that may be complementary to our business or enter into lines that we may otherwise be well positioned to enter, and, as a result, those acquisition opportunities may not be available to us. For example our Chief Executive Officer, Founder, and Chairman, Eric Lefkofsky, is a co-founder and serves as Executive Chairman of the board of Pathos AI, Inc., a company engaged in the discovery and development of therapeutics and with whom we have a commercial relationship, as well as Lightbank LLC, a private venture capital firm specializing in investments in technology companies. Our charter provides that none of our officers or directors who are also an officer, director, employee, partner, managing director, principal, independent contractor or other affiliate of our principal stockholders will be liable to us or our stockholders for breach of any fiduciary duty by reason of the fact that any such individual pursues or acquires a corporate opportunity for its own account or the account of an affiliate, as applicable, instead of us, directs a corporate opportunity to any other person, instead of us or does not communicate information regarding a corporate opportunity to us.

If we were to be sued for product liability or professional liability, we could face substantial liabilities that exceed our resources.

The marketing, sale and use of our products could lead to the filing of product liability claims were someone to allege that our products identified inaccurate or incomplete information regarding the sample or information analyzed, reported inaccurate or incomplete information concerning the available therapies for a disease, or otherwise failed to perform as designed. We may also be subject to professional liability for errors in, a misunderstanding of, or inappropriate reliance upon, the information we provide in the ordinary course of our business activities. A product liability or professional liability claim could result in substantial damages and be costly and time-consuming for us to defend.

We maintain product and professional liability insurance, but this insurance may not fully protect us from the financial impact of defending against product liability or professional liability claims. Any product liability or professional liability claim brought against us, with or without merit, could increase our insurance rates or prevent us from securing insurance coverage in the future. Additionally, any product liability or professional liability lawsuit

could damage our reputation or cause current clinical customers to terminate existing agreements with us and potential clinical customers to seek other partners, any of which could adversely impact our results of operations.

We depend on information technology systems, including on-premises, co-located and third-party data centers and platforms, and any interruptions of service or failures may impair and harm our business, financial condition and results of operations.

We depend on information technology and telecommunications systems for significant elements of our operations, including our laboratory information management system, our computational biology system, our AI algorithms, our knowledge management system, and our customer reporting. We have installed, and expect to expand, a number of enterprise software systems that affect a broad range of business processes and functional areas, including for example, systems handling human resources, financial controls and reporting, contract management, regulatory compliance and other infrastructure operations. In addition to the aforementioned business systems, we intend to extend the capabilities of both our preventative and detective security controls by augmenting the monitoring and alerting functions, the network design and the automatic countermeasure operations of our technical systems. These information technology and telecommunications systems support a variety of functions, including laboratory operations, test validation, sample tracking, quality control, customer service support, billing and reimbursement, research and development activities, scientific and medical curation and general administrative activities. In addition, our third-party provider of billing and collections services for late-stage clinical testing in the United States depends upon technology and telecommunications systems provided by its outside vendors.

We also rely on on-premises, co-located and third-party infrastructure throughout the United States to perform computationally demanding analysis tasks for our algorithmic diagnostic products and our data business, as well as for our research and development program and for other business purposes. Information technology and telecommunications systems are vulnerable to damage from a variety of sources, including telecommunications or network failures, malicious human acts and natural disasters. Moreover, despite network security and back-up measures, some of the servers upon which we rely are potentially vulnerable to physical or electronic break-ins, computer viruses and similar disruptive problems. Despite the precautionary measures we have taken to prevent problems that could affect our information technology and telecommunications systems, failures or significant downtime of our information technology or telecommunications systems or those used by our third-party service providers could prevent us from preparing and providing reports to physicians, billing payers, processing reimbursement appeals, handling patient or physician inquiries, conducting research and development activities and managing the administrative aspects of our business.

In the event of any technical problems that may arise in connection with our on-premises, co-located or third-party data centers, we could experience interruptions in our ability to provide AI-enabled products to our customers or in our internal functions, including research and development, which rely on such services, or to operate the other administrative aspects of our business. Interruptions or failures may be caused by a variety of factors, including infrastructure changes, human or software errors, viruses, worms, ransomware, security attacks, fraud, spikes in customer usage and denial of service issues. Interruptions or failures in our data analytics operations may reduce our revenue, result in the loss of customers, adversely affect our ability to attract new customers or harm our reputation. Significant interruptions to our research and development programs could cause us to delay the introduction of new products or improvements to existing products, which could adversely impact our business, financial condition, results of operations and the competitiveness of our products. In such events, our insurance policies may not adequately compensate us for losses that we may incur but such events could subject us to liability and cause us to issue credits or cause customers to abandon our products.

In addition, we currently use the Google Cloud Platform, or Google Cloud, for a substantial portion of our computing, storage, data processing, networking and other services. Any significant disruption of, or interference with, our use of Google Cloud could adversely affect our business, financial condition and results of operations. Google has broad discretion to change and interpret the terms of service and other policies with respect to us, and those actions may be unfavorable to our business operations. Google may also take actions beyond our control

[Table of Contents](#)

that could seriously harm our business, including discontinuing or limiting our access to one or more services, increasing pricing terms, terminating or seeking to terminate our contractual relationship altogether or altering how we are able to process data in a way that is unfavorable or costly to us. If our arrangements with Google Cloud were terminated, or we are forced to transition to a new cloud provider, we could experience interruptions in our ability to conduct our diagnostic tests or to make our data product available to customers, as well as delays and additional expenses in arranging for alternative cloud infrastructure services. Any transition to new cloud providers would be difficult to implement and would cause us to incur significant delays and expense.

Additionally, we are vulnerable to service interruptions experienced by Google Cloud and other providers, and we expect to experience interruptions, delays or outages in service availability in the future due to a variety of factors, including infrastructure changes, human, hardware or software errors, hosting disruptions and capacity constraints. The level of service provided by these providers, or regular or prolonged interruptions in that service, could also affect the use of, and our customers' satisfaction with, our products and could harm our business and reputation. In addition, hosting costs will increase as our customer base grows, which could harm our business if we are unable to grow our revenue faster than the cost of using these services or the services of other providers. Any of these factors could further reduce our revenue or subject us to liability, any of which could adversely affect our business, financial condition and results of operations.

Cyber-based attacks, security breaches, loss of data and other disruptions in relation to our information systems and computer networks could compromise sensitive information related to our business, prevent us from accessing it and expose us to substantial liability, which could adversely affect our business and reputation.

Cyber-attacks, security breaches, computer virus infections, malware execution, and other incidents could cause misappropriation, exposure, loss or other unauthorized disclosure of confidential data, personal information, materials or information, including those concerning our customers and employees. Increasingly complex methods have been used in cyber-attacks, including ransomware, phishing, supply chain attacks, structured query language injections and distributed denial-of-service attacks. A cyber-attack can also be in the form of unauthorized access to our network resources (or a blocking of authorized access). Ransomware attacks are becoming increasingly prevalent and severe and can lead to significant interruptions, delays, or outages in our operations, disruption of clinical trials, loss of data (including data related to clinical trials), loss of income, significant extra expenses to restore data or systems, reputational loss and the diversion of funds. To alleviate the financial, operational and reputational impact of a ransomware attack, ransomware attack victims may prefer to make payment demands, but if we were to be a victim of such an attack, we may be unwilling or unable to do so (including, for example, if applicable laws or regulations prohibit such payments). Similarly, supply chain attacks have increased in frequency and severity, and we cannot guarantee that third parties and infrastructure in our supply chain have not been compromised or that they do not contain exploitable defects or bugs that could result in a breach or disruption of our systems and networks or the systems or networks of third parties that support us. Despite the security controls we have in place, such attacks are difficult to avoid. Although we are not aware of any such breaches or incidents of our or our third-party vendors' systems or information, we can provide no assurance that we or our vendors will be able to detect, prevent or contain the effects of such attacks or other information security risks, vulnerabilities or threats in the future. The costs of attempting to protect against the foregoing risks and the costs of responding to and remediating systems from a cyber-attack are significant. Large scale data breaches at other entities increase the challenge we and our vendors face in maintaining the security of our information technology systems and of our customers' sensitive information. Following a cyber-attack, our and/or our vendors' remediation efforts may not be successful, and a cyber-attack could result in interruptions, delays or cessation of service, and loss of existing or potential customers. In addition, breaches of our and/or our vendors' security measures and the unauthorized dissemination or availability of sensitive personal information or proprietary information or confidential information about us, our customers or other third parties, could expose our customers' private information and our customers to the risk of financial or medical identity theft, or expose us or other third parties to a risk of loss or misuse of this information, and result in investigations, regulatory enforcement actions, material fines and penalties, loss of customers, litigation or other actions which could have a material adverse effect on our business, financial

[Table of Contents](#)

condition and results of operations. In addition, if we fail to adhere to our privacy policy and other published statements about our privacy or cybersecurity practices, or applicable laws concerning our processing, use, transmission and disclosure of protected information, or if our statements or practices are found to be deceptive or misrepresentative, we could face regulatory actions, fines and other liability. See “Risk Factors—Risks Related to Our Highly Regulated Industry.” Our collection, processing, use and disclosure of personally identifiable information, including patient and employee information, is subject to privacy and security regulations, and our failure to comply with those regulations or to adequately secure the information in our possession could result in significant liability or reputational harm.”

In the ordinary course of our business, we collect and store sensitive data, including PHI, personally identifiable information, credit card and other financial information, intellectual property and proprietary business information owned or controlled by us or other parties such as customers and payers. We manage and maintain our applications and data utilizing a combination of on-site systems and cloud-based data centers. We utilize external security and infrastructure vendors to manage parts of our data centers. We also communicate sensitive data, including patient data, through phone, Internet, facsimile, multiple third-party vendors and their subcontractors or integrations with third-party electronic medical records. These applications and data encompass a wide variety of information critical to our business, including research and development information, patient data, commercial information and business and financial information. We face a number of risks related to protecting this critical information, including loss of access, intentional or accidental inappropriate use or disclosure, unauthorized access, inappropriate modification and the risk of our being unable to adequately monitor, audit or modify our controls over such critical information. This risk extends to the third-party vendors and subcontractors we use to manage this sensitive data or otherwise process it on our behalf.

The secure processing, storage, maintenance and transmission of this critical information are vital to our operations and business strategy, and we devote significant resources to a variety of mechanisms, including administrative, physical and technical measures, intended to protect such information. Although we take measures designed to protect sensitive data from unauthorized access, use, modification or disclosure, no security measures can be perfect or protect against all threats or vulnerabilities and our information technology infrastructure could be vulnerable to hackers, phishing scams, malware, viruses, security flaws, errors by employees or others who have authorized access to our network, and other malfeasance or inadvertent disruptions. Any breach or interruption of our security measures or information technology infrastructure could compromise our networks, and the information stored there could be accessed by unauthorized parties, publicly disclosed, lost or stolen. Any such access, breach, or other loss of information could result in legal claims or proceedings, and liability under federal, state or foreign laws that protect the privacy of personal information, such as HIPAA or HITECH, and regulatory penalties.

Notice of HIPAA breaches must be made to affected individuals, the Secretary of the Department of Health and Human Services or other state, federal or foreign regulators, including State Attorneys General, and for extensive breaches, notice may need to be made to the media. Such a notice could harm our reputation and our ability to compete. Although we have implemented security measures and an enterprise security program to prevent unauthorized access to patient data, such data is currently accessible through multiple channels, and there is no guarantee we can protect all data from breach or exposure. Unauthorized access, loss or dissemination could disrupt our operations (including our ability to perform our analysis, provide test results, bill payers or patients, process claims and appeals, provide customer assistance, conduct research and development, develop intellectual property, collect, process and prepare financial information, provide information about our tests and continue other patient and physician education and outreach efforts, and manage our business) and damage our reputation, any of which could adversely affect our business, financial condition and results of operations. For example, the loss of clinical trial data from completed or future clinical trials could result in delays in or cancellation of our regulatory approval efforts and significantly increase our costs to recover or reproduce the lost data. We may also rely on third parties for their products or services on which we depend, and similar events relating to their computer systems could also have a material adverse effect on our business, financial condition and results of operations. To the extent that any disruption or security incident were to result in any loss, destruction, or

[Table of Contents](#)

alteration of, or damage or unauthorized access to, our data or other information that is processed or maintained on our behalf, or inappropriate disclosure of or dissemination of any such information, the further development and commercialization of our product candidates could be delayed. We continue to prioritize security and the development of practices and controls to protect our systems. As cyber threats evolve, we may be required to expend significant additional resources to continue to modify or enhance our protective measures or to investigate and remediate any information security vulnerabilities, and these efforts may not be successful.

We have contingency plans and insurance coverage for certain potential claims, liabilities, and costs relating to security incidents that may arise from our business or operations; however, the coverage may not be sufficient to cover all claims, liabilities, and costs arising from the incidents, including fines and penalties. In addition, we cannot be certain that insurance for cybersecurity incidents will continue to be available to us on economically reasonable terms, or at all, or that any insurer will not deny coverage as to any future claim. It could be difficult to predict the ultimate resolution of any such incidents or to estimate the amounts or ranges of potential loss, if any, that could result therefrom. If we cannot successfully resolve a security incident or contain any potential loss, it could materially impact our business, financial condition and results of operations.

Risks Related to Ownership of Our Class A Common Stock

The dual class structure of our common stock will have the effect of concentrating voting control with our Chief Executive Officer, Founder and Chairman, which will limit your ability to influence the outcome of important decisions.

Our Class B common stock has 30 votes per share and our Class A common stock, which is the stock we are offering hereby, has one vote per share. Our Chief Executive Officer, Founder, and Chairman, Eric Lefkofsky, who, collectively with his controlled entities, holds all our outstanding shares of Class B common stock, will beneficially own shares representing approximately 65.3% of the voting power of our outstanding capital stock following the completion of this offering. As a result, Mr. Lefkofsky will have the ability to control the outcome of matters requiring stockholder approval, including the election of directors and approval of significant corporate transactions, such as a merger, other sale of our company or our assets or significant acquisitions, even if his stock ownership represents less than 50% of the outstanding aggregate number of shares of our capital stock. This concentration of voting control will limit the ability of other stockholders to influence corporate matters and may cause us to make strategic decisions that could involve risks to you or that may not be aligned with your interests. In addition, Mr. Lefkofsky will serve as an observer on our nominating and corporate governance committee, and accordingly, may have substantial influence over the individuals nominated to serve as directors. As a board member, Mr. Lefkofsky owes a fiduciary duty to our stockholders and is legally obligated to act in good faith and in a manner he reasonably believes to be in the best interests of our stockholders. As a stockholder, Mr. Lefkofsky is entitled to vote his shares in his own interests, which may not always be in the interests of our stockholders generally. Mr. Lefkofsky's control may adversely affect the market price of our Class A common stock.

We have not elected to take advantage of the "controlled company" exemption to the corporate governance rules for publicly listed companies but may do so in the future.

Because our Chief Executive Officer, Founder, and Chairman, Eric Lefkofsky, who, collectively with his controlled entities, holds all our outstanding shares of Class B common stock, will beneficially own shares representing in excess of 50% of the voting power of our outstanding capital stock following the completion of this offering, we are eligible to elect the "controlled company" exemption to the corporate governance rules for publicly listed companies. We have not elected to do so. If we decide to become a "controlled company" under the corporate governance rules for publicly listed companies, we would not be required to have a majority of our board of directors be independent, nor would we be required to have a compensation committee or an independent nominating function. If we choose controlled company status in the future, our status as a controlled company could cause our Class A common stock to be less attractive to certain investors or otherwise harm our trading price.

We cannot predict the impact our dual class structure may have on the market price of our Class A common stock.

We cannot predict whether our dual class structure, combined with the concentrated control of our Chief Executive Officer, Founder and Chairman, who beneficially owns all of the outstanding shares of our Class B common stock, will result in a lower or more volatile market price of our Class A common stock or in adverse publicity or other adverse consequences. Certain index providers have announced restrictions on including companies with multiple-class share structures in certain of their indexes. For example, in July 2017, FTSE Russell and Standard & Poor's announced that they would cease to allow most newly public companies utilizing dual or multi-class capital structures to be included in their indices. Under the announced policies, our dual class capital structure would make us ineligible for inclusion in any of these indices. Given the sustained flow of investment funds into passive strategies that seek to track certain indexes, exclusion from stock indexes would likely preclude investment by many of these funds and could make our Class A common stock less attractive to other investors. As a result, the market price of our Class A common stock could be adversely affected.

No public market for our Class A common stock currently exists, and an active public trading market may not develop or be sustained following this offering.

No public market for our Class A common stock currently exists. An active public trading market for our Class A common stock may not develop following the completion of this offering or, if developed, it may not be sustained. The lack of an active market may impair your ability to sell your shares at the time you wish to sell them or at a price that you consider reasonable. The lack of an active market may also reduce the fair value of your shares. An inactive market may also impair our ability to raise capital to continue to fund operations by selling shares and may impair our ability to acquire other companies or technologies by using our shares as consideration.

We anticipate incurring substantial federal and state tax withholding and remittance obligations in connection with the settlement of RSUs that vest in connection with this offering. The manner in which we fund these tax liabilities may have an adverse effect on our financial condition.

We anticipate that we will incur substantial federal and state tax obligations in light of the large number of RSUs that will vest in connection with this offering, a portion of which will settle at the time of this offering and the remainder of which will settle during the 180-day period following the date of this prospectus (or, subject to certain conditions described in the section titled "Underwriting", a shorter period), or the restricted period, as further described in the section titled "Prospectus Summary—RSU Settlement." The RSUs granted prior to the date of this prospectus vest upon the satisfaction of service-based and performance-based vesting conditions. We anticipate that we will use approximately \$74.5 million of the net proceeds from this offering, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, to satisfy federal and state tax withholding and remittance obligations in connection with the net settlement of a portion of the RSUs outstanding as of March 31, 2024 for which the service-based vesting condition will be satisfied before June 14, 2024 and for which the performance-based vesting condition will be satisfied in connection with this offering. In connection with the settlement of these RSUs, we plan to withhold certain shares underlying RSUs and remit federal and state taxes on behalf of the holders of such RSUs at applicable statutory tax withholding rates based on the initial public offering price per share in this offering. See "Use of Proceeds." For vested RSUs that will not be settled in connection with this offering, we will satisfy related federal and state tax withholding and remittance obligations by requiring such RSU holders to sell a portion of such shares into the market during the restricted period utilizing sell-to-cover, through brokers on the applicable settlement date, with the proceeds of such sales to be delivered to us for remittance to the relevant taxing authorities. See "Shares Eligible for Future Sale." We expect each settlement and sell-to-cover transaction to extend over a multi-day period based on trading volumes. Because the purpose of sell-to-cover transactions is to generate proceeds sufficient to satisfy federal and state tax withholding obligations, the exact number of shares sold will depend on the sale prices of the Class A common stock in such transactions and our stockholders' personal tax rates. However, with respect to employees that are not executive officers, if sell-to-cover proceeds

are not available at the time taxes must be remitted to state and federal tax authorities, we would need to remit taxes to the relevant tax authorities using cash on hand, which may include cash proceeds generated from this offering, pending the receipt of such sell-to-cover proceeds. If we are required to remit tax obligations on behalf of our employees without having first received proceeds from their sell-to-cover transactions, we could have significant cash outlays that could have an adverse effect on our financial condition. In addition, shares sold by our Chief Executive Officer and other employees in sell-to-cover transactions may have an adverse effect on the market price of our Class A common stock.

We will have broad discretion in the use of the net proceeds from this offering and may not use them effectively.

We will have broad discretion in the application of the net proceeds from this offering, including for any of the purposes described in the section titled “Use of Proceeds,” and you will not have the opportunity as part of your investment decision to assess whether the net proceeds are being used appropriately. Because of the number and variability of factors that will determine our use of the net proceeds from this offering, our ultimate use may vary substantially from our currently intended use. Investors will need to rely upon the judgment of our management with respect to the use of proceeds. Pending use, we may invest the net proceeds from this offering in short-term, investment-grade, interest-bearing securities, such as money market accounts, certificates of deposit, commercial paper, and guaranteed obligations of the U.S. government that may not generate a high yield for our stockholders. We may use a portion of the net proceeds to acquire complementary businesses, products, services, or technologies, or to pay down existing or future debt obligations. At this time, we do not have agreements or commitments to enter into any material acquisitions. If we do not use the net proceeds that we receive in this offering effectively, our business, financial condition and results of operations could be harmed and the market price of our Class A common stock could decline.

Future sales of our Class A common stock in the public market could cause the market price of our Class A common stock to decline.

Sales of a substantial number of shares of our Class A common stock in the public market following the completion of this offering, or the perception that these sales might occur, could depress the market price of our Class A common stock and could impair our ability to raise capital through the sale of additional equity securities. Many of our existing equity holders have substantial unrecognized gains on the value of the equity they hold based upon the price of this offering, and therefore they may take steps to sell their shares or otherwise secure the unrecognized gains on those shares. We are unable to predict the timing of or the effect that such sales may have on the prevailing market price of our Class A common stock.

All of the Class A common stock sold in this offering will be freely tradable without restrictions or further registration under the Securities Act of 1933, as amended, or the Securities Act, except for any shares held by our affiliates as defined in Rule 144 under the Securities Act, or Rule 144, and shares subject to lock-up and market standoff agreements described below.

We, all of our directors, executive officers, and the holders of substantially all of our common stock and securities exercisable for or convertible into our common stock outstanding immediately prior to the closing of this offering (except for the RSUs previously issued to our employees other than our executive officers, including the RSUs that will settle in connection with the RSU Net Settlement or the Additional RSU Settlement, and the warrants issued to Allen and AstraZeneca), have agreed with the underwriters that, during the restricted period, we and they will not, without the prior written consent of Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC, offer, sell, contract to sell, pledge, grant any option to purchase, make any short sale or otherwise dispose of any of our shares of common stock, any options or warrants to purchase any of our shares of common stock or any securities convertible into or exchangeable for or that represent the right to receive shares of our common stock. In addition, the restricted period may be shortened with respect to a portion of the locked-up securities under certain circumstances and the lock-up agreements are subject to a number of important exceptions. These

[Table of Contents](#)

agreements and such exceptions are described in the section titled “Underwriting.” Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC may release any of the securities subject to these lock-up agreements at any time, subject to applicable notice requirements. In addition to the restrictions contained in the lock-up agreements, we have entered into market standoff agreements with substantially all of our RSU holders, including holders of the RSUs that will settle in connection with the RSU Net Settlement and the Additional RSU Settlement, imposing restrictions on the ability of such security holders to offer, sell, contract to sell, pledge, hypothecate, grant any option to purchase or make any short sale of, or otherwise dispose of any shares of our common stock or any rights to acquire our common stock during the restricted period, subject to earlier release at any time by us. If not earlier released, all of the shares of Class A common stock not sold in this offering will become eligible for sale upon the expiration of the restricted period, except for any shares held by our affiliates as defined in Rule 144.

In addition, pursuant to certain exceptions in the lock-up agreements and because of our ability to release RSU holders early under the market standoff agreements, certain shares of our Class A common stock will be sold in the open market by our employees, including our Chief Executive Officer, during the restricted period described above in sell-to-cover transactions in order to satisfy tax withholding obligations in connection with the settlement of RSUs for shares of our Class A common stock as follows:

<u>Date First Available for Sale into the Market</u>	<u>Number of RSUs Expected to Settle</u>	<u>Approximate Number of Shares of Class A Common Stock to be Sold in Sell-to-Cover Transactions⁽¹⁾</u>
91 days after the date of this prospectus (or the next trading day if such date is not a trading day)	5,362,261	2,413,017
120 days after the date of this prospectus (or the next trading day if such date is not a trading day)	5,362,262	2,413,018

(1) Assumes a 45% tax rate. Includes an estimated approximately 868,758 shares that may be sold on or after each of the 91st and 120th day following the date of this prospectus in respect of settlement of RSUs held by our Chief Executive Officer.

The dates and numbers above are estimates. We expect each settlement and sell-to-cover transaction to extend over a multi-day period based on trading volumes. Because the purpose of sell-to-cover transactions is to generate proceeds sufficient to satisfy tax withholding obligations, the exact number of shares sold will depend on the sale prices of the Class A common stock in such transactions and our stockholders’ personal tax rates.

In addition, there were 210,000 shares of Class A common stock issuable upon the exercise of a stock option outstanding as of March 31, 2024. We intend to register all of the shares of Class A common stock issuable upon the exercise of the outstanding option, settlement of outstanding RSUs and other equity incentives we may grant in the future for public resale under the Securities Act.

AstraZeneca holds an outstanding warrant, pursuant to which AstraZeneca has the right to purchase \$100 million in shares of our Class A common stock at an exercise price equal to the public offering price in this offering. The shares of Class A common stock will become eligible for sale in the public market to the extent such warrant is exercised, subject to the market standoff provision included in such agreement and described in the section titled “Underwriting” and compliance with applicable securities laws. In addition, pursuant to the Warrant Net Exercise, Allen, an underwriter in this offering, will receive 108,333 shares of Class A common stock following this offering (assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus). The shares of Class A common stock issued pursuant to the Warrant Net Exercise will become eligible for sale in the public market, subject to the market standoff provision contained in the Allen warrant agreement and described in the section titled “Underwriting” and compliance with applicable securities laws.

[Table of Contents](#)

Further, based on shares outstanding as of March 31, 2024, holders of approximately 130,530,216 shares of Class A common stock (after giving effect to the issuance of Series G-5 preferred stock in April 2024 and assuming the issuance of the Additional Class A Conversion Shares, as discussed under “Prospectus Summary” above, and assuming no exercise of the underwriters’ option to purchase additional shares) and 5,043,789 shares of Class B common stock, or 84.7% of our capital stock after the completion of this offering, will have rights, subject to some conditions, to require us to file registration statements covering the sale of their shares or to include their shares in registration statements that we may file for ourselves or other stockholders.

Sales, short sales, or hedging transactions involving our equity securities, whether before or after this offering and whether or not we believe them to be prohibited, could adversely affect the price of our Class A common stock.

The lock-up agreements relating to this offering are subject to a number of important exceptions and the restricted period pursuant to such lock-up agreements or the market standoff agreements with our RSU holders may be shortened. In addition, a significant number of shares may be sold in sell-to-cover transactions and we may issue a significant number of shares as consideration in certain transactions, including during the restricted period. As a result, a large number of shares of Class A common stock may become available for resale in the immediate future, including within 180 days after the date of this prospectus, which could materially depress the market price of our Class A common stock.

Although we, all of our directors, executive officers, and the holders of substantially all of our common stock and securities exercisable for or convertible into our common stock outstanding immediately prior to the closing of this offering (except for the RSUs previously issued to our employees other than our executive officers, and the warrants issued to Allen and AstraZeneca) have agreed with the underwriters that, until 180 days after the date of this prospectus, we and they will not offer, sell, make any short sale or otherwise dispose of any of our shares of common stock, any options or warrants to purchase any of our shares of common stock or any securities convertible into or exchangeable for or that represent the right to receive shares of our common stock, such lock-up agreements are subject to a number of important exceptions described in the section titled “Underwriting.” For example, at any time during such period, we may agree to issue or issue up to 15.0% of the total number of shares of our common stock outstanding immediately following the issuance of our Class A common stock in this offering, or 24,765,639 shares, in connection with an acquisition, merger, joint venture, strategic alliance, commercial or other collaborative relationship or certain other transactions. In addition, under the market standoff agreements that we have entered into with substantially all of our RSU holders, we have the right to release early some or all shares of our Class A common stock issuable pursuant to such RSUs, subject to the consent of Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC. See the section titled “Underwriting” for more detail.

Furthermore, in connection with the Additional RSU Settlement, our Chief Executive Officer will be required to sell in the open market in sell-to-cover transactions approximately 868,758 shares of our Class A common stock on or about 91 days after the date of this prospectus and approximately 868,758 shares of our Class A common stock on or about 120 days after the date of this prospectus, and certain of our employees other than our other executive officers will be required to sell in the open market in sell-to-cover transactions approximately 1,544,259 shares of our Class A common stock on or about 91 days after the date of this prospectus and approximately 1,544,260 shares of our Class A common stock on or about 120 days after the date of this prospectus, in each case assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, and an assumed 45% tax withholding rate. See “Prospectus Summary—RSU Settlement” for more detail.

In the event that the end of the restricted period falls during one of our quarterly blackout periods during which trading by certain of our employees in our securities would not be permitted under our insider trading policy then in effect, the restricted period will automatically be shortened to expire on the date that is the later of ten trading days prior to the date that such blackout period begins and the 150th day after the date of this prospectus. In addition, if the closing price of our Class A common stock on The Nasdaq Stock Market LLC is at

[Table of Contents](#)

least 30% greater than the initial public offering price per share set forth on the cover page of this prospectus for (i) any 10 trading days during the period ending on, and including, the date that we publicly announce our earnings for the first completed quarterly period following March 31, 2024, or the Initial Earnings Release, and (ii) any one trading day following the Initial Earnings Release, then the restricted period will automatically expire on the later of (a) the date on which the conditions set forth in both (i) and (ii) above are satisfied and (b) two trading days following our Initial Earnings Release, with respect to 30% of each holder's aggregate shares of our common stock, to the extent vested.

Moreover, Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC may release any of the securities subject to these lock-up agreements at any time. In the event that any officer, director or other holder holding in excess of 1% of our outstanding shares of common stock is granted an early release from the lock-up restrictions with respect to our securities in an aggregate amount in excess of 1% of our outstanding shares of common stock (whether in one or multiple releases), then every other person subject to lock-up automatically will be granted an equivalent early release from its obligations under the lock-up agreement on a pro rata basis.

Each of the events described above may occur independently of the other events. As a result of any such event or any combination thereof, a large number of shares of our Class A common stock may become available for resale in the immediate future, including within 180 days after the date of this prospectus, which may materially depress the market price of our Class A common stock. In addition, some or all of these events may occur in close proximity or simultaneously, which may exacerbate their impact on the market price of our Class A common stock.

You will experience immediate and substantial dilution in the net tangible book value of the shares of Class A common stock you purchase in this offering.

The initial public offering price of our Class A common stock will be substantially higher than the pro forma net tangible book value per share of our common stock immediately after this offering. If you purchase shares of our Class A common stock in this offering, you will suffer immediate dilution of \$35.65 per share, or \$35.32 per share if the underwriters exercise their option to purchase additional shares in full, representing the difference between our pro forma as adjusted net tangible book value per share as of March 31, 2024, after giving effect to the sale of Class A common stock in this offering, and the assumed initial public offering price of \$36.00 per share, the midpoint of the price range set forth on the cover page of this prospectus. See the section titled "Dilution."

We do not intend to pay dividends for the foreseeable future and, as a result, your ability to achieve a return on your investment will depend on appreciation in the price of our Class A common stock.

While we have in the past paid dividends to holders of our convertible preferred stock, we do not intend to pay any cash dividends in the foreseeable future. Any determination to pay dividends in the future will be at the discretion of our board of directors. Accordingly, you may need to rely on sales of our Class A common stock after price appreciation, which may never occur, as the only way to realize any future gains on your investment.

We are an "emerging growth company," and we cannot be certain if the reduced reporting and disclosure requirements applicable to emerging growth companies will make our Class A common stock less attractive to investors.

We are an "emerging growth company," as defined in the JOBS Act, and we may take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not "emerging growth companies," including the auditor attestation requirements of Section 404, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. Pursuant to Section 107 of the JOBS Act, as an

[Table of Contents](#)

emerging growth company, we have elected to use the extended transition period for complying with new or revised accounting standards until those standards would otherwise apply to private companies. As a result, our consolidated financial statements may not be comparable to the financial statements of issuers who are required to comply with the effective dates for new or revised accounting standards that are applicable to public companies, which may make our Class A common stock less attractive to investors. In addition, if we cease to be an emerging growth company, we will no longer be able to use the extended transition period for complying with new or revised accounting standards.

We will remain an emerging growth company until the earliest of: (1) the last day of the fiscal year following the fifth anniversary of this offering; (2) the last day of the first fiscal year in which our annual gross revenue is \$1.235 billion or more; (3) the date on which we have, during the previous rolling three-year period, issued more than \$1.0 billion in non-convertible debt securities; and (4) the last day of the fiscal year in which the market value of our Class A common stock held by non-affiliates exceeded \$700 million as of June 30 of such fiscal year.

We cannot predict if investors will find our Class A common stock less attractive if we choose to rely on these exemptions. If some investors find our Class A common stock less attractive, there may be a less active trading market for our Class A common stock and our stock price may be more volatile.

Anti-takeover provisions in our charter documents and under Delaware law could make an acquisition of our company more difficult, limit attempts by our stockholders to replace or remove our current management and limit the market price of our Class A common stock.

In addition to the effects of our dual class structure, provisions in our amended and restated certificate of incorporation and amended and restated bylaws, as they will be in effect upon the completion of this offering, may have the effect of delaying or preventing a change in control or changes in our management. Our amended and restated certificate of incorporation and amended and restated bylaws will include provisions that may frustrate or prevent any attempts by our stockholders to replace or remove our current management by making it more difficult for stockholders to replace members of our board of directors, which is responsible for appointing the members of our management.

In addition, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which generally, subject to certain exceptions, prohibits a Delaware corporation from engaging in any of a broad range of business combinations with any “interested” stockholder for a period of three years following the date on which the stockholder became an “interested” stockholder. Any of the foregoing provisions could limit the price that investors might be willing to pay in the future for shares of our Class A common stock, and they could deter potential acquirers of our company, thereby reducing the likelihood that you would receive a premium for your shares of our Class A common stock in an acquisition.

Our amended and restated certificate of incorporation will provide that the Court of Chancery of the State of Delaware and the federal district courts of the United States of America will be the exclusive forums for substantially all disputes between us and our stockholders, which could limit our stockholders’ ability to obtain a favorable judicial forum for disputes with us or our directors, officers, or employees.

Our amended and restated certificate of incorporation, as will be in effect upon the completion of this offering, will provide that the Court of Chancery of the State of Delaware is the exclusive forum for the following types of actions or proceedings under Delaware statutory or common law:

- any derivative claim or cause of action brought on our behalf;
- any claim or cause of action asserting a breach of fiduciary duty;
- any claim or cause of action against us arising under the Delaware General Corporation Law;

[Table of Contents](#)

- any claim or cause of action arising under or seeking to interpret our amended and restated certificate of incorporation or our amended and restated bylaws; and
- any claim or cause of action against us that is governed by the internal affairs doctrine.

The provisions would not apply to suits brought to enforce a duty or liability created by the Securities Exchange Act of 1934, or the Exchange Act. Furthermore, Section 22 of the Securities Act creates concurrent jurisdiction for federal and state courts over all such Securities Act actions. Accordingly, both state and federal courts have jurisdiction to entertain such claims. To prevent having to litigate claims in multiple jurisdictions and the threat of inconsistent or contrary rulings by different courts, among other considerations, our amended and restated certificate of incorporation will further provide that the federal district courts of the United States of America will be the exclusive forum for resolving any complaint asserting a cause or causes of action arising under the Securities Act, including all causes of action asserted against any defendant to such complaint. For the avoidance of doubt, this provision is intended to benefit and may be enforced by us, our officers and directors, the underwriters to any offering giving rise to such complaint, and any other professional entity whose profession gives authority to a statement made by that person or entity and who has prepared or certified any part of the documents underlying the offering.

While the Delaware courts have determined that such choice of forum provisions are facially valid, a stockholder may nevertheless seek to bring a claim in a venue other than those designated in the exclusive forum provisions. In such an instance, we would expect to vigorously assert the validity and enforceability of the exclusive forum provisions of our amended and restated certificate of incorporation. This may require significant additional costs associated with resolving such action in other jurisdictions and there can be no assurance that the provisions will be enforced by a court in those other jurisdictions.

These exclusive forum provisions may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, or other employees, which may discourage lawsuits against us and our directors, officers, and other employees. If a court were to find either exclusive-forum provision in our amended and restated certificate of incorporation to be inapplicable or unenforceable in an action, we may incur further significant additional costs associated with resolving the dispute in other jurisdictions, all of which could seriously harm our business, financial condition and results of operations.

Our stock price may be volatile, and the value of our Class A common stock may decline.

The market price of our Class A common stock may be highly volatile and may fluctuate or decline substantially as a result of a variety of factors, some of which are beyond our control, including:

- actual or anticipated fluctuations in our financial condition or results of operations;
- variance in our financial performance from expectations of securities analysts;
- changes in the pricing of our products;
- our ability to service or pay down existing or future debt obligations;
- changes in our projected operating and financial results;
- changes in laws or regulations applicable to our Platform and products, including changes in the regulation of data or in the structure of healthcare payment systems;
- announcements by us or our competitors of significant business developments, acquisitions, or new products;
- significant data breaches, disruptions to or other incidents involving our products;
- our involvement in litigation or governmental investigations;

Table of Contents

- future sales of our Class A common stock by us or our stockholders, including as a result of sell-to-cover transactions during the restricted period, as well as the anticipation of sell-to-cover transactions, lock-up releases or the expiration of the related restricted period;
- changes in senior management or key personnel;
- the issuance of new or changed securities analysts' reports or recommendations;
- the trading volume of our Class A common stock;
- changes in the anticipated future size and growth rate of our market; and
- economic and market conditions in general, or in our industry in particular.

Broad market and industry fluctuations, as well as general economic, political, regulatory, and market conditions, may also negatively impact the market price of our Class A common stock. In addition, technology stocks have historically experienced high levels of volatility. In the past, companies that have experienced volatility in the market price of their securities have been subject to securities class action litigation. We may be the target of this type of litigation in the future, which could result in substantial expenses and divert our management's attention.

If securities or industry analysts do not publish research or publish unfavorable or inaccurate research about our business, the market price and trading volume of our Class A common stock could decline.

The market price and trading volume of our Class A common stock following the completion of this offering will be heavily influenced by the way analysts interpret our financial information and other disclosures. We do not have control over these analysts. If few securities analysts commence coverage of us, or if industry analysts cease coverage of us, our stock price would be negatively affected. If securities or industry analysts do not publish research or reports about our business, downgrade our Class A common stock, or publish negative reports about our business, our stock price would likely decline. If one or more of these analysts cease coverage of us or fail to publish reports on us regularly, demand for our Class A common stock could decrease, which might cause our stock price to decline and could decrease the trading volume of our Class A common stock.

We will incur increased costs as a result of operating as a public company, and our management will be required to devote substantial time to compliance with our public company responsibilities and corporate governance practices.

As a public company, we will incur significant legal, accounting and other expenses that we did not incur as a private company, which we expect to further increase after we are no longer an "emerging growth company." The Sarbanes-Oxley Act, the Dodd-Frank Wall Street Reform and Consumer Protection Act, the Exchange Act, the listing requirements of the Nasdaq Stock Market and other applicable securities rules and regulations impose various requirements on public companies. Our management and other personnel devote a substantial amount of time to compliance with these requirements. Moreover, these rules and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly, such as maintaining directors' and officers' liability insurance. We cannot predict or estimate the amount of additional costs we will incur as a public company or the specific timing of such costs, and any such costs may adversely affect our business, financial condition and results of operations.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements about us and our industry that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this prospectus, including statements regarding our future results of operations or financial condition, business strategy and plans and objectives of management for future operations, are forward-looking statements. In some cases, you can identify forward-looking statements because they contain words such as “anticipate,” “believe,” “contemplate,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “target,” “will” or “would” or the negative of these words or other similar terms or expressions. These forward-looking statements include, but are not limited to, statements concerning the following:

- the evolving treatment paradigm for cancer, including physicians’ use of molecular data and targeted oncology therapeutics and the market size for our current and future products;
- our ability to expand our business beyond oncology into new disease areas;
- estimates of our addressable market and our expectations regarding our revenue, expenses, capital requirements and operating results;
- our ability to develop new products and services, including our goals and strategy regarding development and commercialization of AI Applications;
- our ability to maintain and grow our datasets, including in new disease areas and geographies;
- any expectation that the growth of our datasets will improve the quality of our products and services and accelerate their adoption;
- our ability to capture, aggregate, analyze or otherwise utilize genomic data in new ways and in additional diagnostic modalities;
- any expectation that we will continue to commercialize de-identified records and license them to multiple customers;
- the acceptance of our publications in peer-reviewed journals or of our presentations at scientific and medical conference presentations;
- the implementation of our business model and strategic plans for our products, technologies and businesses;
- competitive companies and technologies and our industry;
- the potential of Intelligent Diagnostics to be disruptive across a broad set of disease areas and the clinical trial process;
- our ability to manage and grow our business by expanding our sales to existing customers or introducing our products to new customers;
- third-party payer reimbursement and coverage decisions, including our strategy to increase reimbursement;
- our ability to establish and maintain intellectual property protection for our products or avoid claims of infringement;
- potential effects of evolving and/or extensive government regulation;
- the timing or likelihood of regulatory filings and approvals;
- our ability to hire and retain key personnel;
- our ability to expand internationally, including through the Joint Venture in Japan;
- our ability to successfully acquire businesses, form joint ventures or make investments in companies or technologies;

Table of Contents

- our ability to protect and enforce our intellectual property rights, including our trade secret protected proprietary rights in our platform;
- our ability to service or pay down existing or future debt obligations;
- our anticipated cash needs and our needs for additional financing;
- anticipated trends and challenges in our business and the markets in which we operate;
- the expiration or release of lock-up agreements or market standoff agreements, anticipation of such events, and sales of shares of our Class A common stock by our stockholders; and
- our intended use of proceeds from this offering.

You should not rely on forward-looking statements as predictions of future events. We have based the forward-looking statements contained in this prospectus primarily on our current expectations and projections about future events and trends that we believe may affect our business, financial condition and operating results. The outcome of the events described in these forward-looking statements is subject to risks, uncertainties and other factors described in the section titled “Risk Factors” and elsewhere in this prospectus. Moreover, we operate in a very competitive and rapidly changing environment. New risks and uncertainties emerge from time to time, and it is not possible for us to predict all risks and uncertainties that could have an impact on the forward-looking statements contained in this prospectus. The results, events and circumstances reflected in the forward-looking statements may not be achieved or occur, and actual results, events or circumstances could differ materially from those described in the forward-looking statements.

In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based on information available to us as of the date of this prospectus. And while we believe that information provides a reasonable basis for these statements, that information may be limited or incomplete. Our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all relevant information. These statements are inherently uncertain, and investors are cautioned not to unduly rely on these statements.

The forward-looking statements made in this prospectus relate only to events as of the date on which the statements are made. We undertake no obligation to update any forward-looking statements made in this prospectus to reflect events or circumstances after the date of this prospectus or to reflect new information or the occurrence of unanticipated events, except as required by law. We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments.

MARKET, INDUSTRY AND OTHER DATA

This prospectus contains statistical data, estimates and forecasts that are based on independent industry publications or other publicly available information, as well as other information based on our internal sources. While we believe the industry and market data included in this prospectus are reliable and are based on reasonable assumptions, these data involve many assumptions and limitations, and you are cautioned not to give undue weight to these estimates. We have not independently verified the accuracy or completeness of the data contained in these industry publications and other publicly available information. None of the industry publications referred to in this prospectus were prepared on our or on our affiliates' behalf or at our expense. The industry in which we operate is subject to a high degree of uncertainty and risk due to a variety of factors, including those described in the sections titled "Risk Factors" and "Special Note Regarding Forward-Looking Statements." Among other items, certain of the market research included in this prospectus was published prior to the outbreak of the COVID-19 pandemic and did not anticipate the virus or the impact it has caused on our industry. We have utilized this pre-pandemic market research in the absence of updated sources. These and other factors could cause results to differ materially from those expressed in the projections and estimates made by the independent third parties and us. See the section titled "Risk Factors—Risks Related to Our Business and Strategy—The sizes of the markets for our current and future products have not been established with precision, and may be smaller than we estimate."

The sources of certain statistical data, estimates and forecasts contained in this prospectus are the following independent industry publications, reports and other publicly available information:

- Mordor Intelligence, Biomarkers Market—Growth, Trends, COVID-19 Impact, and Forecast (2024-2029), 2023
- Mordor Intelligence, Clinical Trials Market—Growth, Trends, COVID-19 Impact, and Forecast (2024-2029), 2023
- Evaluate Pharma, World Preview 2023, Outlook to 2028, August 2023
- Fortune Business Insights, Real World Evidence Solutions Market, April 2024
- American Clinical Laboratory Association, Value of Lab Testing, 2022
- National Cancer Institute, Cancer Statistics, November 2022
- ClinicalTrials.gov database, 2024: U.S. National Library of Medicine
- GLOBOCAN 2024 database, 2024: Global Cancer Observatory
- National Institute of Mental Health, Major Depression, January 2022
- Anxiety & Depression Association of America, Facts & Statistics, 2021
- Cancers (Basel), PARP Inhibitors in the Treatment of Early Breast Cancer: The Step Beyond?, June 2020
- Gynecologic Oncology, Frequencies of BRCA1 and BRCA2 Mutations Among 1,342 Unselected Patients with Invasive Ovarian Cancer, May 2011
- Journal of Oncology, BRCA Mutations in Prostate Cancer: Prognostic and Predictive Implications, 2020
- World Journal of Urology, Efficacy of Routine Follow-up After First-Line Treatment of Testicular Cancer, October 2004
- The Global Economic Burden of Non-communicable Diseases, Harvard School of Public Health, World Economic Forum (September 2011)
- Mental Health and Substance Use, Mental Health in the Workplace, World Health Organization
- World Cancer Report 2014, International Agency for Research on Cancer, World Health Organization (2014)

[Table of Contents](#)

- CoronavirusUpdate: COVID-19 likely to cost economy \$1 trillion during 2020, says UN trade agency, United Nations, UN News (March 9, 2020)
- American Cancer Society, Cancer Treatment & Survivorship Facts & Figures 2022-2024, 2022
- The Cancer Atlas, The Burden of Cancer, 2019.

USE OF PROCEEDS

We estimate that we will receive net proceeds from this offering of approximately \$361.1 million (or approximately \$416.9 million if the underwriters' over-allotment option is exercised in full) based on an assumed initial public offering price of \$36.00 per share of Class A common stock, the midpoint of the estimated price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

Each \$1.00 increase (decrease) in the assumed initial public offering price of \$36.00 per share of Class A common stock, the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase (decrease) the net proceeds from this offering by approximately \$10.3 million, assuming the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting estimated underwriting discounts and commissions. Similarly, each increase (decrease) of 1,000,000 shares in the number of shares of Class A common stock offered by us would increase (decrease) the net proceeds to us from this offering by approximately \$33.5 million, assuming the assumed initial public offering price of \$36.00 per share of Class A common stock remains the same, and after deducting estimated underwriting discounts and commissions.

We intend to use approximately \$74.5 million of the net proceeds from this offering to pay federal and state tax withholding and remittance obligations related to the RSU Net Settlement, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus. A \$1.00 increase (decrease) in the assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase or decrease, as applicable, the amount of net proceeds from this offering used to pay federal and state tax withholding and remittance obligations related to the RSU Net Settlement by approximately \$2.1 million.

As of the date of this prospectus, we cannot specify with certainty all of the particular uses for the remaining net proceeds of this offering. However, we currently intend to use the remaining net proceeds of this offering for general corporate purposes, including working capital, operating expenses, repayment of debt and capital expenditures. We may also use a portion of the net proceeds to acquire complementary businesses, products, services or technologies, or to pay down existing debt obligations. At this time, we do not have agreements or commitments to enter into any material acquisitions.

In September 2022, we entered into a credit agreement with Ares Capital Corporation, or Ares, for a senior secured loan of up to \$175 million, to provide working capital and for general corporate purposes, including to finance growth initiatives and pay for operating expenses. The aggregate principal amount under this loan was increased by an additional \$50 million in April 2023 pursuant to a first amendment to the credit agreement, and by an additional \$35 million in October 2023 pursuant to a second amendment to the credit agreement. Such term loan facility, as amended, is referred to as the Term Loan Facility. As of March 31, 2024, the interest rate on the Term Loan Facility was 10.33%. As of March 31, 2024, there was \$265.8 million gross principal amount outstanding under the Term Loan Facility. We may use the net proceeds from this offering to pay down, in whole or in part, the Term Loan Facility.

We will have broad discretion over how to use the net proceeds from this offering. We intend to invest the net proceeds to us from this offering that are not used as described above in investment-grade, interest-bearing instruments.

DIVIDEND POLICY

Since our incorporation in 2015, we have paid an aggregate of \$38.1 million in cash dividends and issued 114,246 shares of Series G-3 convertible preferred stock and 10,666 shares of Series G-4 convertible preferred stock as paid-in-kind dividends to holders of our preferred stock in satisfaction of dividend obligations accruing pursuant to our certificate of incorporation in effect prior to this offering. As of June 14, 2024, shares of our convertible preferred stock will have accrued approximately \$187.7 million in unpaid dividends, which are payable, at our option, in cash or shares of our common stock. We expect to pay these dividends in shares of our common stock in connection with the closing of this offering. See “Prospectus Summary—The Offering” for more information about shares of common stock to be issued in satisfaction of these dividend obligations.

Our amended and restated certificate of incorporation to be in effect upon the closing of this offering will not provide for accruing dividends. We currently intend to retain all available funds and future earnings, if any, to fund the development and expansion of our business, and we do not anticipate paying any cash dividends in the foreseeable future. Any future determination regarding the declaration and payment of dividends, if any, will be at the discretion of our board of directors and will depend on then-existing conditions, including our financial condition, operating results, contractual restrictions, capital requirements, business prospects and other factors our board of directors may deem relevant.

CAPITALIZATION

The following table sets forth our cash, cash equivalents and restricted cash and capitalization as of March 31, 2024:

- on an actual basis;
- on a pro forma basis, giving effect to (1) the Series B Preferred Stock Conversion and Transfer resulting in 5,043,789 shares of Class B common stock outstanding immediately following the consummation of this offering; (2) the issuance and sale of 3,489,981 shares of Series G-5 convertible preferred stock in April 2024 as if such issuance and sale had occurred on March 31, 2024; (3) the Preferred Stock Conversion resulting in the issuance of 66,935,254 shares of Class A common stock upon the closing of this offering, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus; (4) the Additional Class A Conversion Share Issuance resulting in the issuance of 5,227,001 Additional Class A Conversion Shares, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, upon the closing of this offering; (5) the payment of \$5.6 million of accrued cash dividends on certain shares of our convertible preferred stock on June 4, 2024, as if such payment had occurred on March 31, 2024; (6) the automatic conversion of all of our nonvoting common stock into 5,069,477 shares of Class A common stock, which will occur upon the closing of this offering; (7) the net issuance of 2,527,923 shares of Class A common stock upon the RSU Net Settlement, the issuance of 10,724,524 shares of Class A common stock upon the Additional RSU Settlement and the recognition of stock-based compensation expense of approximately \$478.9 million related to the vesting of RSUs outstanding as of March 31, 2024 for which the service-based condition will be satisfied on or before June 14, 2024 and for which the performance-based vesting condition will be satisfied in connection with this offering, as further described in Note 10 to our consolidated financial statements included elsewhere in this prospectus; (8) the Warrant Net Exercise; and (9) the filing and effectiveness of our amended and restated certificate of incorporation, which will occur upon the closing of this offering; and
- on a pro forma as adjusted basis, giving effect to (1) the pro forma adjustments set forth above, (2) the issuance and sale of 11,100,000 shares of Class A common stock and our receipt of \$365.3 million in estimated net proceeds from such sale at an assumed initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us (which offering expenses exclude \$4.1 million of deferred offering costs that have been previously paid as of March 31, 2024, but include \$4.1 million for deferred offering costs accrued and unpaid as of March 31, 2024 and \$2.3 million of deferred offering costs not yet accrued or paid as of March 31, 2024) and (3) the use of approximately \$74.5 million of the net proceeds from this offering to pay tax withholding and remittance obligations related to the RSU Net Settlement.

See “Prospectus Summary—The Offering—Additional Class A Conversion Shares” for a description of the Additional Class A Conversion Shares, as the number of Additional Class A Conversion Shares that will be issued depends on the initial public offering price of our Class A common stock.

You should read this table together with the section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our consolidated financial statements and related notes included elsewhere in this prospectus.

[Table of Contents](#)

	As of March 31, 2024		
	Actual	Pro Forma	Pro Forma As Adjusted
	(in thousands except share and per share amounts) (unaudited)		
Cash, cash equivalents and restricted cash	\$ 80,792	275,167	565,982
Convertible Promissory Note	186,733	186,733	186,733
Long term debt, net	259,196	259,196	259,196
Redeemable convertible preferred stock, \$0.0001 par value, 69,803,765 shares authorized, 63,603,084 shares issued and outstanding, actual; no shares authorized, issued and outstanding, pro forma and pro forma as adjusted	1,134,802	—	—
Stockholders' (deficit) equity:			
Preferred stock, \$0.0001 par value, no shares authorized, issued, and outstanding, actual; 20,000,000 shares authorized, no shares issued and outstanding, pro forma and pro forma as adjusted	—	—	—
Non-voting common Stock, \$0.0001 par value, 66,946,627 shares authorized, 5,214,943 shares issued and 5,069,477 shares outstanding, actual; no shares authorized, issued and outstanding, pro forma and pro forma as adjusted	0	—	—
Class A common stock, \$0.0001 par value, 200,228,024 shares authorized 58,367,961 shares issued and outstanding, actual; 1,000,000,000 shares authorized, 148,960,473 shares issued and outstanding, pro forma; 1,000,000,000 shares authorized, 160,060,473 shares issued and outstanding, pro forma as adjusted	6	15	16
Class B common stock, \$0.0001 par value, 5,374,899 shares authorized no shares issued and outstanding, actual; 5,500,000 shares authorized, 5,043,789 shares issued and outstanding, pro forma and pro forma as adjusted	—	1	1
Treasury stock	(3,602)	(3,602)	(3,602)
Additional paid-in-capital	18,689	1,846,167	2,206,971
Accumulated other comprehensive (loss) income	(51)	(51)	(51)
Accumulated deficit	(1,489,467)	(1,979,434)	(2,053,570)
Total Stockholders' (deficit) equity:	\$ (1,474,425)	(136,905)	149,764
Total capitalization	\$ 106,306	309,024	595,693

A \$1.00 increase (decrease) in the assumed initial public offering price of \$36.00 per share of Class A common stock, the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase (decrease) each of our pro forma as adjusted cash, cash equivalents and restricted cash, additional paid-in capital, total stockholders' (deficit) equity and total capitalization by approximately \$10.3 million, assuming the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting estimated underwriting discounts and commissions. Similarly, each increase (decrease) of 1,000,000 shares in the number of shares of Class A common stock offered by us would increase (decrease) each of our pro forma as adjusted cash, cash equivalents and restricted cash, additional paid-in capital, total stockholders' (deficit) equity and total capitalization by approximately \$33.5 million, assuming the assumed initial public offering price of \$36.00 per share of Class A common stock remains the same, and after deducting estimated underwriting discounts and commissions.

[Table of Contents](#)

The number of shares of Class A common stock and Class B common stock that will be outstanding immediately after this offering as noted above is based on 160,060,473 shares of Class A common stock and 5,043,789 shares of Class B common stock outstanding as of March 31, 2024 (assuming the Preferred Stock Conversion), assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, which will occur upon the closing of this offering, and the Series B Preferred Stock Conversion and Transfer, and excludes:

- 5,472,557 shares of Class A common stock issuable on the vesting and settlement of RSUs outstanding as of March 31, 2024 under our 2015 Plan, for which the performance-based vesting condition will be satisfied in connection with this offering, but for which the service-based vesting condition will not be satisfied on or before June 14, 2024;
- 1,527,044 shares of Class A common stock issuable upon the settlement of RSUs granted after March 31, 2024 under the 2015 Plan;
- 7,430,000 shares of Class A common stock reserved for future issuance under our 2024 Plan, as well as any future increases, including annual automatic evergreen increases (as described in the section of this prospectus titled “Executive Compensation—Equity Incentive Plans”), in the number of shares of Class A common stock reserved for issuance under the 2024 Plan;
- 3,000,000 shares of Class A common stock reserved for future issuance under the ESPP, as well as any future increases, including annual automatic evergreen increases (as described in the section of this prospectus titled “Executive Compensation—Equity Incentive Plans”), in the number of shares of Class A common stock reserved for issuance under the ESPP;
- 210,000 shares of Class A common stock issuable on the exercise of a stock option outstanding as of March 31, 2024 under the 2015 Plan, with an exercise price of \$0.8542 per share;
- shares of Class A common stock issuable upon conversion of the Amended Note, which is convertible beginning in March 2026 into a number of shares determined by dividing (i) the then outstanding principal amount of such note (which was \$186.7 million as of March 31, 2024) plus accrued and unpaid interest by (ii) the average of the last trading price of our Class A common stock on each trading day during the twenty day period ending immediately prior to March 22, 2026, as more fully described in the section of this prospectus titled “Description of Capital Stock—Convertible Promissory Note”;
- 2,777,778 shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, issuable upon the exercise of the warrant issued to AstraZeneca with an exercise price equal to the initial public offering price, as more fully described in the section of this prospectus titled “Business—Operations—Our Strategic Collaboration—AstraZeneca Master Services Agreement”;
- up to \$9.0 million in shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, issuable to one of our stockholders pursuant to a contingent payment right, which payment may be made in cash or shares of Class A common stock, upon mutual agreement of us and such stockholder;
- up to 35,000 shares of Class A common stock issuable to former stockholders of SEngine based on the average of the trading prices of our Class A common stock for the seven trading days immediately after the effective date of this offering; and
- additional shares of our Class A common stock in an amount up to 15.0% of the total number of shares of our common stock outstanding immediately following this offering, which we may issue in connection with acquisitions, joint ventures, commercial agreements and after similar arrangements pursuant to an exception from our lock-up during the 180-day period following the date of this prospectus, as further described in the section entitled “Underwriting.”

DILUTION

If you invest in our Class A common stock in this offering, your interest will be diluted to the extent of the difference between the initial public offering price per share of Class A common stock and the pro forma as adjusted net tangible book value per share immediately after this offering.

Our historical net tangible book value (deficit) as of March 31, 2024 was \$(1,575.0) million, or \$(24.83) per share. Our historical net tangible book value (deficit) per share represents the amount of our total tangible assets less our total liabilities and the carrying value of our redeemable convertible preferred stock, which is not included within stockholders' equity, divided by the 63,437,438 shares of common stock outstanding as of March 31, 2024. Our pro forma net tangible book value as of March 31, 2024 was \$(237.5) million, or \$(1.54) per share. Our pro forma net tangible book value per share represents the amount of our total tangible assets less our total liabilities, divided by the number of our shares of common stock outstanding as of March 31, 2024, after giving effect to (1) Series B Preferred Stock Conversion and Transfer resulting in 5,043,789 shares of Class B common stock outstanding immediately following the consummation of this offering; (2) the issuance and sale of 3,489,981 shares of Series G-5 convertible preferred stock in April 2024 as if such sale and issuance had occurred on March 31, 2024; (3) the Preferred Stock Conversion resulting in the issuance of 66,935,254 shares of Class A common stock upon the closing of this offering, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus; (4) the Additional Class A Conversion Share Issuance resulting in the issuance of 5,227,001 Additional Class A Conversion Shares, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, upon the conversion of all outstanding shares of our redeemable convertible preferred stock upon the closing of this offering; (5) the payment of \$5.6 million of accrued cash dividends on certain shares of our convertible preferred stock on June 4, 2024, as if such payment had occurred on March 31, 2024; (6) the automatic conversion of all of our nonvoting common stock into 5,069,477 shares of Class A common stock, which will occur upon the closing of this offering; (7) the net issuance of 2,527,923 shares of Class A common stock upon the RSU Net Settlement, the issuance of 10,724,524 shares of Class A common stock upon the Additional RSU Settlement and the recognition of stock-based compensation expense of approximately \$478.9 million related to the vesting of RSUs outstanding as of March 31, 2024 for which the service-based vesting condition will be satisfied on or before June 14, 2024 and for which the performance-based vesting condition will be satisfied in connection with this offering as further described in Note 10 to our consolidated financial statements included elsewhere in this prospectus; (8) the Warrant Net Exercise; and (9) the filing and effectiveness of our amended and restated certificate of incorporation, which will occur upon the closing of this offering. See "Prospectus Summary—The Offering—Additional Class A Conversion Shares" for a description of the Additional Class A Conversion Shares, as the number of Additional Class A Conversion Shares that will be issued depends on the initial public offering price of our Class A common stock.

After giving effect to the sale by us of 11,100,000 shares of Class A common stock in this offering at an assumed initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us (which offering expenses exclude \$4.1 million of deferred offering costs that have been previously paid as of March 31, 2024, but include \$4.1 million for deferred offering costs accrued and unpaid as of March 31, 2024 and \$2.3 million of deferred offering costs not yet accrued or paid as of March 31, 2024) and the use of approximately \$74.5 million of the net proceeds from this offering to pay tax withholding and remittance obligations related to the RSU Net Settlement, our pro forma as adjusted net tangible book value as of March 31, 2024 would have been \$57.4 million, or \$0.35 per share. This amount represents an immediate increase in pro forma as adjusted net tangible book value of \$1.89 per share to our existing stockholders and an immediate dilution of \$35.65 per share to new investors purchasing Class A common stock.

[Table of Contents](#)

in this offering. We determine dilution by subtracting the pro forma as adjusted net tangible book value per share after this offering from the initial public offering price per share paid by investors purchasing Class A common stock in this offering. The following table illustrates this dilution on a per share basis:

Assumed initial public offering price per share	\$ 36.00
Historical net tangible book value (deficit) per share as of March 31, 2024	\$ (24.83)
Increase per share attributable to the pro forma adjustments described above	23.29
Pro forma net tangible book value per share as of March 31, 2024	(1.54)
Increase in pro forma as adjusted net tangible book value per share attributable to new investors purchasing shares in this offering	1.89
Pro forma as adjusted net tangible book value per share after giving effect to this offering	0.35
Dilution per share to new investors in this offering	\$ 35.65

The dilution information discussed above is illustrative only and may change based on the actual initial public offering price and other terms of this offering. Each \$1.00 increase (decrease) in the assumed initial public offering price of \$36.00 per share of Class A common stock, the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase (decrease) our pro forma as adjusted net tangible book value per share by \$0.06 per share and increase (decrease) the dilution to new investors by \$0.94 per share, in each case assuming the number of shares of Class A common stock offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting estimated underwriting discounts and commissions. Similarly, each increase (decrease) of 1,000,000 shares in the number of shares of Class A common stock offered by us would increase (decrease) our pro forma as adjusted net tangible book value by approximately \$0.20 per share and decrease (increase) the dilution to new investors by approximately \$(0.20) per share, in each case assuming the assumed initial public offering price of \$36.00 per share of Class A common stock remains the same, and after deducting estimated underwriting discounts and commissions.

The following table summarizes, as of March 31, 2024, on a pro forma as adjusted basis as described above, the aggregate number of shares of our Class A common stock and Class B common stock, the total consideration and the average price per share (1) paid to us by existing stockholders, and (2) to be paid by new investors acquiring our Class A common stock in this offering at an assumed initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, before deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

	Shares Purchased		Total Consideration		Average Price Per Share
	Number	Percent	Amount	Percent	
Existing stockholders	\$ 154,004,262	93.3%	\$ 1,846,182,000	82.2%	\$ 11.99
New investors	11,100,000	6.7	399,600,000	17.8	\$ 36.00
Totals	\$ 165,104,262	100.0%	\$ 2,245,782,000	100.0%	\$ 13.60

Each \$1.00 increase (decrease) in the assumed initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase (decrease) the total consideration paid by new investors and total consideration paid by all stockholders by \$10.3 million, assuming that the number of shares of Class A common stock offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting estimated underwriting discounts and commissions. Similarly, each increase (decrease) of 1,000,000 shares in the number of shares of Class A common stock offered by us would increase (decrease) the total consideration paid by new investors and total consideration paid by all stockholders by \$33.5 million, assuming the assumed initial public offering price of \$36.00 per share of Class A common stock remains the same, and after deducting estimated underwriting discounts and commissions.

[Table of Contents](#)

The number of shares of Class A common stock and Class B common stock that will be outstanding immediately after this offering as noted above is based on 160,060,473 shares of Class A common stock and 5,043,789 shares of Class B common stock outstanding as of March 31, 2024 (assuming the Preferred Stock Conversion), assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, and the Series B Preferred Stock Conversion and Transfer, and excludes:

- 5,472,557 of Class A common stock issuable on the vesting and settlement of RSUs outstanding as of March 31, 2024 under our 2015 Plan, for which the performance-based vesting condition will be satisfied in connection with this offering, but for which the service-based vesting condition will not be satisfied on or before June 14, 2024;
- 1,527,044 shares of Class A common stock issuable upon the settlement of RSUs granted after March 31, 2024 under the 2015 Plan;
- 7,430,000 shares of Class A common stock reserved for future issuance under our 2024 Plan, as well as any future increases, including annual automatic evergreen increases (as described in the section of this prospectus titled “Executive Compensation—Equity Incentive Plans”), in the number of shares of Class A common stock reserved for issuance under the 2024 Plan;
- 3,000,000 shares of Class A common stock reserved for future issuance under the ESPP, as well as any future increases, including annual automatic evergreen increases (as described in the section of this prospectus titled “Executive Compensation—Equity Incentive Plans”), in the number of shares of Class A common stock reserved for issuance under the ESPP;
- 210,000 shares of Class A common stock issuable on the exercise of a stock option outstanding as of March 31, 2024 under the 2015 Plan, with an exercise price of \$0.8542 per share;
- shares of Class A common stock issuable upon conversion of the Amended Note, which is convertible beginning in March 2026 into a number of shares determined by dividing (i) the then outstanding principal amount of such note (which was \$186.7 million as of March 31, 2024) plus accrued and unpaid interest by (ii) the average of the last trading price of our Class A common stock on each trading day during the twenty day period ending immediately prior to March 22, 2026, as more fully described in the section of this prospectus titled “Description of Capital Stock—Convertible Promissory Note”;
- 2,777,778 shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, issuable upon the exercise of the warrant issued to AstraZeneca with an exercise price equal to the initial public offering price, as more fully described in the section of this prospectus titled “Business—Operations—Our Strategic Collaboration—AstraZeneca Master Services Agreement”;
- up to \$9.0 million in shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, issuable to one of our stockholders pursuant to a contingent payment right, which payment may be made in cash or shares of Class A common stock, upon mutual agreement of us and such stockholder;
- up to 35,000 shares of Class A common stock issuable to former stockholders of SEngine based on the average of the trading prices of our Class A common stock for the seven trading days immediately after the effective date of this offering; and
- additional shares of our Class A common stock in an amount up to 15.0% of the total number of shares of our common stock outstanding immediately following this offering, which we may issue in connection with acquisitions, joint ventures, commercial agreements and other similar arrangement pursuant to an exception from our lock-up during the 180-day period following the date of this prospectus, as further described in the section entitled “Underwriting.”

[Table of Contents](#)

To the extent that any outstanding options are exercised, outstanding RSUs vest and settle or new options or RSUs are issued under our stock-based compensation plans, or we issue additional shares of Class A common stock in the future, there will be further dilution to investors participating in this offering. If all outstanding options and RSUs under the 2015 Plan as of March 31, 2024 were exercised or vested and settled, as applicable, then our existing stockholders, including the holders of these options and RSUs, would own approximately 94% and our new investors would own approximately 6% of the total number of shares of our Class A common stock and Class B common stock outstanding on the closing of this offering.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with the consolidated financial statements and related notes included elsewhere in this prospectus. Some of the information contained in this discussion and analysis, including information with respect to our planned investments in our sales and marketing, research and development, and general and administrative functions, includes forward-looking statements that involve risks and uncertainties. You should review the sections titled "Special Note Regarding Forward-Looking Statements" and "Risk Factors" for a discussion of forward-looking statements and important factors that could cause actual results to differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis.

Overview

Tempus is a technology company focused on healthcare that straddles two converging worlds. We strive to combine deep healthcare expertise, providing next-generation diagnostics across multiple disease areas, with leading technology capabilities, harnessing the power of data and analytics to help personalize medicine. We endeavor to unlock the true power of precision medicine by creating Intelligent Diagnostics through the practical application of artificial intelligence, or AI, in healthcare. Intelligent Diagnostics use AI, including generative AI, to make laboratory tests more accurate, tailored, and personal. Unlike traditional diagnostic labs, we can incorporate unique patient information, such as clinical, molecular, and imaging data, with the goal of making our tests more intelligent and our results more insightful. Unlike other technology companies, we are deeply rooted in clinical care delivery as one of the largest sequencers of cancer patients, and patients with other diseases, in the United States. Straddling both worlds is advantageous as we believe Intelligent Diagnostics represent the future of precision medicine, informing more personalized and data-driven therapy selection and development. We believe their adoption could empower physicians to deliver better care and researchers to develop more precise therapies, with the potential to save millions of lives.

In order to bring AI to healthcare at scale, we believe the foundation of how data flows throughout the ecosystem needs to be rebuilt. We established new data pipes, going to and from providers, to allow for the free exchange of data between physicians, who interpret data, and diagnostic and life science companies, who provide data, integrating relevant clinical data, such as outcomes, or adverse events, which are essential for many clinical decisions. Without this capability, we believe that data would continue to accumulate without impacting patient care. To accomplish this, we built both a technology platform to free healthcare data from silos and an operating system to make this data useful, the combination of which we refer to as our Platform. Our Platform connects multiple stakeholders within the larger healthcare ecosystem, often in real time, to assemble and integrate the data we collect, thereby providing an opportunity for physicians to make data-driven decisions in the clinic and for researchers to discover and develop therapeutics. We aim to help physicians find the best therapies for their patients, help pharmaceutical and biotechnology companies make the best drugs possible, and enable patients to access emerging therapies and clinical trials when appropriate.

We primarily operate in the United States and generated total revenue of \$320.7 million and \$531.8 million in the years ended December 31, 2022 and 2023, respectively, and \$115.6 million and \$145.8 million in the three months ended March 31, 2023 and 2024, respectively. In the years ended December 31, 2022 and 2023 and the three months ended March 31, 2023 and 2024, revenue from one customer accounted for 8.3%, 8.3%, 6.3%, and 6.6%, respectively, of our total revenue. In the year ended December 31, 2023 and the three months ended March 31, 2023 and 2024, revenue from an additional customer accounted for 5.1%, 6.0%, and 5.7% of our total revenue, respectively. The same customer did not represent a significant portion of total revenue for the year ended December 31, 2022. We also incurred net losses of \$289.8 million and \$214.1 million in the years ended December 31, 2022 and 2023, respectively, and \$54.4 million and \$64.7 million in the three months ended March 31, 2023 and 2024, respectively. We generated adjusted EBITDA of \$(238.8) million and \$(154.2) million in the years ended December 31, 2022 and 2023, respectively, and \$(45.9) million and \$(43.9) million in the

[Table of Contents](#)

three months ended March 31, 2023 and 2024, respectively. Adjusted EBITDA is a non-GAAP financial measure. For a reconciliation of adjusted EBITDA to net loss, the most directly comparable financial measure stated in accordance with generally accepted accounting principles in the United States of America, or GAAP, and for additional information about adjusted EBITDA, a non-GAAP financial measure, see the section titled “—Non-GAAP Financial Measure” below.

Our Business Model

We currently offer three product lines: Genomics, Data, and AI Applications. Each product line is designed to enable and enhance the others, thereby creating network effects in each of the markets in which we operate. We are able to commercialize records multiple times, both at the time a test is run and thereafter. As a result, we differ from traditional diagnostics companies that need to focus on maximizing gross profit when performing a test. At its core, our business model consists of generating, ingesting and structuring vast amounts of multimodal data through our Genomics product line and commercializing de-identified copies of such data through partnerships with our pharmaceutical customers to aid their drug discovery and development efforts.

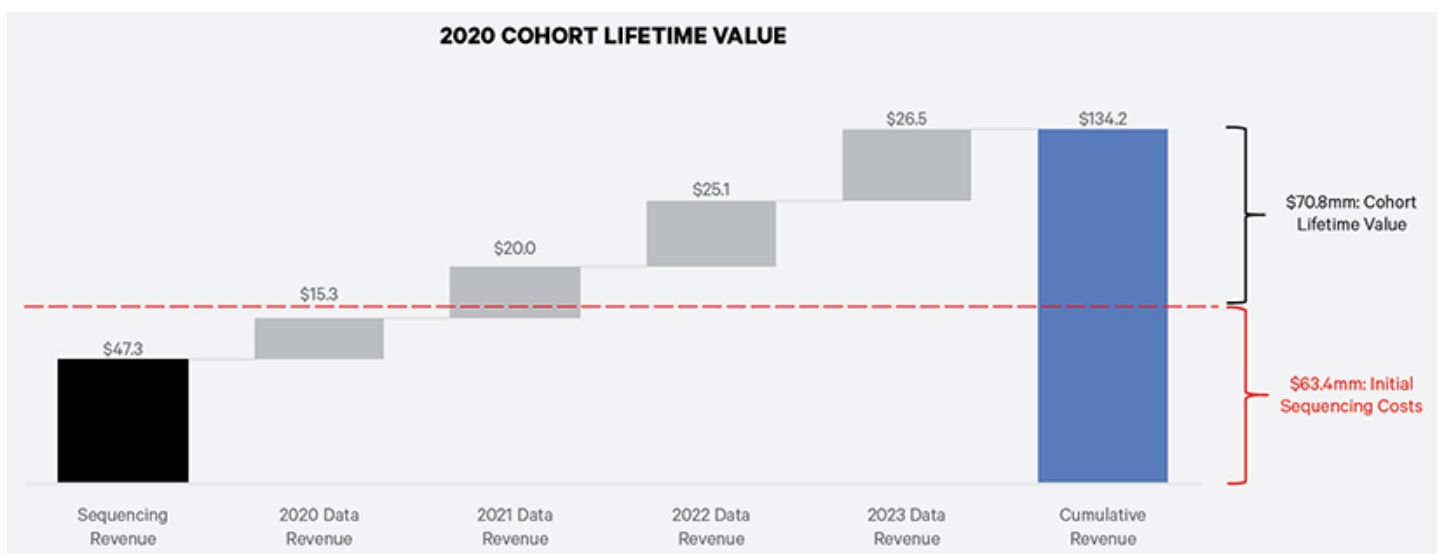
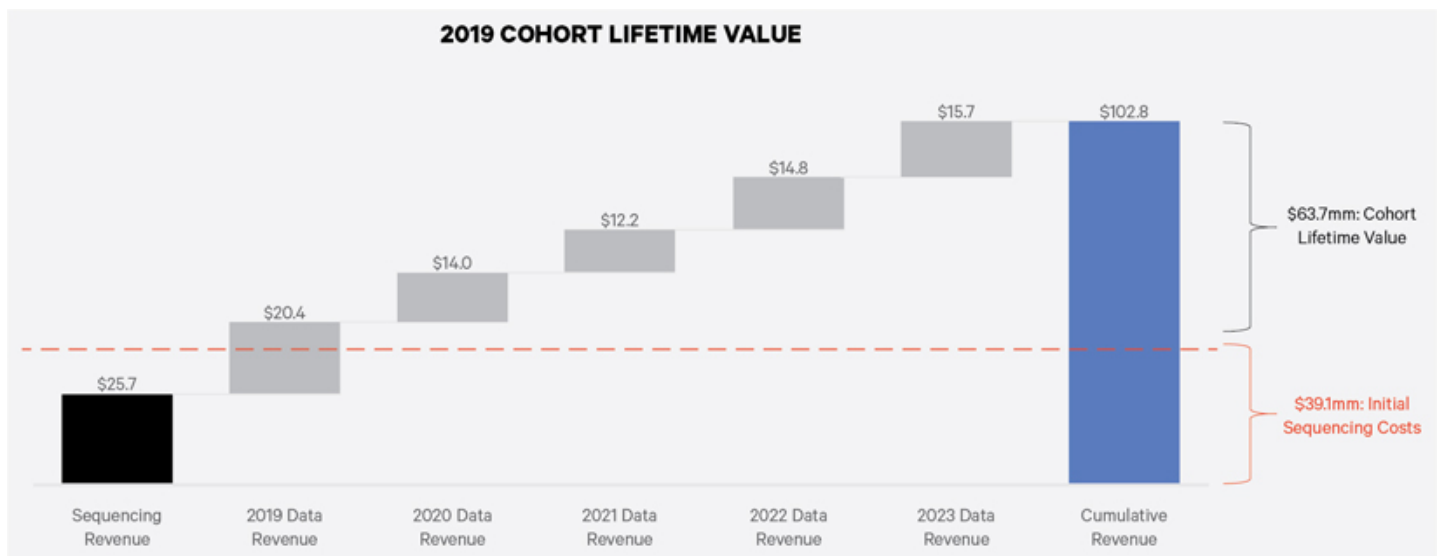
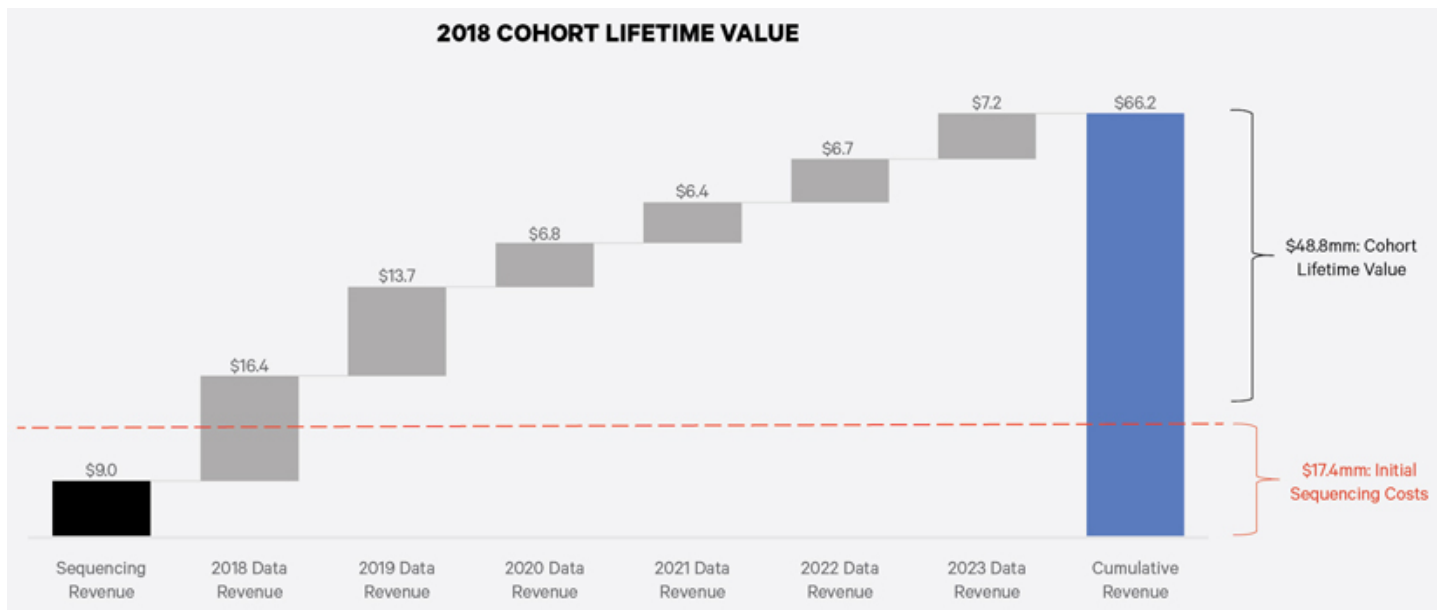
We invest in our database by generating high-quality molecular data and ingesting and structuring the longitudinal clinical records for many of the patients we sequence. While this investment in our business model comes with additional upfront costs, these investments benefit key stakeholders in the healthcare ecosystem over time:

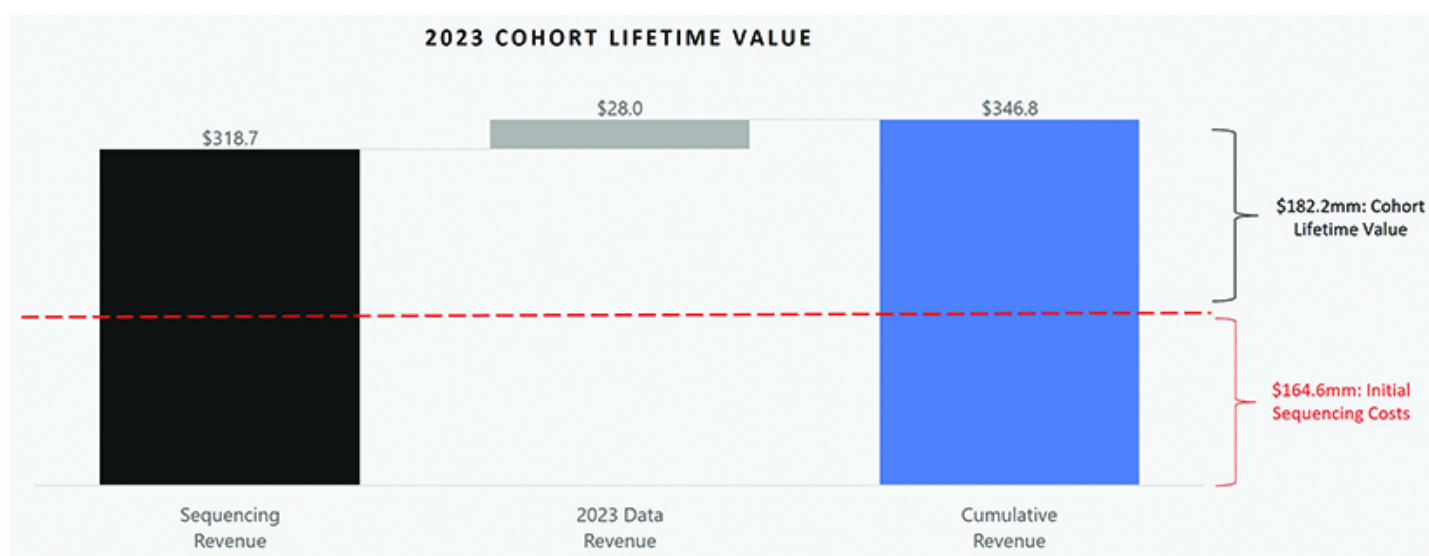
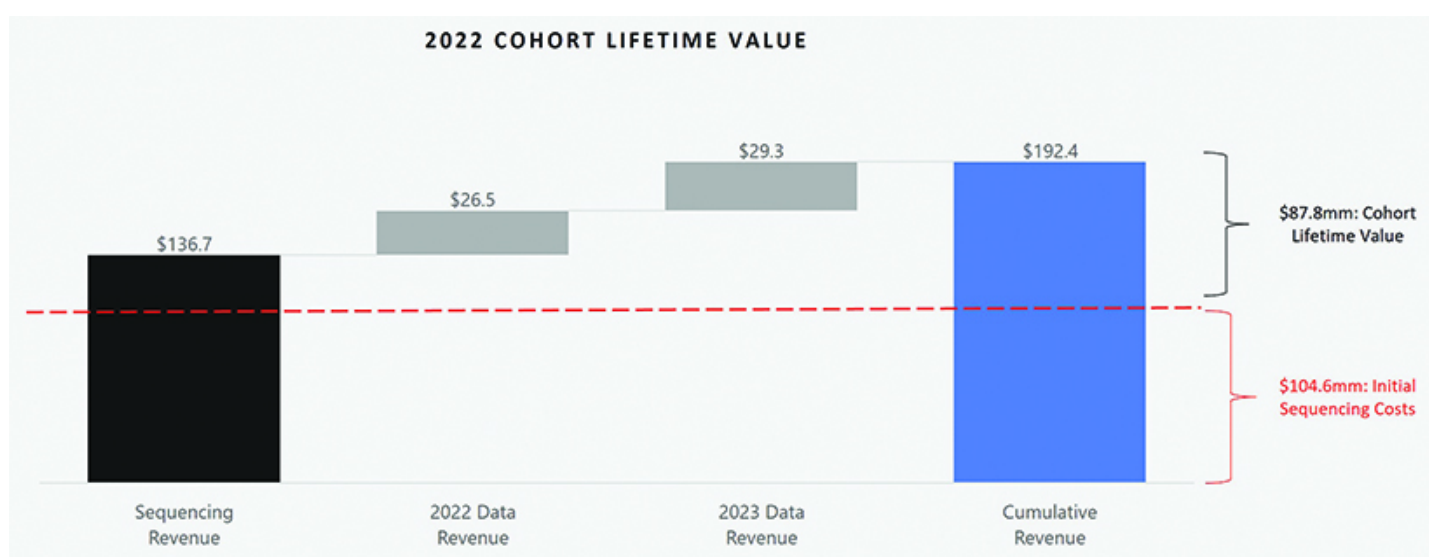
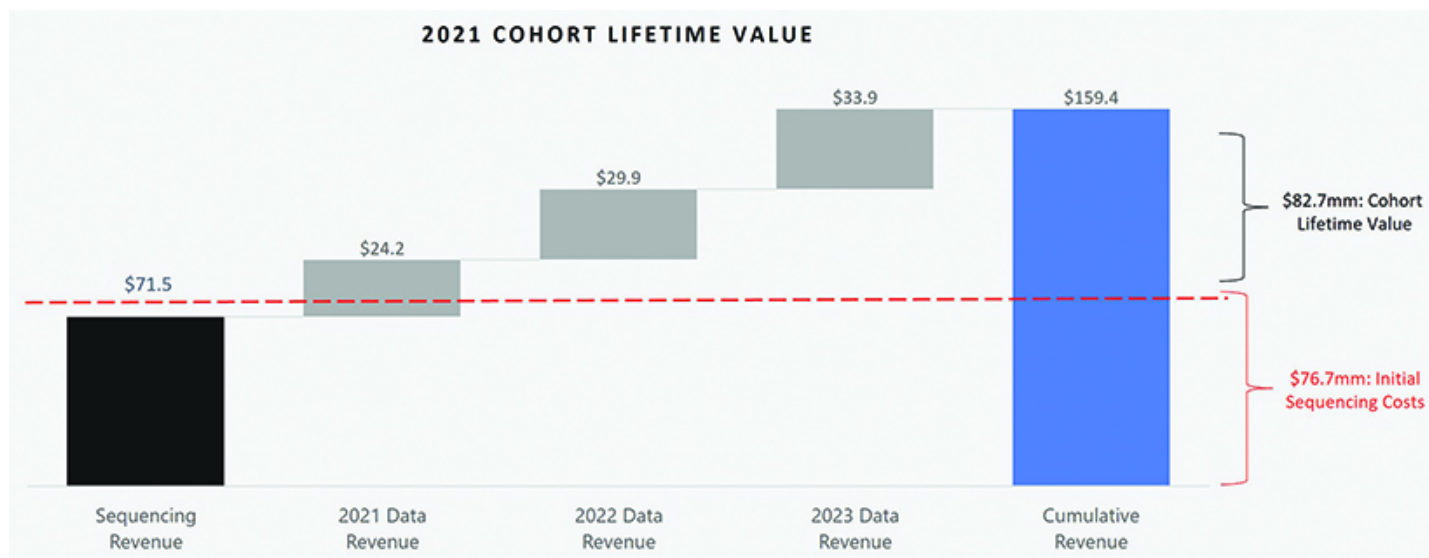
- Healthcare providers benefit from a tailored test result that provides information that can be used in routing patients to the most effective therapy.
- Pharmaceutical and biotechnology companies benefit by licensing deep molecular data and longitudinal clinical data that they can leverage in their drug development efforts.
- We benefit by leveraging the multimodal data to make our current tests more precise and/or to develop new algorithmic tests in the future.

Although we are only eight years old, the network effects described above have already been demonstrated with the cohort of records that were added to our database from 2018 to 2023. To illustrate one of the ways that our business model differs from traditional diagnostics companies, we present below the “Cohort Lifetime Value” derived from records in our de-identified dataset based on the year of data generation. We define “Cohort Lifetime Value” as the cumulative revenue attributable to a specific cohort of de-identified records, including revenue derived both from the initial sequencing (Genomics) and licensing and related services (Data and services), less the initial sequencing costs incurred to generate the data ultimately licensed. In 2018, the first full year that we operated a laboratory, we sequenced samples from approximately 7,500 patients. From that 2018 cohort of sequenced patients, through December 31, 2023, we generated \$66.2 million of combined revenue from sequencing, data licensing of de-identified data derived from those records, analytical services, and clinical trials matching, which is approximately 7.4 times the revenue we received from sequencing of that cohort in the initial year. The total cost to sequence the 2018 cohort was \$17.4 million, of which \$9.0 million was covered by reimbursement for the corresponding sequencing tests. We then generated \$16.4 million of data revenue from that cohort in 2018, finishing the year with a “Cohort Lifetime Value” of \$8.0 million. As more customers licensed de-identified records from the 2018 cohort in subsequent years, we generated additional revenue in 2019 to 2023 from the 2018 cohort, and as of December 31, 2023, the 2018 “Cohort Lifetime Value” was \$48.8 million. We experienced similar trends for the 2019 to 2023 cohorts. As of December 31, 2023, the 2019 “Cohort Lifetime Value” was \$63.7 million, the 2020 “Cohort Lifetime Value” was \$70.8 million, the 2021 “Cohort Lifetime Value” was \$82.7 million, the 2022 “Cohort Lifetime Value” was \$87.8 million, and the 2023 “Cohort Lifetime Value” was \$182.2 million in its first year of existence.

[Table of Contents](#)

The below charts, which illustrate the “Cohort Lifetime Values” from 2018 to 2023 demonstrate that we are not only able to generate revenue when we run an assay, but that we are also able to continue to commercialize the de-identified records for years following running the initial test. As a result, our focus is driving growth in our Genomics product line, which creates the opportunity to drive further growth in our other product lines.





Below is a description of each product line:

Genomics

Our Genomics product line leverages our state-of-the-art laboratories to provide next generation sequencing, or NGS, diagnostics, polymerase chain reaction, or PCR, profiling, molecular genotyping and other anatomic and molecular pathology testing to healthcare providers, pharmaceutical companies, biotechnology companies, researchers, and other third parties.

[Table of Contents](#)

When providing services to healthcare providers, we typically bill commercial payers or government-funded programs (i.e., Medicare and Medicaid) after delivering a test result. We typically operate as an out-of-network provider and the amount that we charge varies depending on the assay being run, the party being billed and other information about the patient's diagnosis. Revenue is generally recognized when we have met the performance obligation relating to an order. We have determined our sole performance obligation to be the delivery of the testing results to the ordering party.

When providing services to pharmaceutical companies, biotechnology companies, researchers, or other third parties, we will invoice the third party after delivering a test result. The amount that is invoiced and recognized as revenue is based on the sequencing of patient samples pursuant to contract terms.

Genomics revenue was \$198.0 million and \$363.0 million for the years ended December 31, 2022 and 2023, respectively, and \$82.1 million and \$102.6 million for the three months ended March 31, 2023 and 2024, respectively. Revenue generated from COVID-19 testing was \$22.2 million, or 6.9% of our total revenue, for the year ended December 31, 2022. Revenue generated from COVID-19 testing was \$2.6 million, or 2.3%, of our total revenue for the three months ended March 31, 2023. Revenue generated from COVID-19 testing was \$2.7 million, or 0.5% of total revenue, for the year ended December 31, 2023 and \$0 for the three months ended March 31, 2024, as we stopped offering COVID-19 PCR diagnostic tests in the first quarter of 2023.

Inclusive of xR, oncology NGS tests delivered for the years ended December 31, 2019, 2020, 2021, 2022 and 2023 were approximately 40,600, 64,300, 97,000, 148,000 and 218,700, respectively.

Data and Services

The data generated in our lab or ingested into our Platform as part of the Genomics product line is structured and de-identified, prior to commercialization. This de-identified database is then commercialized to our pharmaceutical and biotechnology partners to facilitate drug discovery and development through two primary Data and Services products, Insights and Trials.

Through our Insights product, we license libraries of linked clinical, molecular, and imaging de-identified data and provide a suite of analytical services to analytic and cloud-and-compute tools to pharmaceutical and biotechnology companies. Licensing fee prices are consistent across customers and priced based on the characteristics of the data being provided (i.e., number of clinical fields, type of data modalities, etc.). Revenue from our Insights product is generally recognized upon the delivery of licensed records, upon the completion of performance obligations for related services, or ratably over time in the case of subscriptions.

Our Trials product is designed to leverage the broad network of physicians we work with in oncology to provide clinical trial matching services for pharmaceutical companies that are looking to reach hard-to-find and underserved patient populations. This product is built on top of our real-time data feeds and harnesses AI to accelerate the connection between patients, clinical trial sites (hospitals), and clinical trial sponsors (life sciences companies). The fees charged to sponsors are typically fixed and based on a per match and/or per enrollment basis. Revenue from our Trials product is generally recognized upon a match between a patient and a trial in our network or upon enrollment of a patient that we matched to a trial in our network.

We also provide other clinical trial services and conduct our own studies as part of our Trials program, all with a goal of identifying new therapies and bringing them to market more efficiently. In January 2022, we acquired Highline Consulting, LLC, or Highline, a contract research organization, or CRO, which we subsequently renamed Tempus Compass, LLC, or Tempus Compass. Tempus Compass manages and executes early and late-stage clinical trials, primarily in oncology. We also partner with life sciences companies to sponsor studies of drugs, devices, and diagnostics, integrating our life science solutions to help bring new drugs to market faster. The products and services within our Trials program complement each other to create a suite of integrated solutions for life sciences companies from early discovery to commercialization.

[Table of Contents](#)

Data and services revenue was \$122.7 million and \$168.8 million for the years ended December 31, 2022 and 2023, respectively, and \$33.6 million and \$43.3 million for the three months ended March 31, 2023 and 2024, respectively. Our Data and services revenue is typically back-weighted towards the second half of the year based on the budgeting cycles of our customers.

AI Applications

Our third product line, AI Applications, is focused on developing and providing diagnostics that are algorithmic in nature, implementing new software as a medical device, and building and deploying clinical decision support tools. The primary product of AI Applications is currently “Next,” an AI platform that leverages machine learning to apply an “intelligent layer” onto routinely generated data to proactively identify and minimize care gaps for oncology and cardiology patients. As this product gains adoption, we intend to leverage large language models, generative AI algorithms, and our vast database of de-identified data to develop algorithmic diagnostics designed to identify these patients earlier in their disease progression, when treatments are most effective.

We launched our Algos product line in the fourth quarter of 2020 and currently offer a suite of algorithmic tests in oncology: our Tumor Origin, TO, test, our Homologous Recombination Deficiency, HRD, test, and our Dihydropyrimidine Dehydrogenase Deficiency, DPYD, test. Prior to January 1, 2023, we would typically bill commercial payers or government-funded programs (i.e., Medicare and Medicaid) after delivering a test result, similar to our Genomics product line. The amount that we would charge varied depending on the algorithms being run, the party being billed and other information about the patient’s diagnosis. Revenue was generally recognized based on estimated cash receipts determined by historical and current payment trends. We reported our Algos revenue within our Data and services product line. Beginning January 1, 2023, these three Algos are no longer being billed as individual tests as there is now a dedicated current procedural terminology, or CPT, code associated with the underlying laboratory diagnostic. Instead, we submit claims for the diagnostic, and revenue associated with those claims will be reported in our Genomics product line.

Through our acquisitions of Mpirik Inc., or Mpirik, and Arterys, Inc., we also have algorithmic solutions in market to identify potential care gaps and identify at-risk patients in cardiology. To date, revenue from these offerings are derived from the institution deploying the solutions.

While our AI Applications product line does not currently generate significant revenue, we believe it represents a significant opportunity for us and we will incur significant expenses over the next several years as we work to identify and develop algorithms that we can deploy into a clinical setting.

Strategic Collaborations

AstraZeneca

In November 2021, we entered into a Master Services Agreement, or, as amended in October 2022, February 2023 and December 2023, the MSA, with, and issued a warrant to, AstraZeneca AB, or AstraZeneca. Under the MSA, we agreed, on a non-exclusive basis, to provide AstraZeneca with certain of our products and services, including licensed data, sequencing, clinical trial matching, organoid modeling services, algorithm development, and others. In exchange for certain discounted prices, AstraZeneca has committed to spend a minimum of \$220 million on such products and services during the term of the MSA. The term of the MSA will continue through December 31, 2028, unless terminated sooner. The minimum commitment may increase to \$320 million upon the occurrence of any of the following events: (i) at AstraZeneca’s election on or before December 31, 2024, (ii) the date that AstraZeneca exercises the warrant issued pursuant to the terms thereof (as described below), or (iii) in the event of our initial public offering, if the average closing price of our common stock exceeds two times the offering price for any 30-day trading period following the one-year anniversary of such initial public offering.

Under the warrant, AstraZeneca has the right to purchase \$100 million in shares of our Class A common stock at an exercise price equal to the price per share at which our common stock is valued in connection with the

[Table of Contents](#)

consummation of this initial public offering. The warrant may be exercised any time following the date that is 180 days following the pricing of our initial public offering. AstraZeneca will be entitled to substantially the same registration rights with respect to the shares under the warrant as those granted to holders of registrable securities pursuant to our Ninth Amended and Restated Investors' Rights Agreement, dated November 19, 2020. See "Description of Capital Stock — Warrant." The warrant will be automatically canceled and terminated for no consideration, if not previously exercised, in the event AstraZeneca declines to extend its financial commitment before December 31, 2024. If AstraZeneca exercises the warrant, AstraZeneca will be required to increase its minimum commitment under the MSA to \$320 million. See "Business—Operations—Our Strategic Collaboration—AstraZeneca Master Services Agreement."

GlaxoSmithKline

In August 2022, we entered into a Strategic Collaboration Agreement, or, as amended in May 2024, the GSK Agreement, with GlaxoSmithKline, or GSK. Under the GSK Agreement, we agreed, on a non-exclusive basis, to provide GSK with certain of our products and services, including licensed data, sequencing, clinical trial matching, organoid modeling services, algorithm development, and others. In exchange for certain discounted prices, GSK has committed to spend a minimum of \$180 million on such products and services during the term of the GSK Agreement, of which \$70 million was paid upon execution. The term of the GSK Agreement will continue through December 31, 2027, unless terminated sooner. An additional commitment of up to \$120 million may be triggered at GSK's election for the years 2028, 2029 and 2030.

Recursion Master Agreement

In November 2023, we entered into a Master Agreement, or the Recursion Agreement, with Recursion Pharmaceuticals, Inc., or Recursion. Under the Recursion Agreement, we agreed to provide certain of our services and to license certain data to Recursion, including a limited right to access our proprietary database of de-identified clinical and molecular data for certain therapeutic product development purposes. In exchange for these rights, Recursion will pay an initial license fee of \$22 million and an annual license fee throughout the term of the agreement, which, together with the initial license fee, totals up to \$160 million. The term of the Recursion Agreement will continue through November 3, 2028, unless terminated sooner. In addition to mutual rights to terminate for an uncured breach of the Recursion Agreement, Recursion may terminate the agreement for convenience after three years upon 90 days prior notice, subject to payment by Recursion of an early termination fee.

The initial license fee and each annual license fee are payable at Recursion's option either in the form of (x) cash, (y) shares of Recursion's Class A common stock, or (z) a combination of cash and shares of Recursion's Class A common stock in such proportion as is determined by Recursion in its sole discretion; provided that the aggregate number of shares of Recursion's Class A common stock to be issued to us under the Recursion Agreement shall not exceed 19.9% of the aggregate total of shares of Recursion Class A common stock and Class B common stock outstanding on November 3, 2023, or the date immediately preceding the date any shares of Class A common stock are issued pursuant to the Recursion Agreement, whichever is less. We have customary registration rights with respect to any shares of Recursion's Class A common stock issued pursuant to the Recursion Agreement.

Acquisition of Highline Consulting, LLC

On January 4, 2022, we entered into a Unit Purchase Agreement with Highline, Highline Consulting Parent, LLC, and the unitholders of Highline, or collectively, the Sellers, pursuant to which we acquired all of the issued and outstanding equity interests in Highline, which transaction we refer to as the Highline Acquisition.

We acquired Highline for a purchase price of \$35.5 million, subject to customary cash and net working capital adjustments. The contingent payments have been, and will be, recorded pro rata over the two years following the closing within selling, general and administrative expense. In addition, the Sellers are entitled to

[Table of Contents](#)

receive contingent consideration from us in an aggregate amount of up to \$5.0 million, payable in a combination of cash and shares of our Class A common stock, contingent upon certain individual Sellers remaining employed by us as of the first and second anniversary of the closing. In addition, we established a retention bonus pool of RSUs with an aggregate value of \$4.0 million to be allocated among Highline employees retained by us. The retention bonus pool will be recorded as compensation expense over the requisite service period.

Factors Affecting Our Performance

We believe there are several important factors that have impacted and that we expect will impact our operating performance and results of operations. While each of these areas presents significant opportunities for us, they also pose significant risks and challenges that we must address. See “Risk Factors” for more information.

Research and Development and New Products

We expect to maintain high levels of investment in product innovation over the coming years as we continue to develop new laboratory assays, develop algorithms, and expand our Platform into new disease areas. These investments will include laboratory costs incurred in validating new or improving current assays, licensing of data sets to accelerate our efforts in new diseases, and development and validation costs for new Algos products. We invested \$83.2 million and \$90.3 million during the years ended December 31, 2022 and 2023, respectively, and \$20.9 million and \$24.3 million during the three months ended March 31, 2023 and 2024, respectively, in research and development. Our ability to develop new products, obtain regulatory approvals when required, launch them into the market, and drive adoption of these products by our customers will continue to play a key role in our results.

Customer Acquisition and Expansion

To grow our business requires both identifying new customers and expanding our partnerships with existing ones across each of our product lines. For Genomics, this entails our field salesforce developing relationships with individual physicians and hospital systems, demonstrating the power our Platform has in enabling them to provide personalized care to their patients. For Data, this entails our pharmaceutical business development teams demonstrating the power our Platform and database have in enabling drug discovery, development and clinical trial matching for our pharmaceutical partners. For AI Applications, this entails demonstrating the utility of these algorithms in a clinical setting. Since our inception, our offerings have been used by more than 7,000 physicians and we have worked with over 200 biotech companies, as well as 19 of the 20 largest public pharmaceutical companies based on 2023 revenue, albeit with many we are still at an early stage of adoption. Our financial performance relies heavily on our ability to add customers to our Platform and expand the relationships with our current customers through adoption of our new products.

Investments in Technology

Technology is at the core of everything we do. From receiving orders and ingesting data through our various provider integrations to delivering test results and access to our analytical platform, our Platform plays a key role in driving our business. We will continue to make significant investments in our Platform to continually improve our user experience and allow us to generate, ingest and structure data more efficiently as we expand our offerings. We invested \$79.1 million and \$95.2 million during the years ended December 31, 2022 and 2023, respectively, and \$22.9 million and \$27.1 million during the three months ended March 31, 2023 and 2024, respectively, in technology. We expect to maintain high levels of investment in our technology over the coming years as we continue to develop new features to support our current and future business needs. Our ability to execute on the development of such technology will continue to play a key factor in our results.

Payer Coverage and Reimbursement

Our financial performance relies heavily on our ability to secure reimbursement from payers and government health benefits programs. A substantial majority of the genomic testing we perform is clinical in nature. We typically receive reimbursement for these tests from commercial payers and from government health benefits programs, such as Medicare and Medicaid. The amount of payment we receive varies widely and depends on a variety of factors, including the payer, the assay run, and other characteristics about the patient. As of December 31, 2023, we had received payment on approximately 50% of our clinical oncology NGS tests across all payors performed from January 1, 2021 through December 31, 2022. We calculated this metric on a trailing basis based on payor adjudication timing. However, we continued to perform our NGS tests through December 31, 2023. For the years ended December 31, 2019, 2020, 2021, 2022 and 2023, our average reimbursement for NGS tests in oncology was approximately \$633, \$736, \$714, \$916 and \$1,452, respectively. We will continue to invest significantly in various efforts aimed at improving our average reimbursement, including performing clinical studies to generate evidence of clinical utility, seeking regulatory approval for our tests, and opening additional lab locations. Any changes to medical policies impacting how our tests are reimbursed could have a significant impact on our results.

COVID-19 Global Pandemic

The global outbreak of the novel coronavirus in December 2019, or COVID-19, negatively affected our business in 2020 as testing was delayed due to patients delaying visits and our pharmaceutical partners delaying some of their drug development efforts due to office interruptions or paused clinical trial recruitment. In July 2020, we launched our iD test (COVID-19 PCR test) and received the FDA's emergency use authorization for use in the detection of the COVID-19 and thereafter obtained additional emergency use authorizations for other similar tests, ran some COVID-19 testing as LDTs, and also licensed and used the Saliva Direct assay to perform other COVID-19 testing. This testing generated \$22.2 million of revenue for the year ended December 31, 2022 and \$2.6 million for the three months ended March 31, 2023. Demand for, and revenue from, our COVID-19 testing products decreased in 2022 due to the lower prevalence of COVID-19 from successful containment efforts and increased vaccination rates of a substantial majority of Americans, reduced testing needs of many of our clients, and the entrance of other testing providers in the market. Revenue from COVID-19 for the year ended December 31, 2023 and the three months ended March 31, 2024 was \$2.7 million and \$0 million, respectively, as we stopped offering COVID-19 PCR diagnostic tests in the first quarter of 2023, at which time we shifted resources from COVID-19 testing to other aspects of the business.

Components of Results of Operations

Revenue

We currently primarily derive our revenue from two product lines: (1) Genomics and (2) Data and services.

Genomics

Genomics primarily includes revenue from diagnostics, PCR profiling, and other anatomic and molecular pathology testing to healthcare providers, pharmaceutical companies, biotechnology companies, researchers, and other third parties.

Data and Services

Data and services primarily includes revenue from de-identified data generated through our Genomics product line to our pharmaceutical and biotechnology partners for use in their drug development efforts. These transactions consist of data licensing agreements, AI-enabled clinical trial matching, and analytical services. Our Data revenue is typically back-weighted towards the second half of the year based on the budgeting cycles of our customers. We currently report our AI Applications revenue within this line item as it is immaterial.

Cost and Operating Expenses

We incur costs to generate revenue for each of our two primary product lines. Cost of revenues for our Genomics product line is a higher percentage of the Genomics revenue than cost of revenues for Data and services is as a percentage of Data and services revenue. As revenue shifts between these product lines, total cost of revenue as a percentage of revenue will be impacted. Our total cost of revenues will also increase in the quarter in which this offering occurs due to stock-based compensation expenses of approximately \$18.0 million related to RSUs for which the service-based vesting condition was satisfied and for which the performance-based vesting condition will be satisfied in connection with this offering.

Cost of Revenues, Genomics

Cost of revenues for Genomics primarily includes personnel lab expenses, including salaries, bonuses, employee benefits and stock-based compensation expenses (which we refer to as “personnel costs”), and amortization of intangible assets, cost of laboratory supplies and consumables, laboratory rent expense, third-party administration fees associated with COVID-19 testing, depreciation of laboratory equipment and shipping costs. Costs associated with performing our tests are recorded as the tests are processed at the time of report delivery. We expect these costs will increase in absolute dollars as our Genomics revenue continues to grow.

Cost of Revenues, Data and Services

Cost of revenues for Data and services primarily includes data acquisition and royalty fees, and personnel costs related to delivery of our data services and platform, cloud costs, and certain allocated overhead expenses. Costs associated with performing data product services are recorded as incurred. We expect these costs will increase in absolute dollars as our Data and services revenue continues to grow. We currently report our AI Applications cost of revenue within this line item as it is immaterial.

Research and Development

Research and development expense primarily includes costs incurred to develop new assays and products, including validation costs, research and development and allocated lab personnel costs, salaries and benefits of the company’s scientific and laboratory research and development teams, amortization of intangible assets, inventory costs, overhead costs, contract services and other related costs. Research and development costs are expensed as incurred. We plan to continue to invest in new assay development and expansion into new disease areas. As a result, we expect that research and development expenses will increase in absolute dollars for the foreseeable future as we continue to invest to support these activities. Our research and development expense will increase in the quarter in which this offering occurs due to stock-based compensation expenses of approximately \$44.2 million related to RSUs for which the service-based vesting condition was satisfied and for which the performance-based vesting condition will be satisfied in connection with this offering.

Technology Research and Development

Technology research and development expense primarily includes personnel costs incurred related to the research and development of our technology platform and applications and the research and development of new products that we hope to bring to the market. Technology research and development costs are expensed as incurred. We plan to continue to invest in technology personnel to support our Platform and new algorithm development. We expect that technology research and development expenses will increase in absolute dollars for the foreseeable future as we continue to invest to support these activities. Our technology research and development expense will increase in the quarter in which this offering occurs due to stock-based compensation expenses of approximately \$52.6 million related to RSUs for which the service-based vesting condition was satisfied and for which the performance-based vesting condition will be satisfied in connection with this offering.

[Table of Contents](#)

Selling, General and Administrative

Our selling, general and administrative expense primarily includes personnel costs for our sales, executive, accounting and finance, legal and human resources functions, commissions, and other general corporate expenses, including software and tools, professional services, real estate costs, and travel costs.

We expect that our selling, general and administrative expenses will continue to increase in absolute dollars after this offering, primarily due to increased headcount and costs associated with operating as a public company, including expenses related to legal, accounting, regulatory, maintaining compliance with exchange listing and requirements of the SEC, director and officer insurance premiums and investor relations. These expenses, though expected to increase in absolute dollars, are expected to decrease modestly as a percentage of revenue in the long term, though they may fluctuate as a percentage from period to period due to the timing and extent of these expenses. Our selling, general and administrative expense will increase in the quarter in which this offering occurs due to stock-based compensation expenses of approximately \$364.1 million related to RSUs for which the service-based vesting condition was satisfied and for which the performance-based vesting condition will be satisfied in connection with this offering and we will continue to record stock-based compensation expenses associated with the vesting of RSUs in the quarter in which such vestings occur following this offering.

Interest Income

Interest income consists of interest earned on our cash and cash equivalents.

Interest Expense

Interest expense consists primarily of interest from our Amended Note and Term Loan Facility (each as defined in “Liquidity and Capital Resources” below), and finance leases. Interest expense related to our convertible debt will continue, but should decrease over time as the principal amount decreases.

Other Income (Expense), Net

Other income (expense), net consists of foreign currency exchange gains and losses, gains and losses on marketable equity securities, and any changes in fair value related to our warrant assets and liabilities. Foreign currency exchange gains and losses relate to transactions and asset and liability balances denominated in currencies other than the U.S. dollar. We expect our foreign currency gains and losses to continue to fluctuate in the future due to changes in foreign currency exchange rates. We hold shares of common stock of Recursion recorded within marketable equity securities. These shares are marked to market each reporting period. We issued a warrant to our customer AstraZeneca in conjunction with the signing of the MSA in November 2021. We have a warrant asset related to a November 2023 Commercialization and Reference Laboratory Agreement with Personalis, Inc. The fair value of the warrant assets and liabilities are measured each reporting period.

Provision for (Benefit from) Income Tax

Provision for (benefit from) income taxes consists of U.S. federal and state income taxes and income taxes in certain foreign jurisdictions in which we conduct business, as adjusted for non-deductible expenses, and changes in the valuation of our deferred tax assets and liabilities. We maintain a full valuation allowance on our U.S. federal and state deferred tax assets as we have concluded that it is more likely than not that the deferred tax assets will not be realized.

Earnings (Losses) from Equity Method Investments

Earnings (losses) from equity method investments consist of earnings from our joint venture entered during the third quarter of 2020.

Results of Operations

The following table sets forth the significant components of our results of operations for the periods presented.

	Year Ended		Three Months Ended	
	December 31, 2022	December 31, 2023	March 31, 2023	March 31, 2024
(in thousands)				
Net revenue				
Genomics	\$ 197,984	\$ 363,022	\$ 82,058	\$ 102,569
Data and services	122,684	168,800	33,566	43,251
Total net revenue	\$ 320,668	\$ 531,822	\$ 115,624	\$ 145,820
Cost and operating expenses				
Cost of revenues, genomics	150,255	189,165	45,280	52,835
Cost of revenues, data and services	40,227	56,482	11,393	15,288
Technology research and development	79,093	95,155	22,902	27,067
Research and development	83,158	90,343	20,863	24,340
Selling, general and administrative	233,377	296,760	69,047	79,564
Total cost and operating expenses	586,110	727,905	169,485	199,094
Loss from operations	\$ (265,442)	\$ (196,083)	\$ (53,861)	\$ (53,274)
Interest income	3,032	7,601	2,424	1,031
Interest expense	(21,894)	(46,869)	(9,191)	(13,238)
Other (expense) income, net	(4,846)	21,822	6,388	749
Loss before provision for income taxes	\$ (289,150)	\$ (213,529)	\$ (54,240)	\$ (64,732)
Provision for income taxes	(66)	(288)	(6)	(11)
Losses from equity method investments	(595)	(301)	(131)	—
Net Loss	\$ (289,811)	\$ (214,118)	\$ (54,377)	\$ (64,743)

Comparison of the Three Months Ended March 31, 2023 and 2024

Revenue

Total revenue was \$115.6 million for the three months ended March 31, 2023 compared to \$145.8 million for the three months ended March 31, 2024, an increase of \$30.2 million, or 26.1%. The increase in revenue is due to increased volume of clinical oncology tests performed in Genomics and increased data deliveries in our Data and Services product line.

Genomics

Genomics revenue increased \$20.5 million, or 25.0%, from \$82.1 million for the three months ended March 31, 2023, compared to \$102.6 million for the three months ended March 31, 2024. This increase is primarily due to the increase in the number of oncology NGS tests, which increased from approximately 48,400 tests for the three months ended March 31, 2023 to approximately 62,700 tests for the three months ended March 31, 2024.

Data and Services

Data and services revenue increased \$9.7 million, or 28.9%, from \$33.6 million for the three months ended March 31, 2023, compared to \$43.3 million for the three months ended March 31, 2024. This increase is driven primarily by approximately \$1.0 million in clinical trial services revenue, and approximately \$8.5 million from

increased demand for our Insights products. Across all Data and services products, the increase in revenue for the three months ended March 31, 2024 is primarily attributable to the adoption of our services by a new customer that began services in the fourth quarter of 2023, as well as continued growth from within our existing customer base.

Cost and Operating Expenses

Cost of Revenues

Cost of revenues was \$56.7 million for the three months ended March 31, 2023 compared to \$68.1 million for the three months ended March 31, 2024, an increase of \$11.5 million, or 20.2%. This increase was primarily due to an increase of \$5.3 million in personnel costs, \$2.7 million of material and service costs, and \$1.7 million in cloud expenses.

Cost of Revenues, Genomics

Cost of revenues, Genomics was \$45.3 million for the three months ended March 31, 2023, compared to \$52.8 million for the three months ended March 31, 2024, an increase of \$7.6 million, or 16.7%. This increase was primarily due to an increase of \$2.7 million in material and service costs and a \$3.7 million increase in personnel costs.

Cost of Revenues, Data and Services

Cost of revenues, Data and services was \$11.4 million for the three months ended March 31, 2023 compared to \$15.3 million for the three months ended March 31, 2024, an increase of \$3.9 million, or 34.2%. This increase was primarily due to an increase of \$1.6 million in personnel costs and an increase of \$1.2 million in cloud expenses.

Research and Development

Research and development expenses were \$20.9 million for the three months ended March 31, 2023 compared to \$24.3 million for the three months ended March 31, 2024, an increase of \$3.5 million, or 16.7%. This increase was primarily due to an increase of \$2.3 million in personnel-related costs for employees in our research and development group, as we increased our spend and headcount to support continued investment in our technology.

Technology Research and Development

Technology research and development expenses were \$22.9 million for the three months ended March 31, 2023 compared to \$27.1 million for the three months ended March 31, 2024, an increase of \$4.2 million, or 18.2%. This increase was primarily due to an increase in personnel-related costs associated with the investment in our cloud infrastructure and new lines of business.

Selling, General and Administrative

Selling, general and administrative expenses were \$69.0 million for the three months ended March 31, 2023 compared to \$79.6 million for the three months ended March 31, 2024, an increase of \$10.5 million, or 15.2%. This increase was primarily due to an increase of \$3.6 million in personnel-related costs, \$1.9 million in software and tools costs, and \$3.5 million in cloud storage costs.

Interest Income

Interest income was \$2.4 million for the three months ended March 31, 2023 compared to \$1.0 million for the three months ended March 31, 2024, a decrease of \$1.4 million, or 57.5%. This decrease was primarily due to lower cash on hand as of March 31, 2024 compared to March 31, 2023.

Interest Expense

Interest expense was \$9.2 million for the three months ended March 31, 2023 compared to \$13.2 million for the three months ended March 31, 2024, an increase of \$4.0 million, or 44.0%. This increase was primarily driven by compounding interest on our Amended Note.

Other Income, net

Other income, net was \$6.4 million for the three months ended March 31, 2023, compared to other income, net of \$0.7 million for the three months ended March 31, 2024, a decrease of \$5.6 million, or 88.3%. This decrease was primarily driven by a decrease of \$11.9 million in gains related to fair value adjustments related to our warrant liability and warrant asset, offset by an increase of \$6.2 million due to gains on marketable equity securities.

Earnings (Losses) from Equity Method Investments

We entered into a joint venture in September 2020, which had a loss of \$0.1 million and \$0 million for the three months ended March 31, 2023 and 2024, respectively. For the three months ended March 31, 2024, losses from equity method investments decreased by \$0.1 million, or 100%, compared to the three months ended March 31, 2023. Losses from equity method investments consisted of earnings from our joint venture into which we entered during the third quarter of 2020. All losses from the joint venture have thus been exhausted.

Comparison of the Years Ended December 31, 2022 and 2023

Revenue

Total revenue was \$320.7 million for the year ended December 31, 2022 compared to \$531.8 million for the year ended December 31, 2023, an increase of \$211.2 million, or 65.8%. Adjusted for the impact of COVID-19 PCR testing, revenue increased \$230.6 million, or 77.3%, from \$298.5 million for the year ended December 31, 2022, compared to \$529.1 million for the year ended December 31, 2023. The increase in revenue is due to increased volume and reimbursement of clinical oncology tests performed in Genomics and increased data deliveries in our Data and Services product line.

Genomics

Genomics revenue increased \$165.0 million, or 83.4%, from \$198.0 million for the year ended December 31, 2022, compared to \$363.0 million for the year ended December 31, 2023. Revenue from COVID-19 PCR testing decreased \$19.5 million. This decrease was offset by a \$184.5 million increase in Genomics revenue primarily due to an increase in the number of oncology NGS tests, which increased from approximately 148,000 tests for the year ended December 31, 2022 to approximately 218,700 tests for the year ended December 31, 2023. Beginning January 1, 2023, a new CPT code went into effect covering full transcriptome testing when performed separately from DNA testing. Historically, our xT assay was actually comprised of two separate and distinct procedures, DNA and RNA. Given there was not an applicable CPT code for RNA, we did not bill that test prior to January 1, 2023. In the year ended December 31, 2023, we experienced greater success than estimated in prior years when appealing initial denials for claims for our services. Also contributing to the increase was revenue recognized as a result from cash collections in excess of revenue recognized in prior years, which resulted in an increase of \$7.6 million to Genomics revenue. The increase in Genomics revenue was offset by an increase of \$10.0 million in a revenue reserve recorded for risks of future reversal of consideration associated with certain government payors.

Data and Services

Data and services increased \$46.1 million, or 37.6%, from \$122.7 million for the year ended December 31, 2022, compared to \$168.8 million for the year ended December 31, 2023. This increase is driven primarily by

[Table of Contents](#)

\$14.4 million in clinical trial services revenue, and approximately \$29.2 million from increased demand for our Insights products. Across all Data and services products, the increase in revenue in 2023 is primarily attributable to continued growth from within our existing customer base, as well continued adoption of our services by new customers that did not purchase services in 2022.

Cost and Operating Expenses

Cost of Revenues

Cost of revenues was \$190.5 million for the year ended December 31, 2022 compared to \$245.6 million for the year ended December 31, 2023, an increase of \$55.1 million, or 29.0%. Adjusted for the impact of COVID-19 PCR testing, cost of revenue increased \$72.7 million, or 42.4%, from \$171.5 million for the year ended December 31, 2022, compared to \$244.2 million for the year ended December 31, 2023. This increase was primarily due to an increase of \$25.1 million in personnel costs, \$24.8 million of material and service costs, and \$3.7 million in cloud expenses.

Cost of Revenues, Genomics

Cost of revenues, Genomics was \$150.3 million for the year ended December 31, 2022, compared to \$189.2 million for the year ended December 31, 2023, an increase of \$38.9 million, or 25.9%. Cost of revenues Genomics, adjusted for the impact of COVID-19 PCR testing, was \$131.3 million for the year ended December 31, 2022, compared to \$187.7 million for the year ended December 31, 2023, an increase of \$56.4 million, or 43.0%. This increase was primarily due to an increase of \$24.8 million in material and service costs and a \$14.6 million increase in personnel costs. Cost of revenues, Genomics has not increased in line with Genomics revenue due to the change in billing for xR tests. Although billable oncology NGS testing volume increased by approximately 122,800, xR tests were being performed and incurring cost in both years. Inclusive of xR, oncology NGS testing volume would have been approximately 148,000 for the year ended December 31, 2022 compared to 218,700 for the year ended December 31, 2023, an increase of approximately 70,700, which more closely aligns to the increase in Cost of revenues, Genomics.

Cost of Revenues, Data and Services

Cost of revenues, Data and services was \$40.2 million for the year ended December 31, 2022 compared to \$56.5 million for the year ended December 31, 2023, an increase of \$16.3 million, or 40.4%. This increase was primarily due to an increase of \$10.5 million in personnel costs and an increase of \$2.1 million in cloud expenses.

Research and Development

Research and development expenses were \$83.2 million for the year ended December 31, 2022 compared to \$90.3 million for the year ended December 31, 2023, an increase of \$7.2 million, or 8.6%. This increase was primarily due to an increase in personnel-related costs for employees in our research and development group, as we increased our spend and headcount to support continued investment in our technology.

Technology Research and Development

Technology research and development expenses were \$79.1 million for the year ended December 31, 2022 compared to \$95.2 million for the year ended December 31, 2023, an increase of \$16.1 million, or 20.3%. This increase was primarily due to an increase in personnel-related costs associated with the investment in our cloud infrastructure and new lines of business.

[Table of Contents](#)

Selling, General and Administrative

Selling, general and administrative expenses were \$233.4 million for the year ended December 31, 2022 compared to \$296.8 million for the year ended December 31, 2023, an increase of \$63.4 million, or 27.2%. This increase was primarily due to an increase of \$19.7 million in personnel-related costs, \$12.6 million in software and tools costs, \$8.8 million in cloud storage costs, \$8.6 million in settlement costs, and \$3.5 million due to change in fair value of contingent consideration.

Interest Income

Interest income was \$3.0 million for the year ended December 31, 2022 compared to \$7.6 million for the year ended December 31, 2023, an increase of \$4.6 million, or 150.7%. This increase was primarily due to the interest rate increases by the U.S. Federal Reserve.

Interest Expense

Interest expense was \$21.9 million for the year ended December 31, 2022 compared to \$46.9 million for the year ended December 31, 2023, an increase of \$25.0 million, or 114.1%. This increase was primarily driven by compounding interest on our Amended Note and the commencement of interest on the Term Loan Facility in September 2022.

Other (Expense) Income, net

Other (expense) income, net was (\$4.8) million for the year ended December 31, 2022, compared to other (expense) income, net of \$21.8 million for the year ended December 31, 2023, an increase in income of \$26.7 million, or 550.3%. This increase was primarily driven by an increase of \$12.1 million in gains related to fair value adjustments related to our warrant liability and warrant asset, and an increase of \$9.8 million due to unrealized gains on marketable equity securities.

Earnings (Losses) from Equity Method Investments

We entered into a joint venture in September 2020, which had a loss of \$0.6 million and \$0.3 million for the years ended December 31, 2022 and 2023, respectively. For the year ended December 31, 2023, losses from equity method investments decreased by an immaterial amount compared to the year ended December 31, 2022. Losses from equity method investments consist of earnings from our joint venture into which we entered during the third quarter of 2020.

[Table of Contents](#)**Quarterly Results of Operations**

The following table sets forth our unaudited quarterly consolidated statement of operations data for each of the eight quarters in the period ended March 31, 2024. The information for each of these quarters has been prepared in accordance with GAAP in the United States of America and on the same basis as our audited consolidated financial statements included elsewhere in this prospectus and, in the opinion of management, reflects all adjustments, which include only normal recurring adjustments, necessary for the fair presentation of our results of operations. This data should be read in conjunction with our audited financial statements and related notes included elsewhere in this prospectus. These quarterly operating results are not necessarily indicative of our operating results for the full year or any future period.

	Three Months Ended							
	June 30, 2022*	September 30, 2022*	December 31, 2022	March 31, 2023	June 30, 2023	September 30, 2023	December 31, 2023	March 31, 2024
Net revenue								
Genomics ¹	\$ 47,421	\$ 54,732	\$ 57,929	\$ 82,058	\$ 91,924	\$ 96,815	\$ 92,225	\$ 102,569
Data and services	26,297	30,840	42,697	33,566	40,493	39,242	55,499	43,251
Total net revenue	<u>\$ 73,718</u>	<u>\$ 85,572</u>	<u>\$ 100,626</u>	<u>\$ 115,624</u>	<u>\$ 132,417</u>	<u>\$ 136,057</u>	<u>\$ 147,724</u>	<u>\$ 145,820</u>
Cost and operating expenses								
Cost of revenues, genomics ¹	34,266	35,402	41,503	45,280	46,961	46,540	50,384	52,835
Cost of revenues, data and services	10,613	11,102	10,724	11,393	13,807	15,490	15,792	15,288
Loss from operations	<u>\$(66,557)</u>	<u>\$ (63,178)</u>	<u>\$ (58,615)</u>	<u>\$ (53,861)</u>	<u>\$ (45,138)</u>	<u>\$ (44,789)</u>	<u>\$ (52,295)</u>	<u>\$(53,274)</u>
Net Loss	<u>\$(73,691)</u>	<u>\$ (68,545)</u>	<u>\$ (66,285)</u>	<u>\$ (54,377)</u>	<u>\$ (55,832)</u>	<u>\$ (53,426)</u>	<u>\$ (50,483)</u>	<u>\$ (64,743)</u>
¹Revenue and cost of revenue from COVID-19 testing								
Genomics	3,618	4,891	4,674	2,638	73	—	—	—
Cost of revenue, genomics	3,962	2,813	2,169	1,352	54	—	—	—

* Based on a change in estimate, \$3.1 million of Genomics revenue reflected in the three months ended September 30, 2022 was reclassified to the three months ended June 30, 2022.

Quarterly Revenue Trends

Revenue from COVID-19 testing has impacted the Genomics revenue line as illustrated in the table above.

Beginning in the second quarter of 2022, we experienced a significant uptick in reimbursement rates from Medicare, which contributed to increased Genomics revenue relative to Cost of revenue, Genomics during the second half of the year.

Beginning January 1, 2023, a new CPT code went into effect covering full transcriptome testing when performed separately from DNA testing. Historically, our xT assay was actually comprised of two separate and distinct procedures, DNA and RNA. Given there was not an applicable CPT code for RNA, we did not bill that test. With the introduction of the new code, we now have two separate assays, one analyzing DNA – xT and one analyzing RNA – xR that are ordered and billed for separately, which has increased Genomics revenue relative to Cost of revenue, Genomics in 2023.

Quarterly Costs and Operating Expense Trends

Costs associated with COVID-19 testing has impacted the Cost of revenues, genomics line as illustrated in the table above.

[Table of Contents](#)

Cost of revenues, data and services has decreased relative to the increase in Data and services revenue due to continued growth of Insights products, which have a higher margin of approximately 76%, compared to Trials products, which had a margin of approximately 42%, for the year ended December 31, 2023. Insights products had a margin of approximately 73%, compared to Trials products, which had a margin of approximately 42% for the three months ended March 31, 2024.

Non-GAAP Financial Measure

To supplement our consolidated financial statements prepared and presented in accordance with accounting principles generally accepted in the United States of America, or GAAP, we use adjusted EBITDA, as described below, to facilitate analysis of our financial and business trends and for internal planning and forecasting purposes.

EBITDA is defined as earnings before interest, taxes, depreciation and amortization. We define adjusted EBITDA as net income (loss), adjusted to exclude (i) interest income, (ii) interest expense, (iii) depreciation and amortization, (iv) provision for (benefit from) income taxes, (v) losses on equity method investments, (vi) change in fair value of warrant liabilities, contingent consideration and warrant asset, (vii) acquisition-related expenses and (viii) non-capitalizable expenses related to the public listing of our Class A common stock and the settlement of certain historical and potential future disputes. We use adjusted EBITDA in conjunction with net income or loss, its corresponding GAAP measure, as a performance measure to assess our operating performance and operating leverage in our business. The above items are excluded from our adjusted EBITDA measure because these items are non-cash in nature, or because the amount and timing of these items is unpredictable, or they are not driven by core results of operations, thereby rendering comparisons with prior periods and competitors less meaningful. We believe adjusted EBITDA provides useful information to investors and others in understanding and evaluating our results of operations, as well as provides a useful measure for period-to-period comparisons of our business performance. Moreover, we have included adjusted EBITDA in this prospectus because it is a key measurement used by our management internally to make operating decisions, including those related to analyzing operating expenses, evaluating performance, and performing strategic planning and annual budgeting.

Adjusted EBITDA has limitations as a financial measure, should be considered as supplemental in nature, and is not meant as a substitute for, or superior to, the related financial information prepared in accordance with GAAP. Some of these limitations are that adjusted EBITDA:

- does not reflect interest income which increases cash available to us;
- excludes depreciation and amortization expense, and although these are non-cash expenses, the assets being depreciated may have to be replaced in the future, increasing our cash requirements;
- does not reflect provision for or benefit from income taxes that reduces cash available to us; and
- excludes change in fair value of warrant liabilities, contingent consideration and warrant asset.

Because of these limitations, we consider, and you should consider, adjusted EBITDA alongside other financial performance measures, including net loss and our other GAAP results. A reconciliation of our adjusted EBITDA to net loss, the most directly comparable financial measure stated in accordance with GAAP, is provided below. Investors are encouraged to review the related GAAP financial measures and the reconciliation of the non-GAAP financial measure to their most directly comparable GAAP financial measure.

The following table summarizes our adjusted EBITDA, along with net loss, the most directly comparable GAAP measure, for each period presented below:

	June 30, 2022	September 30, 2022	December 31, 2022	March 31, 2023	June 30, 2023	September 30, 2023	December 31, 2023	March 31, 2024
Net loss	\$(73,691)	\$(68,545)	\$(66,285)	\$(54,377)	\$(55,832)	\$(53,426)	\$(50,483)	\$(64,743)
Adjustments:								
Interest income	(147)	(668)	(2,143)	(2,424)	(1,957)	(1,483)	(1,737)	(1,031)
Interest expense	3,855	4,526	9,223	9,191	11,712	12,342	13,624	13,238
Depreciation	3,891	4,526	4,780	5,060	5,194	5,404	5,621	6,269
Amortization	3,249	3,457	3,469	2,888	3,043	2,920	2,919	2,920

Table of Contents

	June 30, 2022	September 30, 2022	December 31, 2022	March 31, 2023	June 30, 2023	September 30, 2023	December 31, 2023	March 31, 2024
Provision for income taxes	—	—	66	6	3	65	214	11
Losses on equity method investments	165	134	131	131	170	—	—	—
Change in fair value of warrant liabilities	3,200	1,200	500	(6,400)	700	(2,300)	—	800
Gain on marketable equity securities	—	—	—	—	—	—	(9,807)	(6,246)
Change in fair value of contingent consideration	(1,612)	(35)	180	—	—	(400)	—	194
Change in fair value of warrant asset	—	—	—	—	—	—	(4,100)	4,700
Settlement costs ⁽¹⁾	—	—	—	—	—	—	8,625	—
Acquisition related expenses ⁽²⁾	—	475	—	—	—	672	—	(38)
Adjusted EBITDA (non-GAAP)	<u>\$ (61,090)</u>	<u>\$ (54,930)</u>	<u>\$ (50,079)</u>	<u>\$ (45,925)</u>	<u>\$ (36,967)</u>	<u>\$ (36,206)</u>	<u>\$ (35,124)</u>	<u>\$ (43,926)</u>

⁽¹⁾ Settlement costs for the year ended December 31, 2023 include \$0.2 million paid to settle a 2019 payment dispute and \$8.5 million in costs accrued related to potential future settlements.

⁽²⁾ Acquisition related expenses consist of legal and diligence costs incurred for the acquisitions of Highline and Arteries during the year ended December 31, 2022 and Mpirik and SEngine during the year ended December 31, 2023, as well as fair value impacts of indemnity-related equity for the three months ended March 31, 2024.

Liquidity and Capital Resources

We have incurred significant losses and negative cash flows from operations since our inception, and as of March 31, 2024, we had an accumulated deficit of \$1.5 billion.

We expect to incur additional operating losses in the near future and our operating expenses will increase as we continue to invest and develop new offerings, expand our sales organization, and increase our marketing efforts to drive market adoption of our tests. As demand for our tests continues to increase from physicians and biopharmaceutical companies, we anticipate that our capital expenditure requirements could also increase if we require additional laboratory capacity.

We have funded our operations to date principally from the sale of stock, convertible debt, term debt, and sales of our products. As of March 31, 2024, we had cash, cash equivalents and restricted cash of \$80.8 million. On January 4, 2022, we funded through cash on hand, the \$35.5 million acquisition of Highline Consulting, LLC (which purchase price was subject to customary cash and net working capital adjustments). From April 18 to April 22, 2022, we sold an aggregate of 1,614,114 shares of our Series G-3 convertible preferred stock at a price per share of \$57.3069 for an aggregate purchase price of approximately \$92.5 million in private placements to accredited investors. In August 2022, the Company entered into the GSK Agreement, under which GSK has committed to spend a minimum of \$180 million, of which \$70 million was paid upon execution. In October 2023, we sold an aggregate of 785,245 shares of our Series G-4 preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$45.0 million in a private placement to accredited investors. In April 2024, we sold an aggregate of 3,489,981 shares of our Series G-5 convertible preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$200.0 million in a private placement to an accredited investor.

Based on our current business plan, we believe our current cash and cash equivalents, marketable equity securities and anticipated cash flows from operations, inclusive of the approximately \$200.0 million proceeds from the sale and issuance of our series G-5 convertible preferred stock in April 2024, will be sufficient to meet our anticipated cash requirements for more than twelve months from the date of this prospectus. We plan to raise additional capital to expand our business, to pursue strategic investments, to take advantage of financing

[Table of Contents](#)

opportunities or for other reasons. As we grow our revenue, our accounts receivable and inventory balances will increase. Any increase in accounts receivable and inventory may not be completely offset by increases in accounts payable and accrued expenses, which could result in greater working capital requirements.

If our available cash and cash equivalents and anticipated cash flows from operations are insufficient to satisfy our liquidity requirements because of lower demand for our products as a result of lower than currently expected rates of reimbursement from our customers or other risks described elsewhere in this prospectus, we will seek to sell additional common or preferred equity or convertible debt securities, enter into a credit facility or another form of third-party funding or seek other debt financing. The sale of equity and convertible debt securities, or exercise of warrants may result in dilution to our stockholders and, in the case of preferred equity securities or convertible debt, those securities could provide for rights, preferences or privileges senior to those of our common stock. The terms of debt securities issued or borrowings pursuant to a credit agreement could impose significant restrictions on our operations. If we raise funds through collaborations and licensing arrangements, we might be required to relinquish significant rights to our platform technologies or products or grant licenses on terms that are not favorable to us. Additional capital may not be available to us on reasonable terms, or at all. The failure to obtain any required future financing may require us to reduce or eliminate certain existing operations.

Series G-3 Financing

On April 18, 2022, we entered into a stock purchase agreement with certain of our existing investors, including Mr. Lefkofsky, pursuant to which we issued and sold 1,614,114 shares of our Series G-3 preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$92.5 million, or the Series G-3 Financing. The terms of our Series G-3 preferred stock provide that in the event of an initial public offering of our common stock, occurring after June 30, 2023, each share of Series G-3 preferred stock would be converted into a number of shares of our Class A common stock equal to (i) \$57.3069 per share, plus any accrued and unpaid dividends on such share divided by (ii) the lesser of (a) \$51.5762 and (b) 85% of the public offering price in this offering. Based on an assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, all of the shares of Series G-3 preferred stock will convert into an aggregate of 3,236,829 shares of our Class A common stock in connection with this offering. Each \$1.00 increase in the assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would decrease the number of shares of Class A common stock into which all shares of Series G-3 preferred stock would convert in connection with this offering by approximately 87,482 shares. Each \$1.00 decrease in the assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus would increase the number of shares of Class A common stock into which all shares of Series G-3 preferred stock would convert in connection with this offering by approximately 92,480 shares. In addition, in connection with the Series G-3 Financing, we agreed to issue to a stockholder a contingent payment of up to \$9.0 million in shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, which payment may be made in cash or shares of Class A common stock, upon mutual agreement of us and the stockholder.

Series G-4 Financing

On October 11, 2023, we entered into a stock purchase agreement with certain investors, pursuant to which we issued and sold 785,245 shares of our Series G-4 preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$45.0 million, or the Series G-4 Financing. As part of the Series G-4 Financing, we may sell up to an additional 2,704,736 shares of Series G-4 preferred stock through January 9, 2024. The terms of our Series G-4 preferred stock provide that in the event of an initial public offering of our Class A common stock, each share of Series G-4 preferred stock would be converted into a number of shares of our Class A common stock equal to (i) \$57.3069 per share, plus any accrued and unpaid dividends on such share divided by (ii) the lesser of (a) \$51.5762 and (b) 85% of the public offering price in this offering. Based on an assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set

[Table of Contents](#)

forth on the cover page of this prospectus, all of the shares of Series G-4 preferred stock will convert into an aggregate of 1,490,562 shares of our Class A common stock in connection with this offering. Each \$1.00 increase in the assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would decrease the number of shares of Class A common stock into which all shares of Series G-4 preferred stock would convert in connection with this offering by approximately 40,286 shares. Each \$1.00 decrease in the assumed public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase the number of shares of Class A common stock into which all shares of Series G-4 preferred stock would convert in connection with this offering by approximately 42,587 shares.

In addition, we agreed to pay to each purchaser in the Series G-4 Financing an amount equal to 5% of the per share price for each share of Series G-4 preferred stock purchased by such purchaser, or the G-4 Special Payment, in the event that following this offering, the average of the last trading price on each trading day during the ten day trading period beginning on the first day of trading of our Class A common stock is less than 110% of the price per share of Class A common stock sold in this offering. If applicable, the G-4 Special Payment will be equal to approximately \$2.3 million in the aggregate and will be payable in cash to the purchasers within 30 days following this offering.

Series G-5 Financing

On April 30, 2024, we entered into a stock purchase agreement with an investor affiliated with SoftBank Group Corporation, or SoftBank, pursuant to which we issued and sold 3,489,981 shares of our Series G-5 convertible preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$200.0 million. The terms of our Series G-5 convertible preferred stock provide that in the event of an initial public offering of our Class A common stock, each share of Series G-5 convertible preferred stock would be converted into a number of shares of our Class A common stock equal to (i) \$57.3069 per share, plus any accrued and unpaid dividends on such share, divided by (ii) the lesser of (a) \$51.5762 and (b) 90% of the public offering price in this offering. Based on an assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, all of the shares of Series G-5 convertible preferred stock will convert into an aggregate of 6,172,839 shares of our Class A common stock in connection with this offering. Each \$1.00 increase in the assumed initial public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would decrease the number of shares of Class A common stock into which all shares of Series G-5 convertible preferred stock would convert in connection with this offering by approximately 166,833 shares. Each \$1.00 decrease in the assumed public offering price of \$36.00 per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase the number of shares of Class A common stock into which all shares of Series G-5 preferred stock would convert in connection with this offering by approximately 176,367 shares.

Term Loan Facility

On September 22, 2022, we entered into a Credit Agreement with Ares Capital Corporation, or Ares, for a senior secured loan, or Term Loan Facility, in the amount of \$175 million, less original issue discount of \$4.4 million and deferred financing fees of \$2.6 million. On April 25, 2023, we entered into an amendment to the Credit Agreement, which increased the aggregate principal amount of the Term Loan Facility by an additional \$50 million, less original issue discount of \$1.3 million, and increased the interest rate on the Term Loan Facility by 25 basis points. On October 11, 2023, we entered into a second amendment to the Credit Agreement, which increased the aggregate principal amount of the Term Loan Facility by an additional \$35 million, less original issue discount of \$0.9 million. Terms of the second amendment are consistent with those of the first amendment. Interest on the Term Loan Facility is payable as follows: (i) for any interest period for which we elect to pay interest in cash, the cash interest rate for Base Rate and Term SOFR borrowings will be the Base Rate plus 6.25% and Term SOFR plus 7.25%, respectively, and (ii) for any interest period for which we elect to pay interest in kind, the cash interest rate for Base Rate and Term SOFR borrowings will be the Base Rate plus 4% and Term SOFR plus 5%,

[Table of Contents](#)

respectively, and the paid-in-kind interest rate will be 3.25%. The proceeds of the Term Loan Facility will be used for working capital and general corporate purposes, including to finance growth initiatives and to pay for operating expenses. The Term Loan Facility is due at maturity on September 22, 2027 and is subject to quarterly interest payments. All obligations under the Term Loan Facility are guaranteed by us and secured by substantially all of our assets. We have the right at any time and from time to time to prepay any Term Loan Facility in whole or in part.

The Term Loan Facility contains customary representations and warranties, financial and other covenants, and events of default, including but not limited to, limitations on earnout, milestone, or deferred purchase obligations, dividends on preferred stock and stock repurchases, cash investments, and acquisitions. We are required to maintain a minimum liquidity of at least \$25 million and maintain specified amounts of consolidated revenues for the trailing twelve-month period ending on the last day of each fiscal quarter. Minimum consolidated revenues increase each quarter. For the years ended December 31, 2024 and 2025, we are required to generate consolidated revenues of \$459.1 million and \$594.1 million, respectively. We were in compliance with the covenants of the Credit Agreement as of March 31, 2024.

Convertible Promissory Note

On June 22, 2020, in connection with our entry into an agreement for use of Google LLC's, or Google's, Google Cloud Platform, we issued Google a convertible promissory note, or the Note, in the original principal amount of \$330.0 million. On November 19, 2020, in connection with our Series G-2 convertible preferred stock financing, we issued Google \$80 million of our Series G-2 preferred stock, at a 10% discount to the purchase price per share in such financing, in partial satisfaction of the outstanding principal amount under the Note, and we amended and restated the terms of the Note.

The amended and restated Note, or the Amended Note, has a principal amount of \$250.0 million, and bears interest at the rate set forth therein. The principal amount is automatically reduced each year based on a formula taking into account the aggregate value of the Google Cloud Platform services used by us. We account for the principal reductions as an offset to our cloud and compute spend within selling, general and administrative expense in our Consolidated Statements of Operations and Comprehensive Loss. The outstanding principal and accrued interest under the Amended Note, or the Outstanding Amount, is due and payable on the earlier of (1) March 22, 2026, which is the maturity date of the Amended Note, (2) upon the occurrence and during the continuance of an event of default, and (3) upon the occurrence of an acceleration event, which includes any termination by us of our Google Cloud Platform agreement. We generally may not prepay the Outstanding Amount, except that we may, at our option, prepay the Outstanding Amount in an amount such that the principal amount remaining outstanding after such repayment is \$150.0 million.

If the Amended Note is outstanding at the maturity date, Google may, at its option, convert the then outstanding principal amount and interest accrued under the Amended Note into a number of shares of our Class A common stock equal to the quotient obtained by dividing (1) the Outstanding Amount on the maturity date, by (2) the average of the last trading price on each trading day during the twenty day period ending immediately prior to the maturity date.

Cash Flows

The following table summarizes our cash flows for the periods presented:

	<u>Year Ended December 31,</u>		<u>Three Months</u>	
	<u>2022</u>	<u>2023</u>	<u>2023</u>	<u>2024</u>
			<u>(unaudited)</u>	
			(in thousands)	
Net cash used in operating activities	\$ (168,204)	\$ (214,339)	\$ (66,262)	\$ (101,378)
Net cash (used in) provided by investing activities	\$ (57,939)	\$ (40,313)	\$ (9,095)	\$ 16,990
Net cash provided by (used in) financing activities	\$ 251,391	\$ 117,547	\$ (3,785)	\$ (1,378)

[Table of Contents](#)

Operating Activities

Cash used in operating activities during the three months ended March 31, 2023 was \$66.3 million, which resulted from a net loss of \$54.4 million and a net change in our operating assets and liabilities of \$25.7 million, offset by non-cash charges of \$13.8 million. Non-cash charges primarily consisted of \$7.9 million of depreciation and amortization, \$7.4 million due to impairment of intangible assets, \$1.7 million of non-cash operating lease costs, amortization of the warrant contract asset of \$1.7 million, and a decrease in the fair value of the warrant liability of \$6.4 million. The net change in our operating assets and liabilities was primarily the result of a \$9.7 million increase in accounts receivable and a \$3.8 million decrease in deferred revenue.

Cash used in operating activities during the three months ended March 31, 2024 was \$101.4 million, which resulted from a net loss of \$64.7 million and a net change in our operating assets and liabilities of \$51.1 million, offset by non-cash charges of \$14.5 million. Non-cash charges primarily consisted of \$9.2 million of depreciation and amortization, \$1.7 million of non-cash operating lease costs, amortization of the warrant contract asset of \$1.2 million, \$6.2 million due to gain on marketable equity securities, and a decrease in the fair value of the warrant asset of \$4.7 million. The net change in our operating assets and liabilities was primarily the result of a \$13.6 million increase in accounts receivable and a \$16.0 million decrease in deferred revenue.

Cash used in operating activities during the year ended December 31, 2022 was \$168.2 million, which resulted from a net loss of \$289.8 million, offset by a net change in our operating assets and liabilities of \$71.8 million and non-cash charges of \$49.8 million. Non-cash charges primarily consisted of \$30.0 million of depreciation and amortization, \$6.4 million of non-cash operating lease costs, amortization of the warrant asset of \$4.7 million, an increase in the fair value of the warrant liability of \$4.7 million, and a decrease in the fair value of contingent consideration of \$3.7 million. The net change in our operating assets and liabilities was primarily the result of a \$67.6 million increase in deferred revenue.

Cash used in operating activities during the year ended December 31, 2023 was \$214.3 million, which resulted from a net loss of \$214.1 million and a net change in our operating assets and liabilities of \$37.8 million, offset by non-cash charges of \$37.6 million. Non-cash charges primarily consisted of \$33.0 million of depreciation and amortization, \$6.8 million of non-cash operating lease costs, \$7.4 million due to impairment of intangible assets, amortization of the warrant contract asset of \$5.2 million, \$9.8 million due to unrealized gains on marketable equity securities, and a decrease in the fair value of the warrant liability of \$8.0 million. The net change in our operating assets and liabilities was primarily the result of a \$26.4 million decrease in deferred revenue.

Investing Activities

Cash used in investing activities during the three months ended March 31, 2023 was \$9.1 million, which resulted from \$2.9 million related to the cash paid for business combinations, and purchases of property and equipment of \$6.2 million.

Cash provided by investing activities during the three months ended March 31, 2024 was \$17.0 million, which was the result of proceeds from sale of marketable equity securities of \$23.1 million, offset by purchases of property and equipment of \$6.1 million, which related primarily to the expansion of our Chicago office for additional laboratory space.

Cash used in investing activities during the year ended December 31, 2022 was \$57.9 million, which resulted from \$35.0 million related to the Highline Acquisition, and purchases of property and equipment of \$18.4 million.

Cash used in investing activities during the year ended December 31, 2023 was \$40.3 million, which was the result of purchases of property and equipment of \$34.6 million, which related primarily to the expansion of the Chicago office for additional lab space, and \$5.7 million related to cash paid for business combinations.

[Table of Contents](#)

Financing Activities

Cash used in financing activities during the three months ended March 31, 2023 was \$3.8 million, which was primarily due to a \$3.6 million in purchase of treasury stock.

Cash used in financing activities during the three months ended March 31, 2024 was \$1.4 million, which was primarily due to \$0.8 million in payment for an indemnity holdback related to an acquisition and \$0.6 million due to payments for deferred offering costs.

Cash provided by financing activities during the year ended December 31, 2022 was \$251.4 million which was primarily due to net proceeds of \$170.6 million from the Term Loan Facility with Ares and \$92.2 million in net proceeds from the issuance of convertible preferred stock, offset by \$5.6 million of dividend payments, \$2.9 million in payments for deferred offering costs, and \$2.6 million in payments for deferred financing fees.

Cash provided by financing activities during the year ended December 31, 2023 was \$117.5 million, which was primarily due to net proceeds of \$82.9 million from the Term Loan Facility with Ares and \$44.9 million in net proceeds from the issuance of convertible preferred stock, offset by \$5.6 million of dividend payments and \$3.6 million in purchase of treasury stock.

Contractual Obligations and Commitments

Our contractual commitments will have an impact on our future liquidity. These commitments include future payments on non-cancellable leases, purchase obligations related to data licenses and cloud computing services, and future payments on our convertible promissory note. Where applicable, we calculate our obligation based on termination fees that can be paid to exit the contract. The data license agreements include committed payments for access to certain data and additional payments contingent on the commercialization of such data.

The following table summarizes our contractually committed future obligations as of December 31, 2023 (in thousands):

	Total	Less than 1 year	1-3 years	3-5 years	More than 5 years
Operating lease obligations	47,981	6,774	16,705	15,770	8,732
Purchase obligations	113,497	42,080	67,588	3,829	—
Term Loan Facility	263,587	—	—	263,587	—
Convertible Promissory Note*	248,445	—	248,445	—	—
Total	673,510	48,854	332,738	283,186	8,732

* Includes \$55,321 of interest payable.

Off-Balance Sheet Arrangements

We did not have during the period presented, and we do not currently have, any off-balance sheet financing arrangements or any relationships with unconsolidated entities or financial partnerships, including entities sometimes referred to as structured finance or special purpose entities, that were established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

Critical Accounting Policies and Estimates

We have prepared our consolidated financial statements in accordance with generally accepted accounting principles in the United States, or GAAP. Our preparation of these consolidated financial statements requires us to make estimates, assumptions and judgments that affect the reported amounts of assets, liabilities, expenses and related disclosures at the date of the consolidated financial statements, as well as revenue and expenses recorded

[Table of Contents](#)

during the reporting periods. We evaluate our estimates and judgments on an ongoing basis. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results could therefore differ materially from these estimates under different assumptions or conditions.

While our significant accounting policies are described in more detail in Note 2 to our audited consolidated financial statements included elsewhere in this prospectus, we believe the following accounting policies to be critical to the judgments and estimates used in the preparation of our financial statements.

Revenue Recognition

We derive Genomics revenue from selling lab services to physicians, academic research institutions, and other parties. We also derive Data and services revenue from the commercialization of data generated in the lab through the licensing of de-identified datasets to third parties and from matching patients to clinical trials enrolled in its clinical trial network and related services. The majority of our revenue is generated in North America.

We account for our revenue in accordance with ASC Topic 606, *Revenue From Contracts With Customers*. We commence revenue recognition when control of these products is transferred to customers in an amount that reflects the consideration we expect to be entitled to in exchange for such products. This principle is achieved by applying the following five-step approach: (i) we account for a contract when it has approval and commitment from both parties, (ii) the rights of the parties are identified, (iii) payment terms are identified, (iv) the contract has commercial substance and (v) collectability of consideration is probable. Revenue and any contract assets are not recognized until such time that the required conditions are met.

Genomics

For direct bill orders billed to research institutions, pharmaceutical companies, or other third parties, we determine the transaction prices based on established contractual rates with the customer, net of any applicable discounts. Payment is typically due between 30 and 60 days following the date of invoice.

For clinical orders billed to Medicare, Medicaid, and commercial insurance, we determine the transaction price by reducing the standard charge by the estimated effects of any variable consideration, such as contractual allowance and implicit price concessions. We estimate contractual allowances and implicit price concessions based on historical collections in relation to established rates, as well as known current or anticipated reimbursement trends not reflected in the historical data. Estimates are inclusive of the consideration to which we will be entitled at an amount for which it is probable that a reversal of cumulative consideration will not occur. We monitor the estimated amount to be collected at each reporting period based on actual cash collections in order to assess whether a revision to the estimate is required. Payment is typically due after the claim has been processed by the payor, generally 30-120 days from date of service. While management believes that the estimates are accurate, actual results could differ, and the potential impact on the financial statements could be significant.

Stock-Based Compensation

We recognize compensation expense for equity awards based on the grant-date fair value on a straight-line basis over the remaining requisite service period for the award. For those awards with a market condition, we utilize a Monte Carlo simulation model to estimate the fair value of the restricted stock units.

We issue restricted stock units to certain of our employees. The general terms of the restricted stock units require both a service and performance condition to be satisfied prior to vesting. The service condition is satisfied upon the participant's completion of a required period of continuous service from the vesting start date. The performance condition will be satisfied upon a liquidity event, which would result in recognition of stock-based compensation expense for the quarter in which this offering is consummated. As of March 31, 2024 there was \$555.0 million of unrecognized stock-based compensation expense.

Common Stock Valuations

Prior to this offering our common stock was not publicly traded. As such, we were required to estimate the fair value of our common stock. Our board of directors considered numerous objective and subjective factors to determine the fair value of our common stock as awards were approved, including utilizing third-party valuations to assist with the determination of the estimated fair-market value and common stock price. Given the absence of a public trading market for our common stock, the valuations of common stock were determined in accordance with the guidance provided by the American Institute of Certified Public Accountants Practice Aid, Valuation of Privately-Held-Company Equity Securities Issued as Compensation, and our board of directors exercised reasonable judgment and considered numerous and subjective factors to determine the best estimate of fair value of our common stock, including the following factors:

- contemporaneous valuations performed by independent third-party specialists;
- the prices, rights, preferences and privileges of our redeemable convertible preferred stock relative to those of our common stock;
- the prices of common or preferred stock sold to third-party investors by us and in secondary transactions or repurchased by us in arms-length transactions;
- lack of marketability of our common stock;
- our actual operating and financial performance;
- current business conditions and projections;
- our stage of development;
- likelihood of achieving a liquidity event, such as an initial public offering or a merger or acquisition of our company given prevailing market conditions;
- the market performance of comparable publicly traded companies; and
- the U.S. and global capital market conditions.

In valuing our common stock, management determined the equity value of our business using various valuation methods including combinations of income and market approaches. The income approach estimates value based on the expectation of future cash flows that a company will generate. These future cash flows were discounted to their present values using a discount rate derived from an analysis of the cost of capital of comparable publicly traded companies in our industry or similar business operations as of each valuation date and adjusted to reflect the risks inherent in our cash flows.

For each valuation, the equity value determined by the income and market approaches was then allocated to the common stock. We performed this allocation using the option pricing method, or OPM, which treats the securities comprising our capital structure as call options with exercise prices based on the liquidation preferences of our various series of preferred stock and the exercise prices of our options and warrants. Following the formal approval by our board of directors of a plan for our company to pursue an initial public offering, from the second quarter of 2021 through the first quarter of 2022, we used a probability-weighted expected return method, or PWERM, which involves the estimation of multiple future potential outcomes, and estimates of the probability of each potential outcome. From the second quarter of 2022 through the second quarter of 2023, in response to volatile market conditions and the resulting uncertainty around the timing of a liquidity event, we changed our valuation methodology back to an OPM. Beginning in the third quarter of 2023, as a result of improving market conditions, we switched back to a PWERM. The per share value of our common stock is ultimately based upon probability-weighted per share values resulting from the various future scenarios, which include an initial public offering, merger or sale or continued operation as a private company.

Application of these approaches involves the use of estimates, judgments and assumptions that are highly complex and subjective, such as those regarding our expected future revenue, expenses, and future cash flows, discount rates, market multiples, the selection of comparable companies, and the probability of possible future

[Table of Contents](#)

events. Changes in any or all of these estimates and assumptions or the relationships between those assumptions affect our valuations as of each valuation date and may have a material impact on the valuation of our common stock.

For valuations after the completion of this offering, management will determine the fair value of each share of underlying common stock based on the closing price of our common stock as reported on the date of grant. Future expense amounts for any particular period could be affected by changes in our assumptions or market conditions.

In connection with this offering, we expect to incur approximately \$478.9 million of stock-based compensation expense related to RSUs granted through March 31, 2024, for which the service-based vesting condition will be satisfied as of June 14, 2024 and for which the performance-based vesting condition will be satisfied in connection with this offering. In addition, based on RSUs outstanding as of March 31, 2024, we expect to recognize approximately \$46.0 million of additional stock-based compensation expense related to these awards during the next twelve months.

Quantitative and Qualitative Disclosures About Market Risk

We are exposed to market risk in the ordinary course of our business. Market risk represents the risk of loss that may impact our financial position due to adverse changes in financial market prices and rates. Our market risk exposure is primarily the result of fluctuations in interest rates and foreign currency exchange rates.

Interest Rate Risk

We are exposed to market risk for changes in interest rates related primarily to our cash, cash equivalents and restricted cash, and our indebtedness. As of March 31, 2024, we had cash, cash equivalents and restricted cash of \$80.8 million held primarily in cash deposits and money market funds.

Foreign Currency Risk

The majority of our revenue is generated in the United States. Through March 31, 2024, we have generated an insignificant amount of revenues denominated in foreign currencies. As we expand our presence in the international market, our results of operations and cash flows are expected to increasingly be subject to fluctuations due to changes in foreign currency exchange rates and may be adversely affected in the future due to these related changes. As of March 31, 2024 the effect of a hypothetical 10% change in foreign currency exchange rates would not be material to our financial condition or results of operations. To date, we have not entered into any hedging arrangements with respect to foreign currency risk. As our international operations grow, we will continue to reassess our approach to manage our risk relating to fluctuations in currency rates.

Inflation Risk

We are also exposed to inflation risk and inflationary factors, such as increases in raw material and overhead costs, which could impair our operating results. Although we do not believe that inflation has had a material impact on our financial position or results of operations to date, a high rate of inflation in the future may have an adverse effect on our ability to maintain current levels of gross margin and operating expenses as a percentage of revenue.

JOBS Act Accounting Election

We are an “emerging growth company” as defined in the JOBS Act. Under the JOBS Act, emerging growth companies can delay adopting new or revised accounting standards until such time as those standards apply to private companies. We have elected to use this exemption from new or revised accounting standards and, therefore, we will not be subject to the same new or revised accounting standards as other public companies that have not made this election.

Recent Accounting Pronouncements

See the section titled “Summary of Significant Accounting Policies” in Note 2 to our consolidated financial statements included elsewhere in this prospectus for more information.

BUSINESS

Business Overview

We endeavor to unlock the true power of precision medicine by creating Intelligent Diagnostics through the practical application of artificial intelligence, or AI, in healthcare. Intelligent Diagnostics use AI, including generative AI, to make laboratory tests more accurate, tailored, and personal. We make tests intelligent by connecting laboratory results to a patient's own clinical data, thereby personalizing the results. Our novel insight was realizing that all laboratory test results, genomic or otherwise, could be contextualized for a specific patient based upon that patient's unique characteristics, and technology could therefore guide therapy selection and treatment decisions to allow each patient to progress on their own unique path. The drugs recommended, the clinical trials explored, the care pathways evaluated, the adverse events considered—all have the potential to be refined and enhanced when test results are connected to a patient's personal profile, enabling the right patient to be routed to the right therapy at the right time.

To accomplish this, we built the Tempus Platform, which comprises both a technology platform to free healthcare data from silos and an operating system to make the resulting data useful. Our proprietary technology has allowed us to amass what we consider to be one of the largest libraries of clinical and molecular oncology data in the world. Our goal is to embed AI, including generative AI, throughout every aspect of diagnostics to enable physicians and researchers to make personalized, data-driven decisions that improve patient care.

The ability to deploy AI in precision medicine at scale has only recently become possible. Advances in cloud computing, imaging technologies, large language models and low-cost molecular profiling, along with the digitization of vast amounts of healthcare data, have created a landscape that we believe is finally ripe for AI. However, despite an increase in the availability of healthcare data, physicians and researchers are largely unable today to leverage this data to improve patient care. The vast majority of healthcare data remains disconnected and lacks harmonization and structure. Traditional diagnostic tests are typically based only on a single data modality, such as a blood-based biomarker or a genomic mutation, and do not connect and integrate other forms of relevant clinical data, such as outcomes, or adverse events, or pathology results, which are essential for many clinical decisions.

In order to bring AI to healthcare at scale, we began by rebuilding the foundation of how data flows in and out of healthcare institutions. We established data pipes, going to and from providers, to allow for the free exchange of data between physicians, who interpret data, and diagnostic and life science companies, who provide data. Without this capability, we believe that data could continue to accumulate without impacting patient care. Tempus has built this integrated Platform, and we are now deploying it at scale in the United States in oncology, and other areas, including neuropsychiatry, radiology, and cardiology, with aspirations to eventually be in all major disease areas globally. Our Platform connects multiple stakeholders within the larger healthcare ecosystem, often in near real time, to assemble and integrate the data we collect, thereby providing an opportunity for physicians to make data-driven decisions in the clinic and for researchers to discover and develop therapeutics.

Tempus is a technology company focused on healthcare that straddles two converging worlds. We strive to combine deep healthcare expertise, providing next-generation diagnostics across multiple disease areas, with leading technology capabilities, harnessing the power of data and analytics to help personalize medicine. Unlike traditional diagnostic labs, we can incorporate unique patient information, such as clinical, molecular, and imaging data, with the goal of making our tests more intelligent and our results more insightful. Unlike technology companies, we are deeply rooted in clinical care delivery as one of the largest sequencers of patients in the United States. Straddling both worlds is advantageous as we believe Intelligent Diagnostics represent the future of precision medicine, informing more personalized and data-driven therapy selection and development.

Our Platform includes proprietary software and dedicated data pipelines that create a network of healthcare institutions through approximately 450 unique data connections, many of which supply us with complex multimodal data in near real time, across more than 2,000 healthcare institutions that order our products and

[Table of Contents](#)

services. Healthcare institutions supply us with this data in our capacity as a covered entity (for example, when we provide Next Generation Sequencing, or NGS, services on behalf of a patient), or as a business associate (for example, when we provide clinical trial matching services or data de-identification and structuring services). In addition to the data we receive in these capacities, we currently have a limited number of paid license agreements through which we acquire de-identified data directly from healthcare associations or institutions, and in certain circumstances we cover the actual direct costs associated with the technical integrations needed to create a data connection. We then integrate this data into a unified multimodal database through which we offer numerous analytical and decision support capabilities to our customers. We establish dedicated and integrated data connections with healthcare institutions to enhance the information we provide in our clinical reports, to increase the effectiveness of our clinical trial matching services, and to enable our AI Applications product line, which we believe has the ability to transform healthcare.

We have developed multiple products—each based on our Platform—that have allowed us to invest in structuring and harmonizing multimodal data, which is a necessary precursor for deploying AI at scale. Our products are organized under three product lines, *Genomics*, *Data*, and *AI Applications or Algos*. Each product line is designed to enable and enhance the others, thereby creating network effects in each of the markets in which we operate. Our business model allows pharmaceutical and biotechnology companies to unlock value from the data we collect, and allows us to monetize a de-identified copy of that data, in different ways across our different product lines. We believe these network effects provide a unique advantage to our business as the compounding value of each data record in our database serves to enhance our competitive moat. The more data we collect, the smarter our tests become, the more applications we launch, the more physicians join our network, further growing our database, making our tests more precise for clinicians and our database more valuable for researchers.

The more data we collect, the smarter our tests become, the more applications we launch, the more physicians join our network, further growing our database, **making our tests more precise for clinicians and our database more valuable for researchers.**

Our *Genomics* product line leverages our laboratories to provide NGS diagnostics, PCR profiling, and other anatomic and molecular pathology testing to healthcare providers, life sciences companies, researchers, and other third parties. However, unlike other laboratory diagnostic testing providers, many of our tests are connected to clinical data in some manner, which allows our suite of tests to be self-learning and become more accurate with each new test that we run. Our *Data and Services* product line facilitates drug discovery and development for life sciences companies through two primary products, *Insights* and *Trials*. Through our *Insights* product, we license de-identified libraries of linked clinical, molecular, and imaging data and provide a suite of analytic and cloud-and-compute tools to pharmaceutical and biotechnology companies. Our second product within our *Data and Services* product line, *Trials*, leverages the broad network of physicians we work with in oncology to provide clinical trial support for pharmaceutical companies that are looking to reach hard-to-find and underserved patient populations. Our third product line, *AI Applications*, is focused on developing and providing diagnostics that are algorithmic in nature, implementing new software as a medical device, and building and deploying clinical decision support tools. The primary product of *AI Applications* is currently “Next,” an AI platform that leverages

machine learning to apply an “intelligent layer” onto routinely generated data to proactively identify and minimize care gaps for oncology and cardiology patients. As this product gains adoption, we intend to leverage large language models, generative AI algorithms, and our vast database of de-identified data to develop algorithmic diagnostics designed to identify these patients earlier in their disease progression, when treatments are most effective.

Industry Background

The Limitations of Employing Technology, Data, and AI in Healthcare and Precision Medicine

Technology has had a significant impact on almost every sector of our global economy. From the way we shop online, access information on the internet, or use GPS to navigate the world. We benefit from, and depend on, technology, data, and the vast computational and connective ecosystem that surrounds us. Yet healthcare has seemingly lagged other industries in embracing the power of technology and leveraging the ensuing computational revolution.

We believe this is changing. Recent technological advancements have facilitated the deployment of modern computational methods, such as AI and machine learning, to improve healthcare. Breakthroughs in cloud computing, imaging technologies, large language models, and low-cost molecular profiling have made it easier and more cost effective to digitize, structure, harmonize, and store healthcare data, and analyze the resulting datasets at an unprecedented rate. These developments are expediting the adoption of AI, which we believe will impact all aspects of healthcare, from clinical diagnostic testing to the discovery and development of therapeutics, to healthcare delivery more broadly.

Despite the accumulation of healthcare data, we believe the healthcare system still lacks the integrated networks and modern analytical tools necessary to facilitate data-driven care at scale. The vast majority of healthcare data created today remains locked in silos and lacks harmonization due to decentralized institutions using non-standardized methods for collecting data, in addition to a large percentage of the data being in unstructured formats like free text (such as physician progress notes) and non-digitized images (such as pathology slides). Clinical outcomes data, to the extent it even exists, often remains disconnected from diagnostic data, and traditional laboratory tests provide results that are often based only on a single data modality that lack patient context. In addition, clinical and research decisions are too often made based on small sample sizes of historic data.

In order to bring AI to healthcare at scale, we began by rebuilding the foundation of how data flows in and out of healthcare institutions, which we refer to as the Tempus Platform. We have established data pipes, going to and from providers, which allow for the free exchange of data between physicians, who interpret data, and diagnostic and therapeutic companies, who provide data. Harnessing the power of this data at scale required a Platform that could break down data silos, collect vast amounts of multimodal data, structure and harmonize it, and deploy AI to make it useful for physicians and researchers to make data-driven decisions in the clinic or at the lab bench, thereby advancing precision medicine. Our access to broad and diverse data serves as the basis for our ability to train generative AI models, and we believe our relationships with healthcare institutions provide us with proprietary data to deliver on the promise of AI in healthcare. Without this Platform, we believe the data would continue to pile up at an increasing rate without improving patient care. We have built a version of this Platform and are now deploying it at scale in oncology in the United States, with other disease areas following.

Importance of Multimodal Healthcare Data

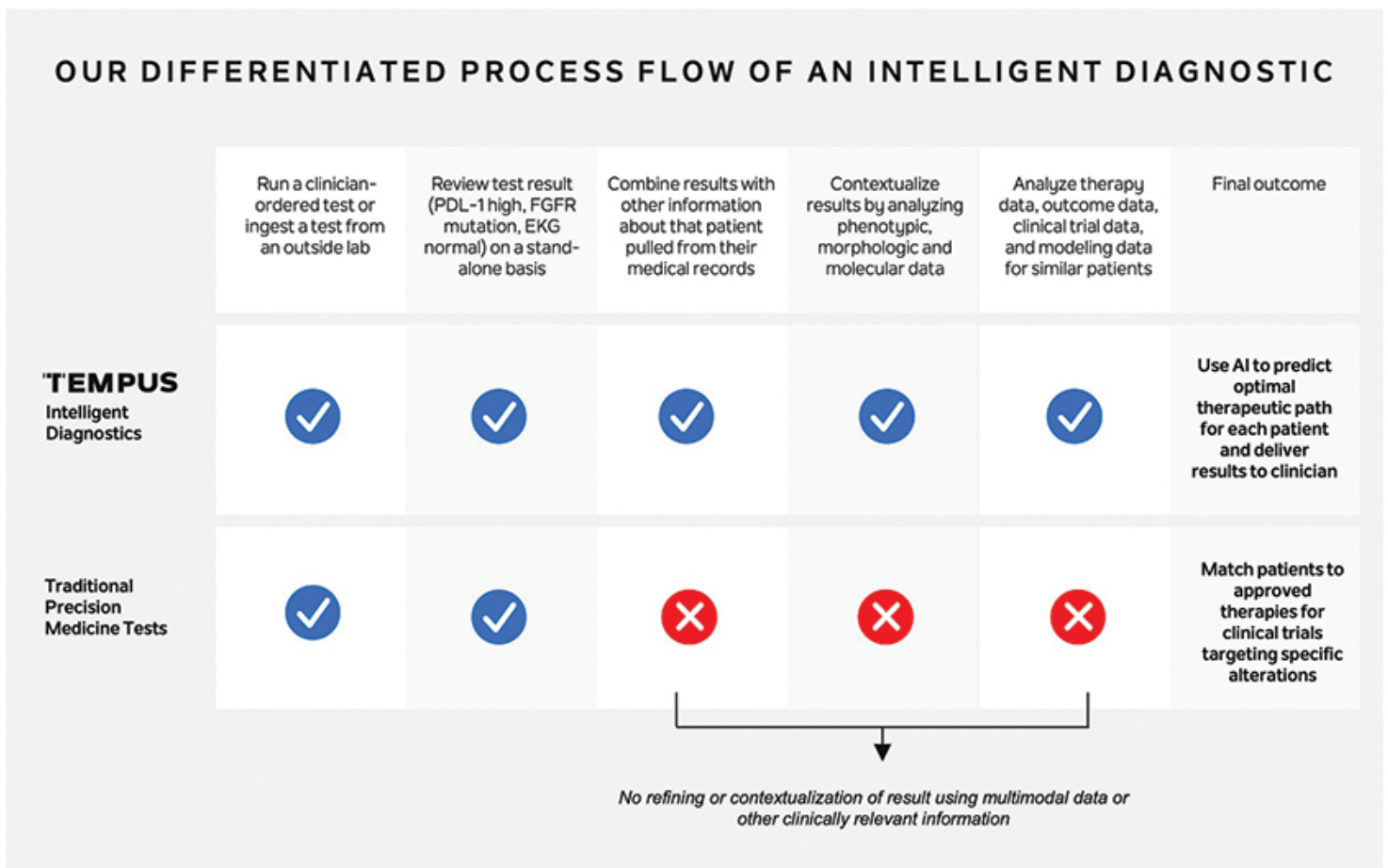
Technology is enabling the healthcare industry to collect data at an unprecedented scale, yet most datasets continue to be fractured or narrowly focused by disease type or data modality; almost none are comprehensive enough to provide a full picture of the patient and their clinically relevant characteristics. We set out to solve that problem by building a platform that collects broad datasets in near real time and at scale. Our Platform is differentiated in several ways. First, we collect data from multiple diagnostic modalities, including NGS, anatomic pathology slides, radiology images, and other laboratory tests. Second, the data we collect is often connected to EHR data, such as key phenotypic characteristics, therapeutic data, and clinical outcome and response data. Third, our Platform is multi-disease, spanning oncology, neurology, cardiology, and infectious disease. Our Platform is purpose built to deploy AI at scale, using multimodal datasets, across disease areas. We believe these differentiators have the potential to transform healthcare.

A New Industry: Intelligent Diagnostics to Advance Precision Medicine

While AI has the potential to broadly impact healthcare, we believe it will transform diagnostics first. Diagnostics, broadly defined, is the process of determining by examination or assessment the nature and circumstance of disease. Physicians use diagnostics all the time; they order blood tests, biopsies, scans, genomic tests, and others. Physicians rely on diagnostic results to make the vast majority of their treatment decisions. Researchers rely on diagnostic tests to better understand disease and make better decisions throughout their discovery processes.

The ability to leverage generative AI on top of large, harmonized, multimodal datasets provides the opportunity to make diagnostic tests more personalized, and therefore more intelligent. Intelligent Diagnostics incorporate an individual patient’s longitudinal phenotypic, morphologic, and molecular data, including outcome data from the patient’s EHR, to give laboratory test results clinical context. In doing so, Intelligent Diagnostics can leverage generative AI to make laboratory tests more accurate, tailored, and personal. The test result itself is designed to be specific to each patient and their own unique patient journey. The result is also informed by our large dataset that enables association of clinical outcomes and therapeutic response for patients who are similar to the patient being treated.

The process for making a diagnostic “intelligent” improves upon the process for performing genomic testing, by leveraging technology and data to add clinical context and therapeutic insights. An Intelligent Diagnostic requires the following: (i) perform a laboratory test or ingest results from a laboratory test; (ii) review the test results on a stand-alone basis; (iii) combine the stand-alone results with other forms of relevant clinical data from that patient’s medical records; (iv) contextualize or reconfigure the stand-alone laboratory results to the extent necessary with the insight derived from that patient’s clinical history; (v) include the outcome and response data of patients who are similarly situated to the patient for whom the test was ordered; and (vi) use generative AI to derive analytical and clinically relevant insights and provide those to the physician and patient. See below for an illustration comparing an Intelligent Diagnostic to a standard genomic test:



[Table of Contents](#)

We believe the adoption and deployment of Intelligent Diagnostics will have a substantial impact on patient care. In oncology, for example, Intelligent Diagnostics have the potential to eventually incorporate insights using data from molecular and anatomic pathology, bioinformatics, genomic variant analysis, inherited cancer risk, computational biology, drug label data, noted adverse events, clinical trial data, research publications, investigational studies, care pathways, real world evidentiary studies, and phenotypic and morphologic data. We already have the ability to incorporate many of these data elements today.

The consequence of incorporating multimodal data is to make precision medicine “personalized” as opposed to “targeted.” A targeted diagnostic test might find a specific condition or characteristic of a patient that is relevant to a particular therapy. For example, in cancer, a targeted diagnostic test may identify a genomic biomarker that could inform therapy selection, such as identifying a HER2 amplification that would allow a HER2 inhibitor to be prescribed to a breast cancer patient. The standard test to determine whether a HER2 amplification is present (other than at Tempus) is typically not designed to assess factors such as whether the patient is male or female, old or young, or has diabetes or a heart condition. Nor does the standard test consider the medication the patient has taken or is currently taking, or the adverse events the patient has experienced.

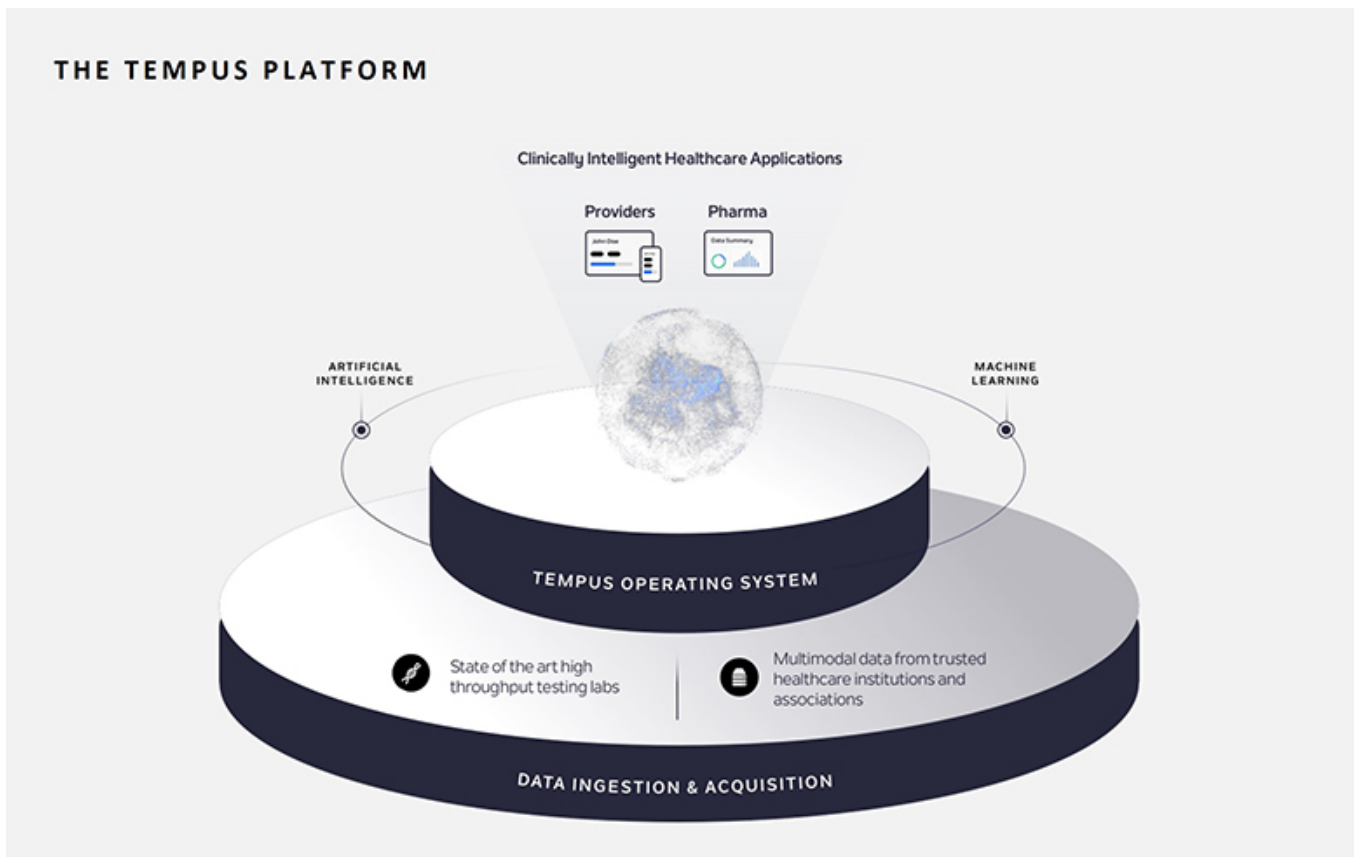
An Intelligent Diagnostic test, by contrast, might recommend specific therapies based not just on a singular characteristic, but on the comprehensive profile of the patient who will receive the proposed therapy. For example, an Intelligent Diagnostic might highlight that the breast cancer patient should consider immunotherapy before taking the HER2 inhibitor, or might highlight a series of adverse events the physician should be aware of based on other phenotypic characteristics for that patient, such as if the patient had a heart condition and therefore an elevated risk of a cardiac adverse event from taking the HER2 inhibitor. By linking multimodal data regarding both the disease, such as cancer or diabetes, and the host, our tests can provide a more comprehensive and holistic view of the patient and reconfigure results based in part on the clinical data we collect and the aggregate information in our database.

Intelligent Diagnostics also have the potential to disrupt the clinical trial process. Today new therapies are typically approved based on randomized clinical trials that apply to broad populations and demonstrate incremental improvements over the existing standard of care. The current process suffers from several inherent flaws. First, clinical trials are generally expensive and slow to complete. Second, if and when therapeutics are approved, they can have less of an impact on the larger population than the trial population, given an inherent bias on who has access to academic medical centers and emerging studies. Third, many new therapies are only effective on a subset of patients that enter clinical trials.

We believe Intelligent Diagnostics, AI, and technology broadly can help solve these problems. We believe our ability to contextualize test results to individual patients, to incorporate real world evidence at scale, to identify patterns across similarly situated patients, will help physicians make better, data-driven decisions—which drug to prescribe, which trial to consider, and so on.

The Tempus Platform

Tempus set out to build proprietary technology to implement Intelligent Diagnostics and to facilitate access to, and use of, the resulting datasets. The Tempus Platform connects multiple stakeholders within the larger healthcare ecosystem and provides both the technical infrastructure for what we consider to be one of the world’s largest libraries of matched clinical and molecular data, and an operating system to make that information useful. Our Platform is end-to-end and vertically integrated. It allows us to ingest data from providers, perform diagnostic testing upon request, generate results leveraging our multimodal database, and provide clinical context for a specific patient. Below is a graphic illustrating our Platform’s core functionality.

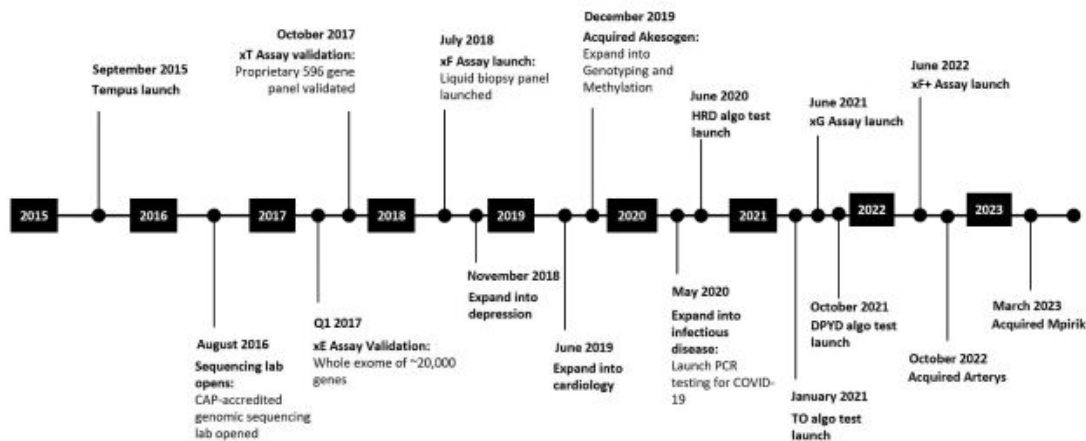


We believe our AI-enabled Platform can provide unique value whenever two conditions exist: a heterogeneous diseased population and a variety of therapeutics or therapeutic pathways, which are often prescribed based on trial and error. For example, in oncology, there is a diverse population diagnosed with cancer, and each subtype has different characteristics. The combination of unique patient characteristics and different cancer subtypes results in a variety of phenotypic attributes (old, young, male, female, black, white, etc.). In addition, there are hundreds of possible therapeutic paths to consider in cancer (surgery, radiotherapy, chemotherapy, targeted therapy, immunotherapy, etc.). These conditions create an ideal backdrop for the benefits of big data and AI.

The same is true in neuropsychiatry. A heterogeneous population suffers from numerous neurological disorder subtypes, such as depression, anxiety, bipolar disorder, and other psychiatric conditions. Like oncology, there is a diverse patient population and a number of prescribed antidepressants, often based on trial and error. Further, the complexity of oncology, neuropsychiatry, and many other major causes of morbidity necessitate a multimodal data approach, as any single modality (e.g., DNA-only) is unlikely to provide enough information to differentiate meaningful patient subgroups. We believe technology and AI should facilitate data associations and substantially reduce the guesswork associated with which drug to prescribe, in what amount, and in which order.

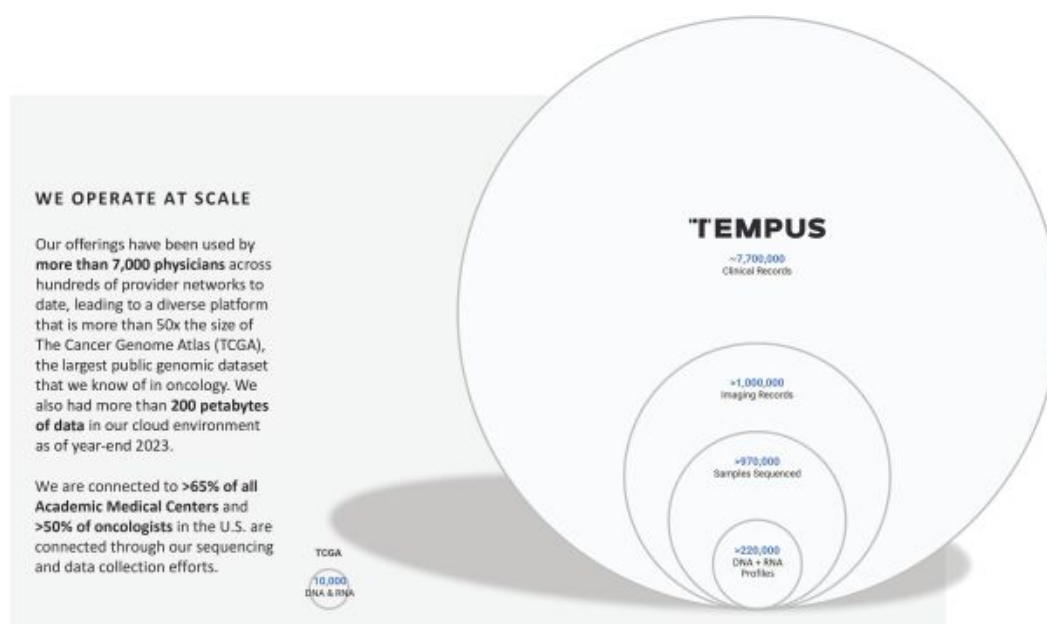
Facilitated by our relationships with many leading hospitals across the healthcare system in the United States, we believe we are well positioned to introduce precision medicine at scale across multiple disease categories and drive adoption of our Platform and novel AI solutions. We are leveraging our ability to collect, structure and harmonize data, and deploy AI on large datasets to facilitate precision medicine broadly. We initially deployed our Platform in oncology, expanded substantially within oncology, and recently extended into neuropsychiatry, radiology, and cardiology. Below is a timeline of our Platform’s evolution, both within oncology and into different disease categories:

TIMELINE OF EXTENSION OF OUR PLATFORM



Core Elements of our Platform

The Tempus Platform combines multiple elements into a vertically integrated infrastructure that enables us to ingest data from providers, structure and harmonize the data into a common database, provide laboratory diagnostic testing, and deliver personalized results that provide clinical context by leveraging our data. We offer closed-loop, full-stack, bi-directional integrations between a clinician’s desktop and our laboratory diagnostic capabilities, analytics platform, and repository of multimodal data. Our scaled, interconnected provider network covers more than 50% of U.S. oncologists and provides us with broad data rights, including the rights to longitudinally updated data from time to time. The combination of our Platform and vast provider network yields a powerful flywheel that continues to become more accurate and precise as more patients are added, thereby compounding the network effects of our offering. We believe each of these elements is difficult for competitors to replicate, and together represent a significant competitive advantage. The following diagram represents the different elements of our Platform.



Ingestion and Generation of Data

We ingest healthcare data in near real time and at scale, including molecular, clinical, and imaging data. Between our sequencing and data collection efforts, we are connected in some way to more than 50% of all oncologists practicing in the United States, along with a growing number of patients in neuropsychiatry, cardiology, and infectious disease. Our methods for collecting and creating data include the following:

Ingesting data through our relationships and partnerships with healthcare providers. We have developed proprietary tools to establish approximately 450 direct data connections, across more than 2,000 hospitals, many of which are bi-directional. We have established relationships with hundreds of provider networks, including more than 65% of all academic medical centers in the United States. To obtain data from these sources, we use a variety of near real-time connections (e.g., HL7, FHIR) and batch data exchanges. Healthcare institutions supply us with this data in our capacity as a covered entity (for example, when we provide NGS services on behalf of a patient), or as a business associate (for example, when we provide clinical trial matching services or data de-identification and structuring services). We ingest and structure data using optical character recognition, or OCR, natural language processing, or NLP, and proprietary workflow tools along with manual data curation. Our proprietary tools connect to a provider’s EHR system, data warehouse, or third-party data provider to pull out relevant structured and unstructured data that the provider has agreed to provide to Tempus, including longitudinal follow-up data to the extent the provider has made such data available. To facilitate these data-sharing relationships, we have developed software products and services that align to our customers’ interests by helping providers use our software tools to improve patient care. In certain circumstances, we cover the actual direct costs associated with the technical integrations needed to create a data connection. We cover these costs to help facilitate providers’ contribution of data and their corresponding use of our products, which then makes our tests more intelligent and helps them to facilitate the delivery of better care. We generally retain the rights we acquire in de-identified data even if our contractual obligations expire or are terminated.

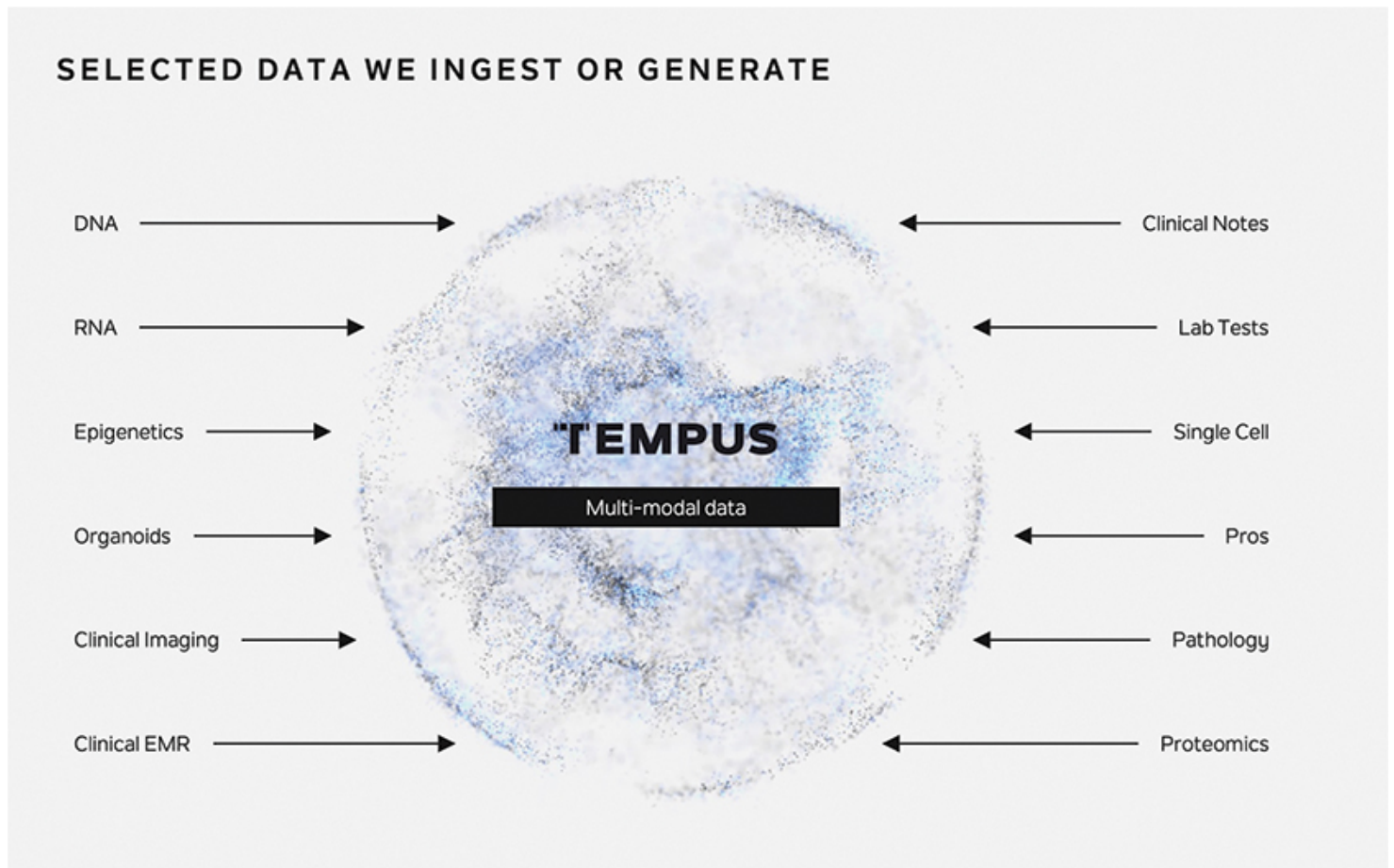
Relationships with industry associations. In addition to healthcare providers, we work with numerous industry associations in the United States, such as ASCO. Under our collaboration with ASCO, we structure and distribute the oncology data ASCO collects as part of CancerLinq, which is their oncology data effort. We work with other large associations such as ONCare Alliance, LLC (surviving entity after merger of the National Cancer Care Alliance and the Quality Cancer Care Alliance), and have agreements in place with

[Table of Contents](#)

large integrated community practices. While our relationships in oncology are widespread, we are making inroads in other disease areas. For example, we are working with a large hospital network to train algorithmic models based on a de-identified subset of approximately 3.5 million ECGs, across more than 700,000 patients, with decades of longitudinal clinical data, including outcome and response data. We also have agreements with numerous other institutions through both our sequencing and data efforts to collect and structure multimodal infectious disease data, and have entered into a variety of partnerships and collaborations across neuropsychiatry, diabetes, and cardiology giving us access to additional clinical data.

Laboratory diagnostics. In addition to our dedicated data pipelines, we generate data for our Platform from our three high-throughput diagnostic testing labs in Chicago, Atlanta, and Raleigh. Our labs offer a range of anatomical and molecular NGS tests, including a broad portfolio of solid tumor and liquid biopsy cancer tests. Our laboratory offerings enable us to populate our database with connected and comprehensive molecular, clinical, and morphologic data that has been de-identified. We also make available an unrestricted copy of the raw files containing the rich data we generate in the laboratory, along with any clinical data we curate, to the providers who order our tests, to further enable their own research efforts.

We ingest and generate a variety of different types of data from different sources. The following represents selected data modalities that we collect and aggregate into our database.



Proprietary Data Processing

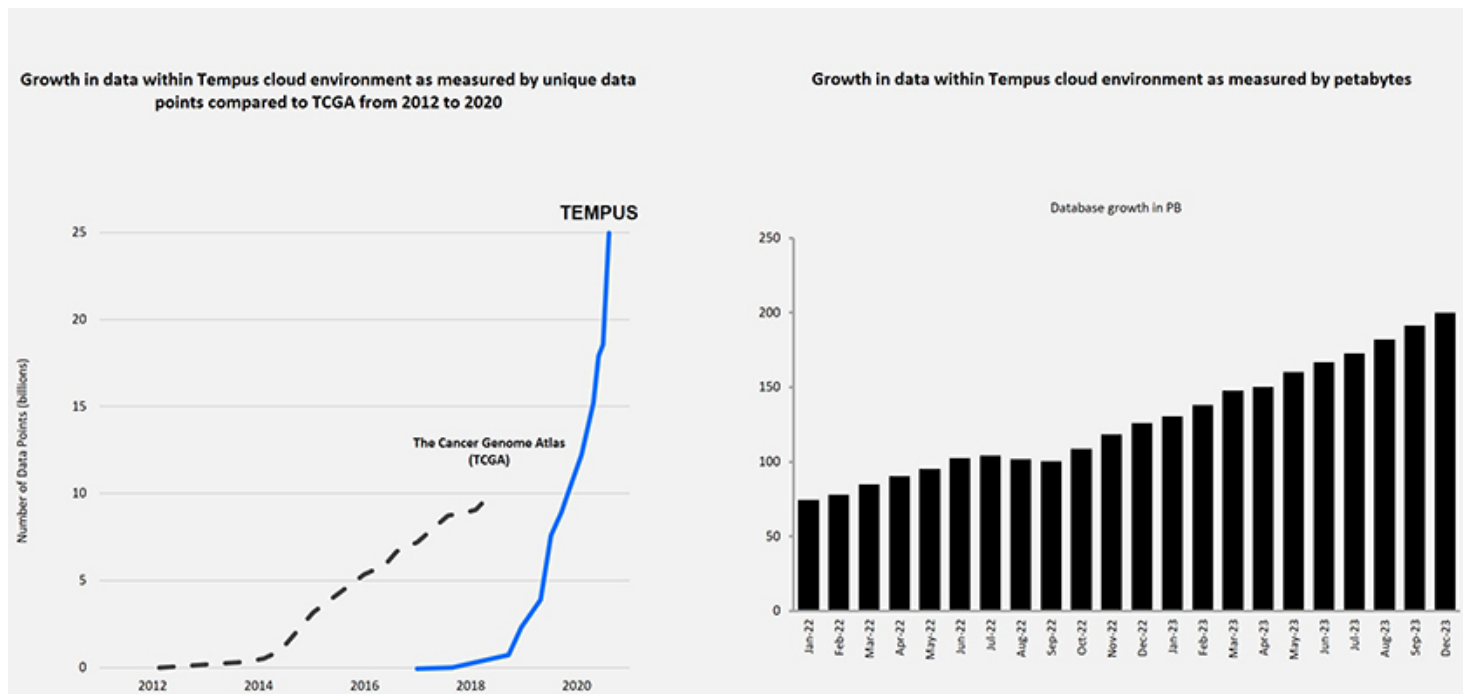
Once data is ingested, we deploy proprietary clinical data abstraction tools, including natural language processing, optical character recognition, and our abstraction software, to structure, harmonize, and de-identify the data we collect. We have developed various software tools, including algorithmic agents that leverage large language models, to organize millions of records into a common format that spans a variety of data types. For example, we organize clinical data from unstructured documents and structured EHR fields, and typically digitize whole-slide pathology images as part of our clinical workflow. We then combine this data with the molecular data that we generate in our labs or process from third parties, giving us a more comprehensive profile of patients. Unstructured data housed in physician notes and other documents is processed using OCR and NLP, mapped to Tempus' Medical Ontology, and routed to

Table of Contents

data abstractors for further curation and quality control. Typically we receive identified data, either in our capacity as a covered entity under the Health Insurance Portability and Accountability Act, or HIPAA, or to the extent we have a business associate agreement with the provider. Following abstraction and structuring, we de-identify data and only retain the resulting de-identified dataset, other than through our obligations to retain selected identified data as a covered entity providing laboratory tests to clinicians. Many clinicians who order Tempus tests clinically are also involved in research related activities. By making this organized and structured data available to the clinicians (along with raw files associated with the testing we perform) we serve, those clinicians can use the data to further their own research efforts to help patients.

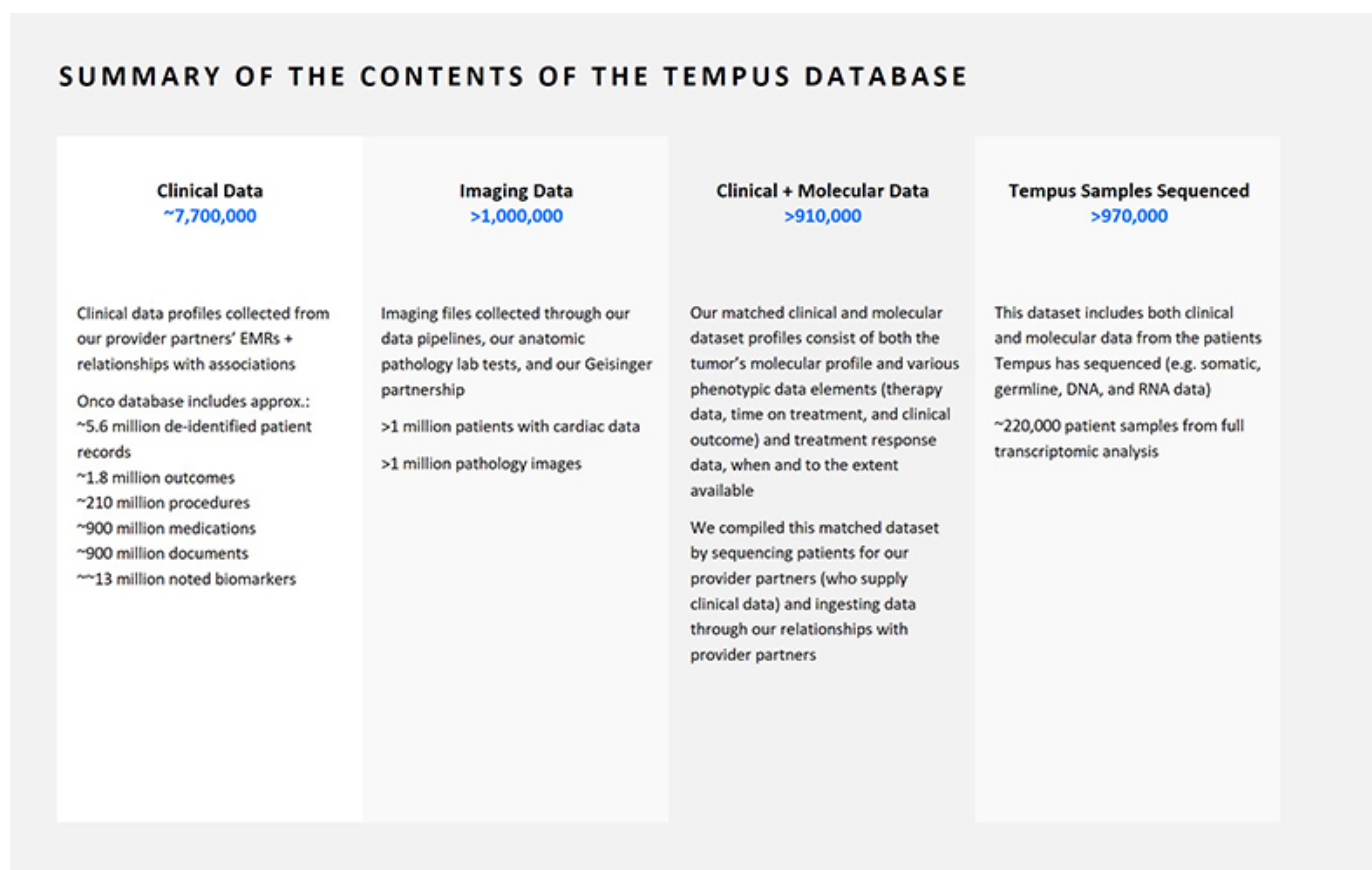
Our Proprietary Multimodal Database

We believe most healthcare databases lack real-time functionality, depth among data types, and the scale of matched clinical and molecular records needed to meaningfully improve therapeutic research and development. Tempus is attempting to solve this problem by democratizing the use of near-real time molecular, clinical, and imaging data by embedding our solution into the clinical care of patients. As our testing volume has grown, and as our dedicated data pipelines have expanded, the size of our database has increased exponentially. Since we launched our Platform in 2016, Tempus has amassed over 900 million documents, across more than 5.6 million de-identified patient records, including approximately 1.3 billion pages of rich clinical text that we use to train our large language models. The database also includes over 1,000,000 records with imaging data, more than 900,000 with matched clinical records linked with genomic information, and more than 220,000 with full transcriptomic profiles. Within oncology specifically, we believe this represents one of the largest and most comprehensive molecular libraries of cancer patients in the world. The breadth of our database, the quality and diversity of our data, as well as its regularly updating nature, allow us to offer a variety of AI-enabled solutions to the market. We believe our unique data set enables us to bring the benefits of generative AI and large language models to healthcare, as our curated, multimodal database can be used as a proprietary training set to build a variety of AI based applications, which we intend to deploy through our existing network and distribution platform. We also retain the rights to broadly commercialize de-identified data. As the amount of data in our cloud environment continues to grow from its current size of more than 200 petabytes, we believe new AI applications and opportunities will emerge that are only possible with scale, driving innovations in patient treatment that were previously unattainable. The following diagram represents the growth of our database over time.



[Table of Contents](#)

Another valuable attribute of our dataset is the number of different data modalities represented. We believe multimodal data is a necessary predicate to successfully build and deploy AI-based applications given the complexity of disease and the various attributes across different forms of data (e.g., text, images, molecules, etc.). As of March 31, 2024, our database included the following types of data, among others:



Footnote: Our clinical data typically includes the following information to the extent provided and abstracted by Tempus: unique identifier; age; sex; race/ethnicity; histology; stage of disease; sample type (primary vs. metastatic); anatomical site of sample and method of procurement; cancer treatment history, including therapies administered; timing of relapse and timing of treatments, including cancer-related treatments and surgery; genomic profiling results (e.g., internal, external providers); tumor response; progression free survival; RECIST or equivalent; ECOG/Karnofsky scores, or equivalent; and adverse events.

Proprietary Software Tools and Solutions

We have developed numerous software tools and applications to help make our services accessible to multiple constituencies within the healthcare ecosystem and support our various product lines. We believe this system architecture, which employs AI techniques such as neural networks, deep learning, large language models, and other statistical learning techniques to generate patient-specific insights. We are able to not only train and validate some of these AI models for research use, but we can also develop them into clinical-grade algorithmic tests, or Algos, and deploy them clinically as part of routine care. As our data advantage and system architecture continue to improve, we believe our existing Intelligent Diagnostics will gain further adoption thereby accelerating our ability to deploy technologies, including AI Applications, in the clinical setting.

We are both a healthcare company and a technology company, which we believe allows us to more quickly and effectively develop and deploy AI techniques within our proprietary software systems. To do so, we rely on employees with expertise spanning multiple disciplines, including those with PhDs and other advanced degrees in the scientific fields of machine learning, data science and computational biology, as well as Medical Doctors practicing disciplines such as pathology and oncology. In addition to our diverse employee base, we are able to train AI models using our proprietary and expansive multimodal, de-identified dataset. We leverage our varied

[Table of Contents](#)

expertise and extensive resources to continuously monitor and review the statistical performance of the models used across our Platform to ensure performance and prevent degradation.

We describe below some of the core software applications that form part of our Platform, including examples where we have developed and deployed AI techniques.

External Facing Applications

We have two primary software applications that serve as interfaces for different markets and allow our customers to interact with our Platform. Hub is our clinical application for physicians and other healthcare providers and is used primarily in our Genomics product line as an end-to-end application for healthcare providers who use our NGS tests. Lens is our application for life sciences customers and other healthcare researchers, launched in May 2021. Lens is aligned with Insights, one of our products within Data, and allows users to identify, license, and ultimately analyze cohorts of data for research purposes. We typically enable our customers to access free or charge certain software applications (like Hub) and certain features of other applications (like Lens). However, in some cases we may charge for access to Lens when a customer is interested in some form of customization or access to Lens' full suite of capabilities.

Hub

Hub can be accessed on the web or through our mobile applications. Hub enables physicians and other providers to interact with our Platform, place orders for our laboratory tests, track them through the sequencing process, view results, and develop treatment plans using the other information Tempus makes available. Hub streamlines and automates what previously required a significant investment of both time and resources for those ordering and delivering genomic reports.

A physician's experience, through Hub, typically begins with our online ordering feature, which presents providers with Tempus' various test options and guides users through the ordering process. Once Tempus has processed an order and sequenced a specimen, Hub synthesizes information across our various tests, orders, and patients, and presents the information in a consumer-friendly interface. For example, Order Summary synthesizes information from various clinical orders, test results, and other information relevant to a patient's course of treatment. A typical patient might have multiple sequencing events over time. Hub visually presents all of a patient's results side-by-side, so a treating physician can comprehensively view how a patient's disease has changed over time, including in response to therapy. Hub also provides care teams a robust set of search and filtering tools so they can navigate our Platform. Physicians can use Hub to identify similarly situated patients or patient sub-groups, including by specific molecular alteration. Physicians can also export and download the resulting dataset for further analysis.

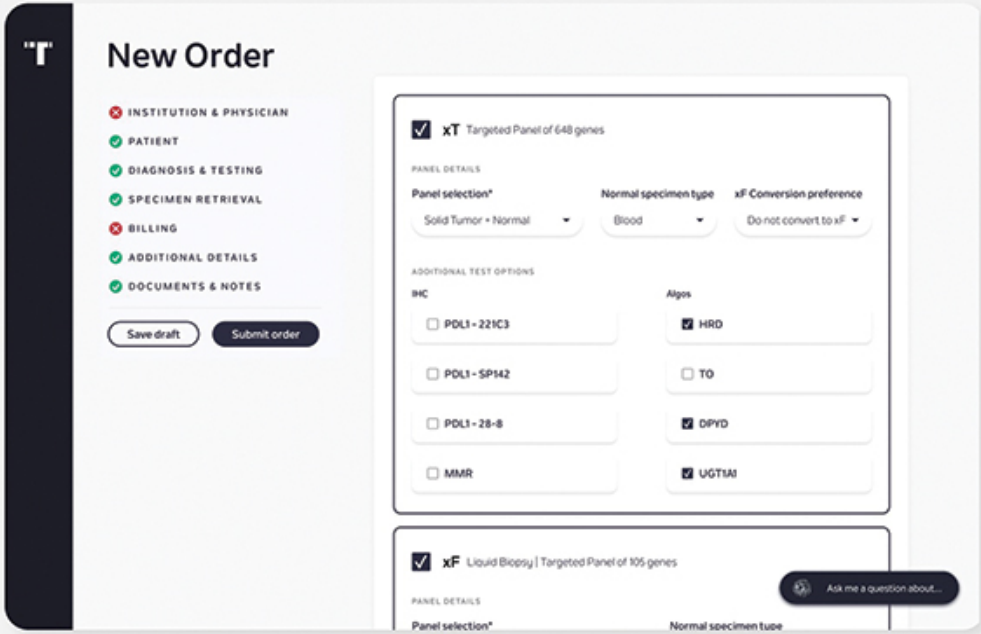
Hub offers additional functionality that goes beyond ordering and presenting clinical results. Our clinical trial system, for example, handles the complexities of matching patients to clinical trials, by synthesizing clinical and molecular data matched against inclusion and exclusion criteria for the trial. It even allows physicians to activate their point of care as a clinical trial site, if approved by the trial sponsor, in order to easily enroll patients who would otherwise not have access to experimental therapies. The proprietary features within Hub put powerful analytics in the hands of physicians, allowing them to pursue research opportunities using accessible molecular data, and explore immune insights such as HLA type, immune infiltrates and neoantigens. Finally, Time on Therapy provides physicians a view into the Tempus Precision Medicine Library, which includes the treatment paths of patients within our de-identified database who display similar molecular or phenotypic profiles to their own patients. These tools enable new patients to potentially benefit from the experience of those that came before.

One example of an AI model whose results are available within Hub, and which illustrates a typical development and validation process for our AI models, is our Tumor Origin, or TO, algorithm. Our TO algorithm predicts the site of origin for cancer patients whose primary tumor site is unknown using machine learning models trained on tumor RNA expression results from our de-identified multimodal database. We began developing our TO

[Table of Contents](#)

algorithm in 2019, and it was first deployed in a clinical setting in 2021. We developed and trained the TO algorithm, like other machine learning models, by adopting current best practices for AI model development. For example, in developing the TO algorithm, we explored distinct model architectures (logistic regression, random forests and neural networks) and feature selection methods, and we utilized multiple cross validation techniques using both our own and independent third-party datasets. After its launch, we continue to monitor the performance of the TO algorithm by using advanced statistical methods to detect potential model drift or degradation over time. Each TO prediction is reviewed by our board certified pathologists for consistency with underlying data, and the distribution of expected cases is reviewed and assessed against the expected distribution of diagnoses.

We include below some illustrations depicting some of Hub's capabilities:

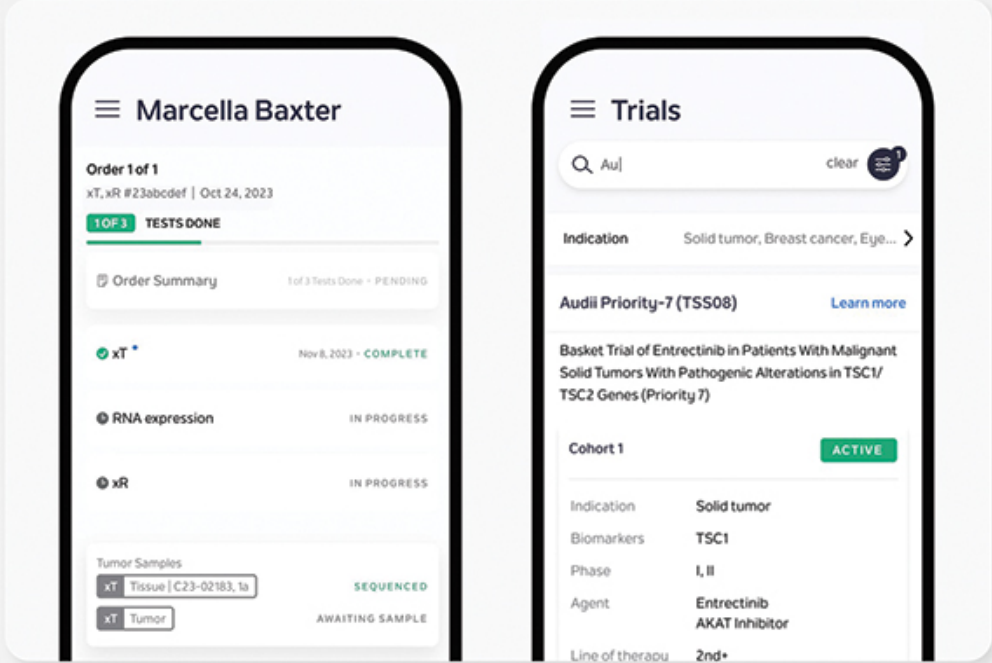


The screenshot shows a 'New Order' form with a sidebar menu on the left containing: INSTITUTION & PHYSICIAN, PATIENT, DIAGNOSIS & TESTING, SPECIMEN RETRIEVAL, BILLING, ADDITIONAL DETAILS, and DOCUMENTS & NOTES. The main content area displays two test panels:

- xT Targeted Panel of 648 genes**: Panel selection* (Solid Tumor - Normal), Normal specimen type (Blood), xF Conversion preference (Do not convert to xF). Additional test options include BIC (PDL1-221C3, PDL1-SP142, PDL1-28-8, MMR) and Allos (HRD, TO, OPYD, UGT1M).
- xF Liquid Biopsy | Targeted Panel of 105 genes**: Includes a 'Ask me a question about...' button.

ONLINE ORDERING

Online ordering guides users through the ordering process allowing them to discover new test options relevant to their patient.



The screenshots show the mobile app interface for a patient named Marcella Baxter. The left screen displays 'Order 1 of 1' for xT, xR #23abcdef | Oct 24, 2023, with a progress bar for 1 of 3 tests done. The right screen shows 'Trials' with a search bar containing 'Au|' and a 'clear' button. The trial details include:

- Indication: Solid tumor, Breast cancer, Eye...
- Audii Priority-7 (TSS08) - Learn more
- Basket Trial of Entrectinib in Patients With Malignant Solid Tumors With Pathogenic Alterations in TSC1/ TSC2 Genes (Priority 7)
- Cohort 1 - ACTIVE
- Indication: Solid tumor
- Biomarkers: TSC1
- Phase: I, II
- Agent: Entrectinib AKAT Inhibitor
- Line of therapy: 2nd+

MOBILE APPLICATION

The Tempus mobile application gives users access to the full Tempus experience, even when they are away from their computers. Reports are rendered in interactive views optimized for mobile devices. Physicians can help their patients enroll in trials using their phone.

T

John Spence

RADIOLOGY

Lesion 1 Lung (L.A)
27.7mm 04/18/22
39.9mm 10/19/22
+ 12.2mm 44%

Lesion 2 Lung (L.A)
20.8mm 04/18/22
23.5mm 10/19/22
+ 2.7mm 13%

REPORTS

RECIST Evaluation
Target Sum 39.9mm 44%
Non-Target Sum 23.5mm 13%
Overall Res PD

MOLECULAR

Variant
EGFR exon 19
IHC
POS PDL1/22c3 +1%

CLINICAL

Notes
Treatment 1
Osimertinib 16 cycles

Mar 8, 2022 Apr 18, 2022 May 18, 2022 Jun 24, 2022 Oct 19, 2022 Nov 22, 2022 Jan 7, 2023

Clinical Radiology Molecular Clinical Radiology Molecular Molecular

RADIOLOGY

PIXEL Lesion 1 Lung (L.A)
Long Axis (mm)
27.7mm → 39.9mm

PIXEL Lesion 2 Lung (L.A)
Long Axis (mm)
20.8mm → 23.5mm

MOLECULAR

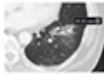
CTDNA (Blood)
EGFR exon19
VAF% (Median)
19.2% → 10.2% → 21.4%

IHC
PDL1 22c3
TP5%
+1%

CLINICAL Treatment History

Lesion 1 Lung (L.A)

+ 12.2mm 44%



Ask me a question about...

PATIENT SUMMARY

The patient summary interface surfaces all data about a patient in one place. Physicians can see detailed info about orders, such as the estimated delivery date. They can place orders on hold or convert them from solid tumor sequencing to a liquid biopsy. Completed results are summarized in a longitudinal view across orders.

T

Patient Tracker

Add patient
Download

Trial type: Interventional

Priority 3 New 3 **Monitoring 1** Enrolled Inactive

PATIENT	TRIAL	BIOMARKER	STATUS	NEXT VISIT	NOTES
Roy Brewer 05/17/1949	Janssen ED1	PTEN	MONITORING	11/20/2023 Scan	
Sarah Henry 02/12/1964	AstraZeneca SERENA-6	PIK3CA	MONITORING	11/28/2023 Blood draw	
Emelia Lee 05/03/1975	Janssen Mariposa 2	BRCA2	FUTURE POTENTIAL	12/14/2023 Provider visit	

Ask me a question about...

CLINICAL TRIALS

Tempus handles the complexities of clinical trial matching via Hub. A user can help their patient enroll in a clinical trial with minimal keystrokes.

T

Farrokh Rastegar

Order Progress 4 OF 4 TESTS DONE [View Order Summary](#)

TEST DETAILS
 Order 233mealva: xT 648 gene panel, PD-L1 22C3 IHC | Ordered Oct 13, 2023
 Order 233ssnjkc: xF 105 gene liquid biopsy | Ordered Oct 13, 2023

ORDER DETAILS
[Download order requisition](#)

TUMOR SAMPLES

xT Tumor	Collected Oct 12, 2023	Received Oct 13, 2023			SEQUENCED
xT Tissue C0C27-2685_2A	Collected Sep 12, 2023	Requested Oct 16, 2023	Received Oct 17, 2023	Reviewed Oct 18, 2023	SEQUENCED

NORMAL SAMPLES

xT Blood	Collected Oct 12, 2023	Received Oct 13, 2023			SEQUENCED
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TEST TRACKING

xT 648 gene panel Delivered Nov 2, 2023 [View Report](#) **COMPLETE**

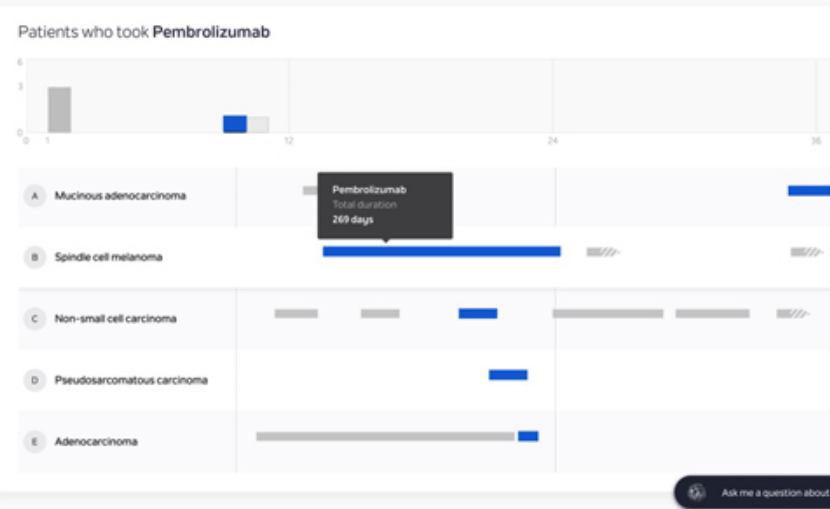
[Ask me a question about...](#)

ORDER SUMMARY

Order summary brings the important findings from a patient's order into a single, easily referenced document. It also allows Tempus to deliver insights from the broader Precision Medicine Library that are specifically matched to the patient case under review.

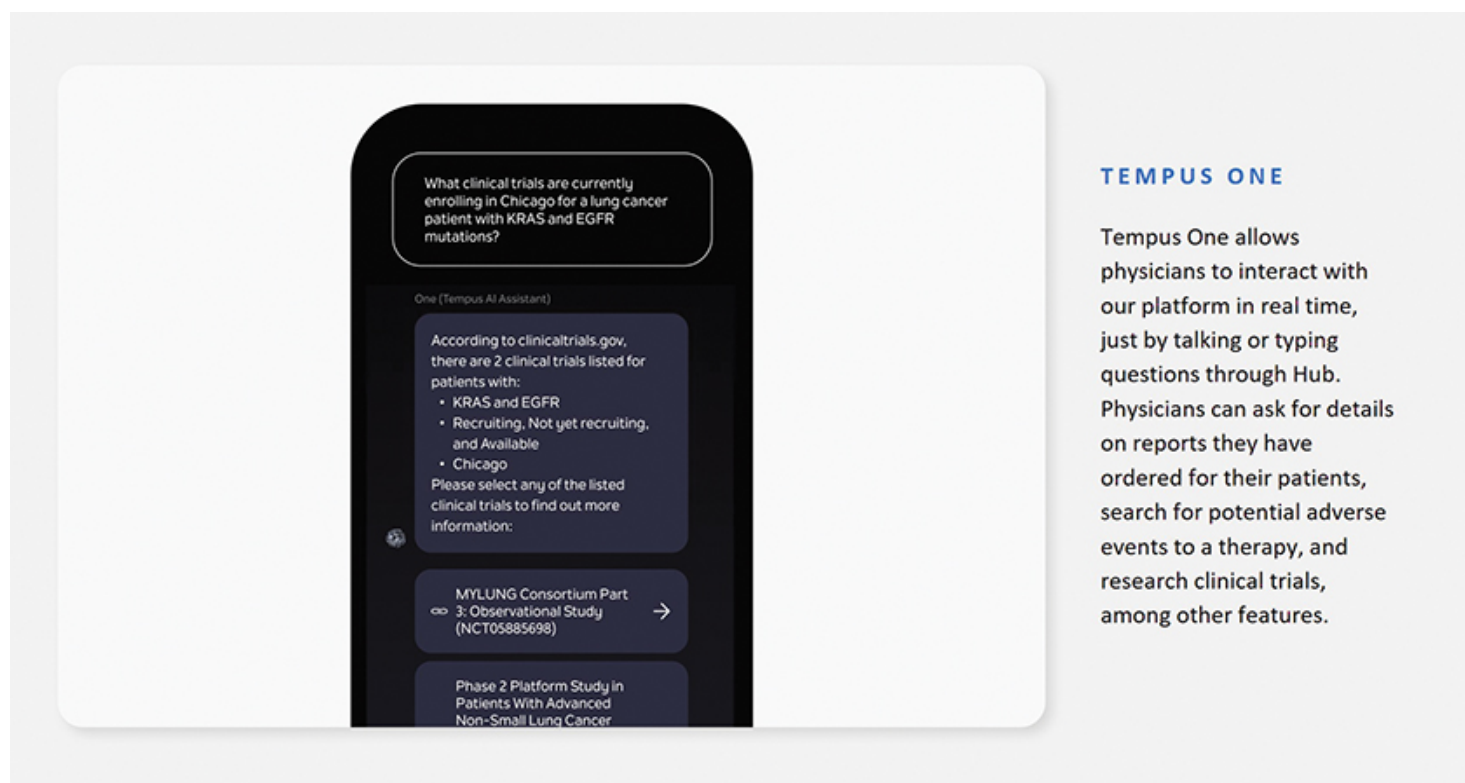
T

Time on Therapy



TIME ON THERAPY

Time on Therapy allows physicians to compare their patient with thousands of similar patients in the Tempus Precision Medicine Library, enabling a deeper understanding of the effectiveness of particular therapeutic regimens.



Lens

Lens is our software application for life sciences and advanced precision research. We designed Lens to expose our multimodal, de-identified dataset to two main constituencies: (i) clinicians interested in exploring data related both to their own patients and to similarly situated patients from the broader Tempus dataset, and (ii) pharmaceutical and biotechnology clients that are focused on drug discovery and development and want to explore our dataset and/or supplement their own analytics with our tools and data.

For clinicians, Lens helps users filter our multimodal database to identify groups of patients that meet their research requirements. It allows browsing, segmenting, selecting, and analyzing cohorts of patients using a variety of clinical, molecular, and demographic characteristics. We generally make these aspects of Lens available to our customers without charge because such access helps our customers identify data cohorts of interest and facilitates data licensing opportunities.

In addition to this basic functionality, Lens allows advanced computational users to perform robust analytics using our cloud-and-compute infrastructure and modeling tool set. We launched certain of these advanced features in May 2021, one of which is called Notebooks, a proprietary tool that allows users to run their own AI models within our cloud-and-compute environment, taking advantage of fast and streamlined access to our data and computational infrastructure, and saving researchers time and money. Over time, we intend to enter into separate subscription agreements, and charge separately, for expanded access to Lens and the increased functionality we intend to provide to our users.

We believe that as Lens evolves, it has the potential to redefine life sciences research as investigators can both use our tools for their computational needs and instantly download the data they need for their analysis. We are not aware of any other application in oncology, or any other major disease area, that allows researchers to build large multimodal cohorts, utilize advanced analytics capabilities to explore the data, and download data for deeper analysis in near real time.

We include below some illustrations depicting some of Lens' current capabilities, which we expect to continue to expand and enhance over time:

T

Advanced Filters

MODALITY Clinical AND DNA AND RNA AND Pathology 193,887

FILTER BY Primary Diagnosis: Head and Neck Squamous Cell Carcinoma(all) 3,643

FILTER BY Molecular Tests: Biomarker: EGFR or Curated NGS Tests: Gene: EGFR or Somatic Variants: EGFR 345

FILTER BY Regimen: Abarelix or Abarelix, Bicalutamide or Abarelix, Bicalutamide, Drug, Leuprolide or Abarelix, Bicalutamide, Leuprolide or Abarelix, Cyclophosphamide, Fluorouracil or Abatacept, Leucovorin, Oxaliplatin 26 patients

Search for keywords (e.g. EGFR)

Ask me a question about...

ADVANCED FILTERS

Advanced filters empower users to define and refine a subset of the full dataset based on precise clinical and molecular characteristics, and/or the availability of specific data (e.g. DNA results, RNA, or imaging).

T

Cohort Design

Table 1 Data Summary Data Completeness
Add analysis

Line of Therapy | Treatment

Line of Therapy	% of query	# of patients
Entire Cohort	100%	66
1st Line	62%	41
2nd Line	44%	29
3rd Line	29%	19
4th Line +	18%	12

Somatic Variant Genes | Tempus Molecular

Somatic Variant Genes	% of query	# of patients
CDKN2A	100.00%	66
RBI1	100.00%	66
TSP3	81.82%	54
ARID1A	33.33%	22
PIK3CA	31.82%	21
KMT2D	31.82%	21
LRR1B	30.30%	20
APC	27.27%	18
ATM	27.27%	18
KMT2C	25.76%	17

Institution | Institutions

Institution	% of query	# of patients
0014000004EP0yAA0	10.6%	7
00124000025ar7904l	4.55%	3

Regimen | Treatment

Regimen	% of query	# of patients
Pembrolizumab	25.76%	17
Carboplatin, Paclitaxel	10.6%	7
Cyclophosphamide	9.09%	6

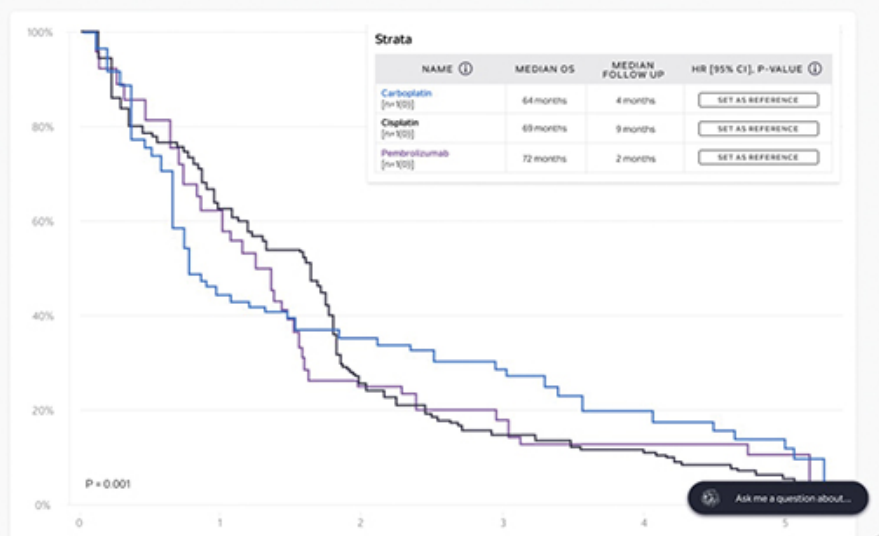
Ask me a question about...

COHORT DESIGN

Researchers can quickly build cohorts of interest and explore the unique data elements of the cohort they have designed. This allows researchers to ascertain if their cohort is sufficient for the questions they are trying to answer and the studies they are trying to conduct.

T

Survival Analysis

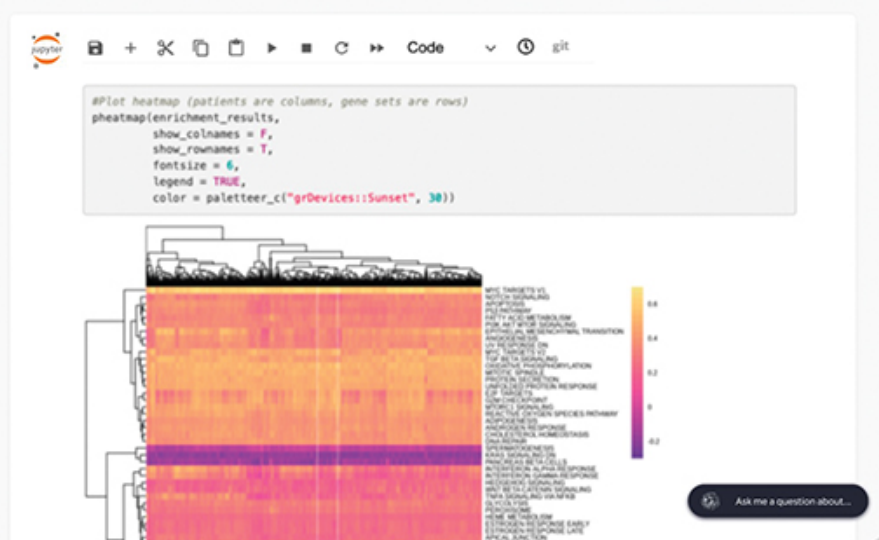


EXPLORATORY TOOLS

Physicians and researchers can use Lens to conduct complex analytics, including the exploration of why certain patients are having a positive, or negative response to therapy via purpose-built tools such as Time on Treatment.

T

Notebook in Workspaces



NOTEBOOKS

More advanced users can utilize Notebooks, which is a proprietary tool that allows the development of self-generated models within Tempus' cloud and compute environment, taking advantage of streamlined access to our data and computational infrastructure, and saving researchers time and money.

Other Software Applications

Our software applications extend beyond the oncology space. In the neuropsychiatry space, for example, we have built a series of proprietary and customized applications that are oriented around depression and other related psychiatric conditions. In addition, we licensed a customized software tool, which we call TempusPRO, that helps track patient reported outcomes, which we integrate into Hub. Patients use the mobile application to complete regular and systematic check-ins, while providers use the tool to view clinical reports and review the patient reported information. We have developed this application to empower providers to make data-driven, personalized treatment decisions, as well as collect outcome measurements on a regular, longitudinal basis in an effort to build one of the largest real-world multimodal datasets in psychiatry.

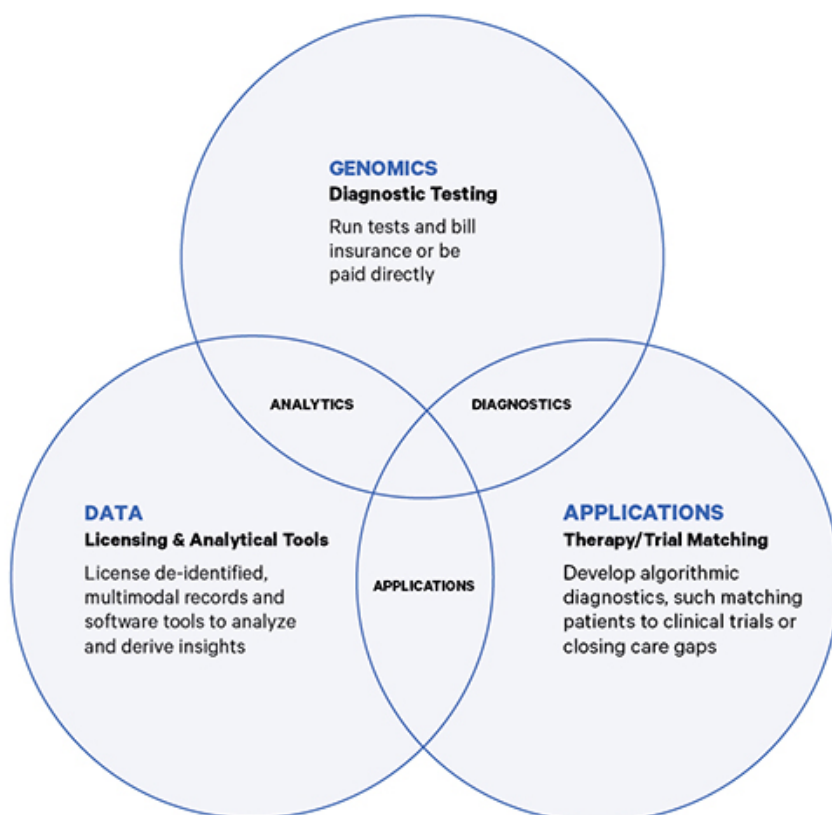
Our Three Product Lines

Our products are organized under three product lines, with each product line designed to enable and enhance the others, thereby creating network effects in the markets in which we operate. Our Genomics product line provides a broad range of diagnostic testing services to healthcare providers. Our Data and Services product line monetizes de-identified data that we collect and facilitates enrollment in clinical trials, and which at scale has allowed us to provide a series of data related services to our life sciences customers, such as clinical trial matching. Our AI Applications product line leverages our database to provide diagnostics entirely driven by data, which helps route patients to the optimal therapy and advance research more broadly. Our three product lines and their corresponding product offerings are illustrated in the diagram below:

Tempus' three product lines

We started in cancer bringing AI to diagnostics through the real-time personalization of genomic tests.

Our Platform supports our three product lines, with each designed to enable and enhance the others, thereby translating the network effects of our technology into the markets in which we operate and allowing us to monetize our products, and the resulting data we collect, in multiple ways.

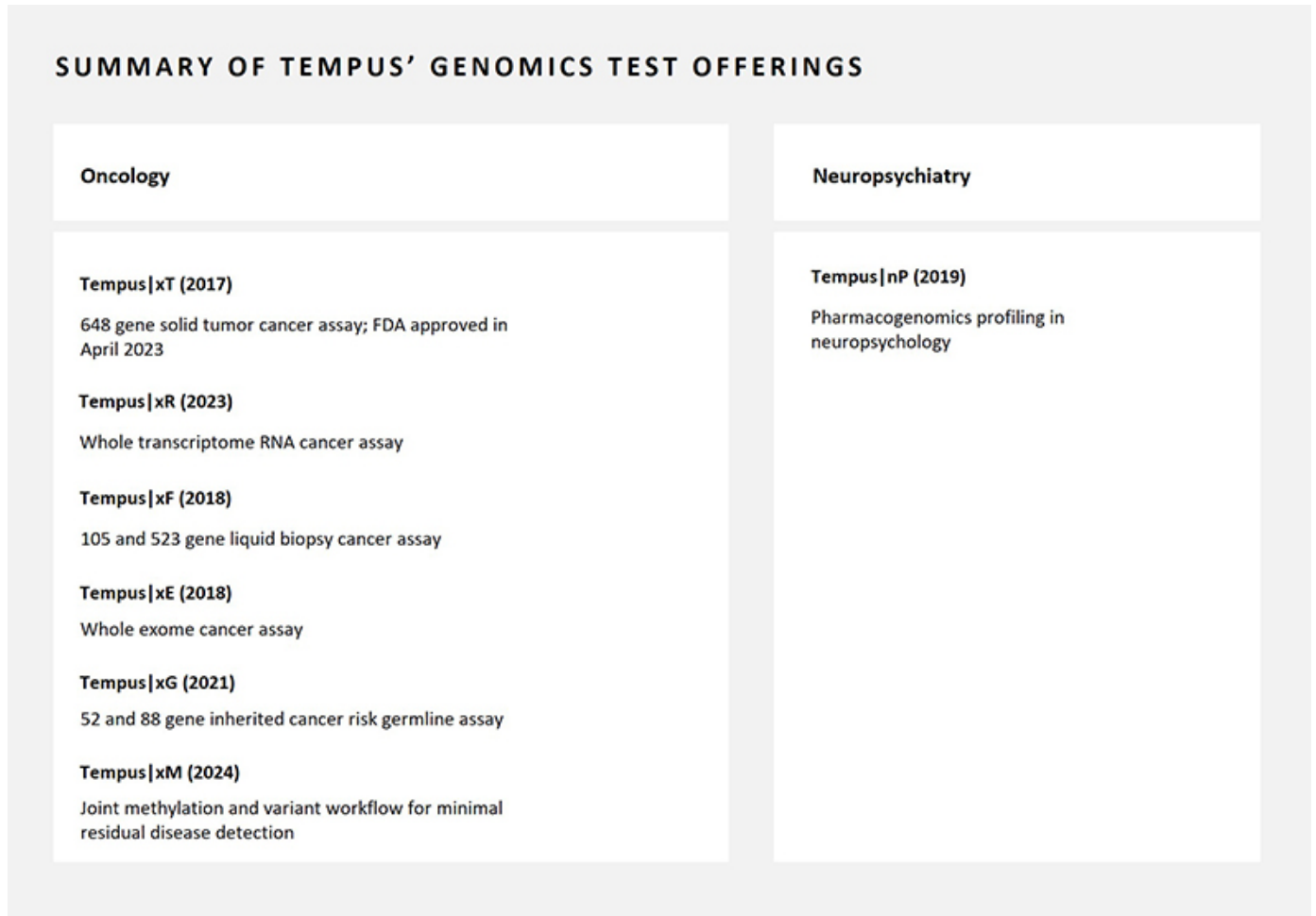


We believe the interrelated nature of our three product lines is unique. Our business model allows our clients to unlock value from our data, and allows us to monetize that data (in de-identified format), in different ways across our different product lines. We believe these network effects and the compounding impact on the value of each data record in our database enhance our competitive advantage. The more data we collect, the smarter our tests become, the more applications we can launch, the more physicians join our network, further growing our database, making our tests smarter for clinicians and our database more valuable for researchers.

Genomics

We launched our Genomics product line to provide a comprehensive suite of Intelligent Diagnostics to healthcare providers, and to generate a steady stream of molecular data to help fuel growth in our Data and AI Applications product lines. As we run more tests through our laboratories, and as those tests are linked to patient records and clinical outcomes, we grow our data assets and leverage them across our other product lines. We operate three laboratories that provide NGS diagnostics, PCR profiling, and other anatomic and molecular pathology tests. We have broad capabilities across genomic, transcriptomic, proteomic, microbiomic, epigenetic, and methylation-based assays, and our laboratory infrastructure allows us to operate as a high-quality, low-cost NGS provider broadly serving the market. However, unlike other laboratory diagnostic testing providers, many of our tests are connected to clinical data, in some manner, which allows our suite of tests to be self-learning, becoming more accurate and precise with each new test that we run. Furthermore, rather than providing a result based on a single data modality, such as a DNA mutation, our Platform leverages data from other modalities and other patients in an effort to be more comprehensive.

We are generally paid for our Genomics services by billing insurance companies, or patients directly, who reimburse us for the tests we run, or by billing providers or pharmaceutical companies directly. The following diagram represents a summary of our test offerings as of March 31, 2024:



[Table of Contents](#)

Our Oncology Tests

Our Platform's first application was in oncology, where we have built a versatile portfolio of cancer tests spanning solid tumors and hematologic malignancies, germline and somatic variants, and tissue and liquid biopsies. Since our inception, our approach to precision oncology has been to provide comprehensive genomic profiling through NGS that enables us to both generate clinically relevant insights that may not be possible with narrower testing approaches, and contribute high-quality molecular information back to providers and to our database. We offer large-panel solid tumor and hematologic testing through multiple assays, with our core clinical assay (xT and xR) offering large panel DNA, RNA full transcriptome, and incidental germline findings through normal blood or saliva analyses. Our current offerings also include liquid biopsy (xF), whole exome (xE), and hereditary cancer risk (xG). We are also currently validating a treatment response monitoring assay. Our oncology tests are differentiated not only because of their breadth, but also because in many cases they are connected to clinical data, which allows us to account for the drugs the patient took historically, how they responded, and for which clinical trials they are actually eligible. We endeavor to not recommend drugs for which a patient has been previously prescribed in a prior line of therapy and failed, and not recommend clinical trials they are not eligible to participate in, based on the inclusion or exclusion criteria of the trial. The following table lists our current oncology test offerings:

<u>Lab Tests</u>	<u>Launch Year</u>	<u>Description</u>
Oncology tests		
Tempus xT	2017	<ul style="list-style-type: none">• Designed to detect actionable oncologic targets by sequencing tumor tissue samples• Typically associated with incidental germline testing for matched normal saliva or blood samples, when available• Fourth generation test that covers 648 genes at 500x coverage spanning approximately 3.6 Mb of genomic space• Includes full TCR, BCR, and HLA typing for immuno-oncology, or IO, signatures• Detects TMB, MSI, and fusions• The test has an approximately 10-day quoted turnaround time.• In our analytical validation, we demonstrated sensitivities >98% for SNVs, >92% for rearrangements / fusions, >92% for CNVs and indels, and 99.9% for MSI.• Premarket approval (PMA) obtained from the FDA in April 2023
Tempus xE	2018	<ul style="list-style-type: none">• A whole exome cancer assay designed to identify actionable oncologic variants as well as neoantigens across the exome from tissue samples, thus enabling IO applications• Run at ~150-250x median coverage for approximately 650 of the most significant onco-driving mutations and ~150-200x median coverage for more than 19,000 genes on the panel• Detects TMB, MSI, and fusions

[Table of Contents](#)

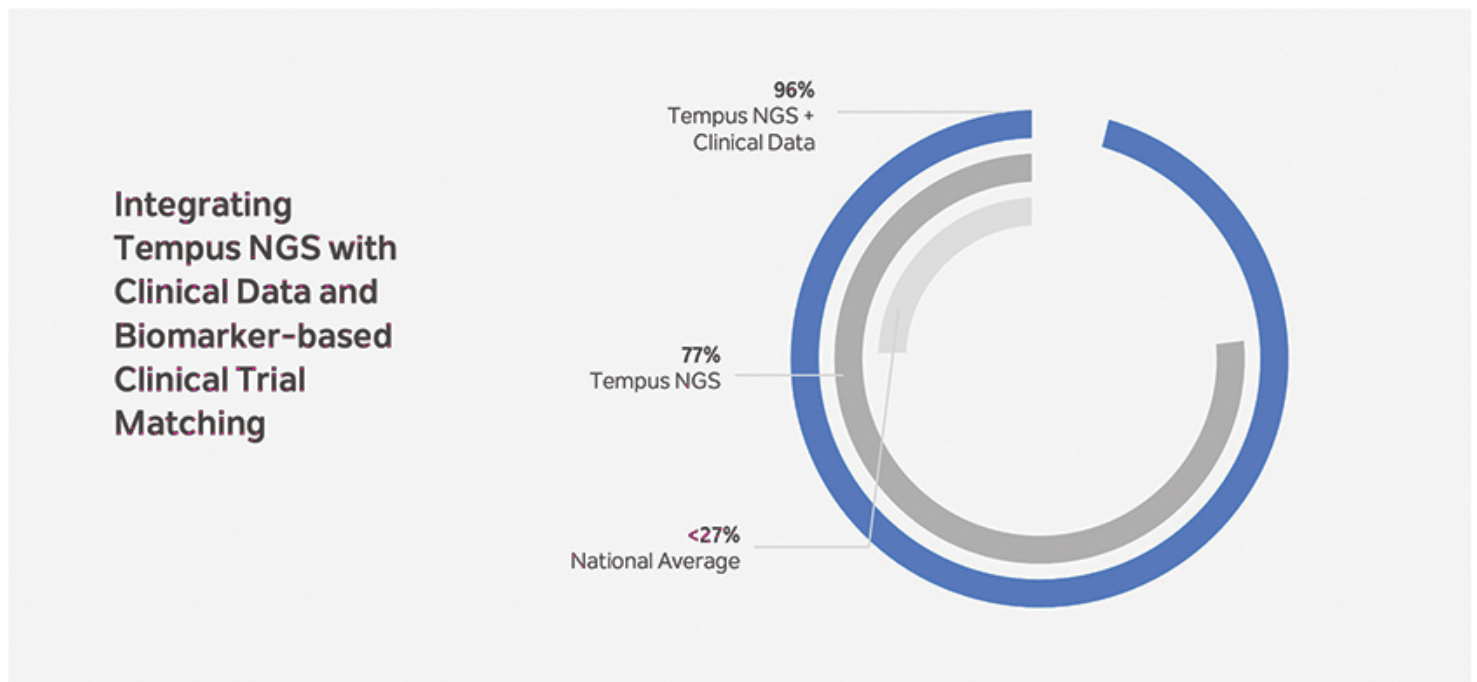
<u>Lab Tests</u>	<u>Launch Year</u>	<u>Description</u>
Tempus xF	2018	<ul style="list-style-type: none">• Next-generation liquid biopsy assay covering 105 genes at approximately 20,000x coverage from peripheral blood samples for solid tumors• Typically used for oncogenic and resistance mutations that can be detected in cell free DNA, or cfDNA, from a peripheral blood draw• In our analytical validation, for 0.5% VAF and 30ng of DNA, we demonstrated >99.9% sensitivity for SNVs, 98.8% for indels, >99.9% for CNVs, and 97.4% for rearrangements and fusions. xF also demonstrated 100% sensitivity concordance with Roche AVENIO ctDNA Expanded Kit for indels, CNVs, and rearrangements. We also demonstrated >99.9% specificity for SNVs, indels, and fusions, and 96.2% specificity for CNVs• The xF+ version is a 523 gene panel that includes bTMB, MSI, additional fusions and CNVs
Tempus xG	2021	<ul style="list-style-type: none">• 52 gene inherited cancer germline panel run off whole exome platform at 75x depth of coverage• Tests hereditary predisposition across common and well-described cancer syndromes such as breast, ovarian, prostate cancer (<i>BRCA1</i>, <i>BRCA2</i>), pancreatic cancer (<i>CDKN2A</i>, <i>PALB2</i>), colorectal cancer (<i>APC</i>, <i>BMPRIA</i>), and Lynch Syndrome (<i>MLH1</i>, <i>MSH2</i>, <i>MSH6</i>, <i>PMS2</i>, <i>EPCAM</i>)• Typically used in patients with a personal and / or family history suggestive of hereditary predisposition to cancer and can guide future diagnostic decisions• The xG+ version is an 88 gene panel covering genes associated with both common and rare hereditary cancers
Tempus xR	2023	<ul style="list-style-type: none">• Full transcriptomic profiling assay for solid tumors and hematologic malignancies at 50 million paired end reads, offered as a separate test as of January 2023 (previous paired with xT and xE)• Reports clinically relevant fusions for more than 100 targeted genes, as well as altered splicing events for MET exon 14 and EGFRvIII, in an unbiased and comprehensive manner• 43.4% of patients were matched to a targeted therapy when DNA seq, RNA seq, and immune biomarker assessment were combined, compared to 29.6% of patients who had a therapy match using DNA seq alone

[Table of Contents](#)

<u>Lab Tests</u>	<u>Launch Year</u>	<u>Description</u>
		<ul style="list-style-type: none">• Among patients with identified fusions, 29% more patients were identified with a unique clinically actionable fusion that could be matched to a targeted therapy when RNA seq was incorporated, compared to DNA seq alone• The test has an approximately 10-day quoted turnaround time

We launched xM, a high coverage methylation sequencing assay for monitoring for cancer recurrence and minimal residual disease on June 1, 2024, initially covering colorectal cancer with the potential to expand into additional indications. In November 2023, we entered into a Commercialization and Reference Laboratory Agreement with Personalis, Inc., or Personalis, pursuant to which we began marketing Personalis' Personal Dx test in the United States initially in non-small cell lung cancer and breast cancer, as well as IO treatment response monitoring. Personalis will conduct additional development activities to further analytically validate the test in other indications. Personalis will perform tests ordered by patients through us and will bill such patients or payors.

We believe incorporating clinical data in our diagnostic tests has widespread benefits. For example, combining clinical and molecular data resulted in improved therapy matching for patients in a study that we conducted, the results of which were published in Nature Bio in September 2019. In that study, using our sequencing results and matched clinical data from 500 patient samples across a range of tumor types, we observed that 96% of patients could be matched to at least one clinical trial. Approximately 77% of patients were matched to at least one clinical trial based on a gene variant. Of the patients who were not matched to a biomarker-based clinical trial, 19.4% were matched to at least one disease-based clinical trial from clinical data alone.

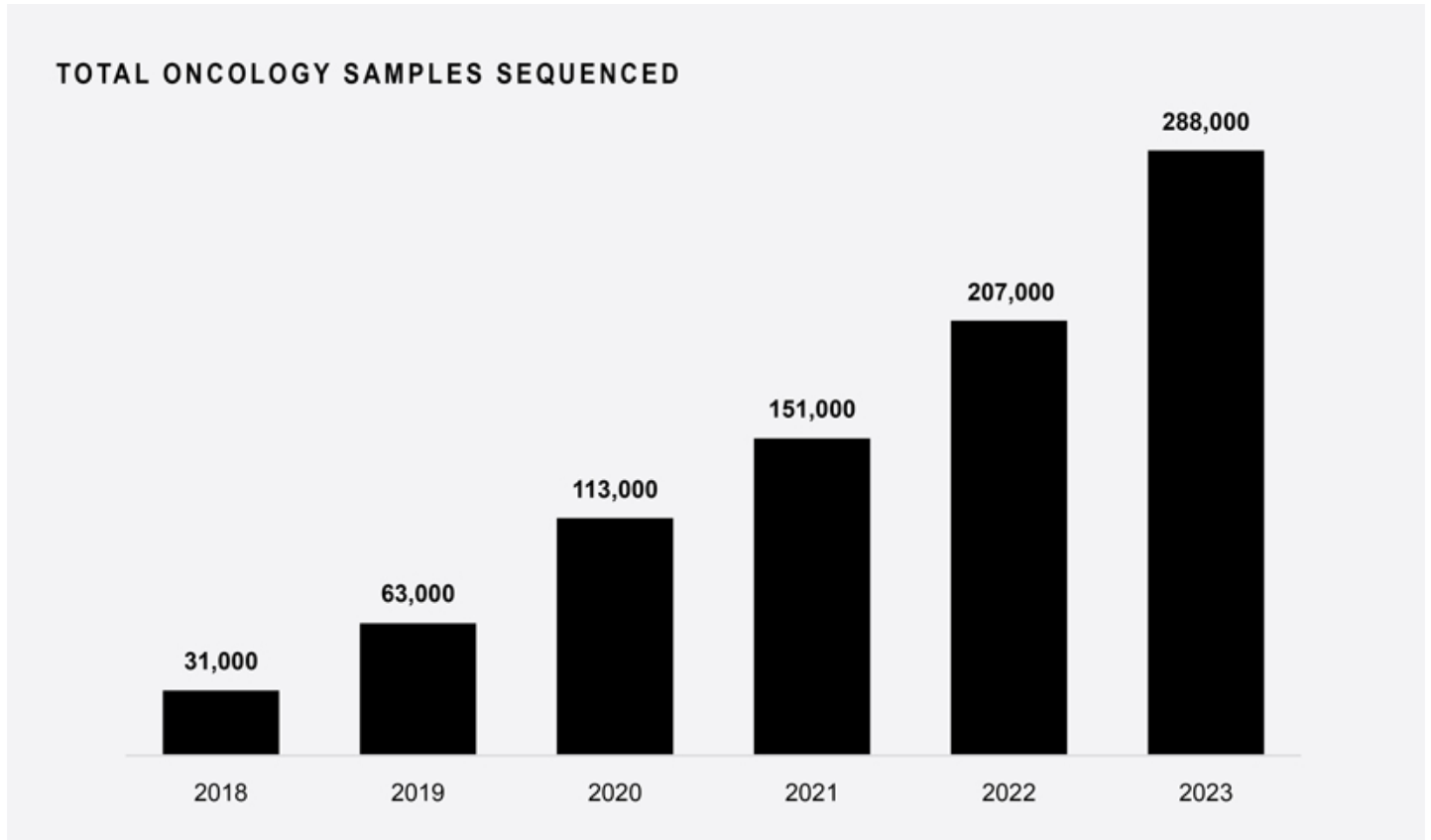


The results of the Nature Bio study indicated that paired tumor-normal DNA-seq and RNA profiling of patient cancer biopsies yielded high match rates to targeted therapies and clinical trials, and also underscored the value of integrating and contextualizing clinical and molecular data to provide physicians with distilled information regarding their patients' disease and potentially actionable characteristics. In sum, our Platform demonstrated an ability to help maximize personalized therapeutic options for a broader proportion of patients with cancer, which typically cannot be attained through smaller tumor-only DNA-seq panels.

[Table of Contents](#)

In addition, in a paper we published in *Nature Precision Oncology* in July 2021, we highlighted the benefits of performing both solid tumor and liquid biopsy profiling. We observed that the concordance of the results of tissue sequencing and liquid testing, even when concurrently profiled, was approximately 70% at most, with both liquid testing and tissue sequencing missing a selected number of potentially actionable mutations. Yet when both are performed, as Tempus often does, the coverage of potentially actionable mutations increases.

We believe the market is recognizing the value of our products and their benefits, as they relate to sequencing both somatic and germline variants, running both solid tumor and liquid biopsies, broadly sequencing RNA in addition to DNA, making available raw files and structured clinical data, and matching the results to clinical data for the patient sequenced. As a result, our clinical volume in oncology rose from approximately 31,000 samples sequenced in 2018 to approximately 288,000 samples in 2023.



Our Neuropsychiatry Tests

We entered neuropsychiatry in 2019. We currently offer our proprietary nP assay for pharmacogenomic testing for patients with psychiatric conditions, such as depression, general anxiety disorder, bipolar disorder, and other relevant diagnoses. Despite the growing prevalence of depression and anxiety, their treatment remains largely the same as it has been for decades. Today, there are dozens of antidepressants that are often prescribed based on trial and error, where psychiatrists alter the dose and class of medications when one fails to work. The difficulties in prescribing medications leads many patients to take the wrong medications, in the wrong dose. Emerging evidence demonstrates that there are molecular mechanisms that suggest one drug, or class of drugs, may work better than another based on the genetic profile of the patient, and our assay is designed to elucidate these differences. The following table describes our nP assay.

Neuropsychiatry Test

Tempus nP	2019	<ul style="list-style-type: none">• Pharmacogenomic profiling for patients with psychiatric conditions; primarily used for depression• Covers 13 validated genes with known roles in pharmacokinetics, pharmacodynamics, and immune response to FDA approved medications that may be prescribed in the neuropsychiatric space• Uses matrix-assisted laser desorption ionization-time of flight (MALDI-TOF) mass spectrometry to analyze 80 single nucleotide and small insertion-deletion (indel) variants in the 13 genes. Concurrently, DNA fragment analysis is used to analyze copy number variants in CYP2D6 and a large indel in the SLC6A4 promoter
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In an effort to bring AI to this field, we are not only performing pharmacogenomic profiling, we also regularly collect two additional data modalities: (i) time on therapy data from the patient’s EHR (or directly from the ordering physician), and (ii) patient reported outcome, or PRO, data through our TempusPRO mobile application.

TempusPRO is our patient-facing mobile application that collects PRO measurements on a longitudinal basis. We are also capturing passive lifestyle measurements through mobile sensory devices, such as daily steps and minutes spent exercising. These measurements serve as a quantitative, unbiased backbone to the more qualitative and subjective measures that are commonplace in psychiatry. As we continue to advance the field of psychiatric medicine, we believe our Platform is well suited to extend to additional neurological conditions beyond depression, anxiety, and bipolar disorder.

Our Infectious Disease Tests

We expanded into infectious diseases in 2020 due to the onset of the COVID-19 pandemic and launched PCR and NGS tests to detect the rapidly spreading virus. Our laboratory testing infrastructure and our relationships with a broad customer base enabled us to rapidly scale operations and deliver approximately 2.8 million COVID-19 clinical tests through March 31, 2023, after which we stopped offering such tests. We entered into clinical testing agreements with various clients, including pharmacies, urgent care centers, state departments of health, primary care providers, universities and schools, and corporate clients.

As COVID-19 testing has materially decreased in the United States in light of the broadly distributed vaccines and changes in CDC guidance as to whom should be tested, we have shifted resources away from COVID-19 testing and stopped offering COVID-19 PCR diagnostic tests in the first quarter of 2023. As such, we are focusing our efforts on other infectious diseases areas and on broader respiratory pathogen testing.

Data and Services

Our Data and Services product line facilitates drug discovery and development for life sciences companies through two primary products: Insights and Trials. We also maintain a growing tumor-derived biological modeling (or organoid) laboratory, which allows us to provide modeling and screening services to our pharmaceutical and biotech clients.

One way we measure our data business is based on the remaining total contract value (the “Remaining TCV”) that is contractually committed to be delivered in the future. As of December 31, 2023, we have signed contracts with a Remaining TCV of more than \$920.0 million, which includes approximately \$300.0 million in

[Table of Contents](#)

additional potential future contractual opt-ins. Remaining TCV is equal to the total potential value of signed contracts and assumes the exercise of all contract options, all discretionary opt-ins, and no early termination. Remaining TCV includes the total potential value of the company's strategic collaborations with AstraZeneca and GSK, which, although listed under the Data and Services product line, could be satisfied by the purchase of any of the company's products and services. Remaining TCV excludes any revenue recognized to date on these contracts or any future adjustments made to the contractual value as a result of amendments or terminations. Our agreements contain termination clauses, including the ability of our counterparty to terminate for convenience, and there can be no guarantee that contracts will not be terminated, that contractual options and discretionary opt-ins will be exercised, or that we will achieve the full amount of potential revenue represented by these contracts. Remaining TCV is not a calculation of revenue and should be viewed independently of revenue and deferred revenue, as Remaining TCV is not intended to be combined with or replace these items. Similarly, Remaining TCV is not a forecast of future revenue, which can be impacted by, among other things, contract start and end dates, our ability to meet performance obligations, and the exercise of contractual options or termination rights. Moreover, Remaining TCV may differ from similarly titled metrics presented by other companies and may not be comparable to such other metrics.

Insights

Historically, the primary means for pharmaceutical and biotechnology companies to build a dataset for drug discovery and development was to run a preclinical study or clinical trial, and to leverage limited datasets such as medical claims data. We believe Tempus is changing the existing paradigm. We launched our Insights product to allow researchers to access large amounts of multimodal healthcare data that historically did not exist at scale in a single consolidated database. We have amassed a large connected dataset, which we organize in near-real time across multiple modalities and multiple disease areas, allowing us to work with pharmaceutical and biotechnology companies across the drug lifecycle—from discovery, research and development, and, ultimately, commercialization.

For our Insights offering, we license libraries of linked, de-identified clinical, molecular, and imaging data, and provide a suite of analytic and cloud-and-compute tools for discovery, research, development, and other commercial purposes. Our primary customers are pharmaceutical and biotechnology companies. These customers either pay us on a per file basis or through multi-year data licensing agreements to use our de-identified patient database. We currently work with 19 of the 20 largest public pharmaceutical companies based on 2023 revenue.

We believe we offer a unique value proposition to the industry as a cost-effective source of high-quality and comprehensive data on targeted patient populations. Our data is useful across the oncology drug development value chain, and our biotechnology and pharmaceutical customers are using the data to inform decisions in a variety of discovery and development applications, selected below. One metric that illustrates the utility of our data to our customers is "Net Revenue Retention." Net Revenue Retention compares the annual Insights product revenue generated from all customers that made an Insights purchase in one year to the annual Insights product revenue generated from the same cohort of customers in the subsequent year. Net Revenue Retention is not a calculation of revenue and should be viewed independently of revenue and deferred revenue, as Net Revenue Retention is not intended to be combined with or replace these items. Similarly, Net Revenue Retention is not a forecast of future revenue. Moreover, Net Revenue Retention may differ from similarly titled metrics presented by other companies and may not be comparable to such other metrics. For the year ended December 31, 2023, Net Revenue Retention was approximately 125% compared to the same cohort of customers for the period ended December 31, 2022.

SELECTED DATA APPLICATIONS

Biomarker Discovery	Clinical Development	Commercialization
Select indications based on biomarker expression Discover novel biomarkers with RNA pathway enrichment scores	Identify combination therapies by correlating response to biomarker status Assess trial feasibility by analyzing impact of inclusion/exclusion criteria	Identify patient populations via assessment of the mutational landscape Identify prognostic indicators with treatment & outcomes data

To illustrate an example of how our data can be applied, in December 2020, we published a peer-reviewed study in ScienceDirect in which we analyzed longitudinal real-world data, or RWD, from a large cohort of patients with breast cancer (n = 4,000) to test whether results were consistent with previous clinical studies and to demonstrate the real-world evidence validity of our database. We also evaluated whole-transcriptome sequencing as a complementary diagnostic tool (n = 400). The conclusions of the study demonstrated that our database mirrored the overall population of patients with breast cancer in the United States, and that near real-time, RWD analyses are feasible in a large, highly heterogeneous database. Furthermore, the study demonstrated that molecular data may aid deficiencies and discrepancies observed from breast cancer clinical RWD.

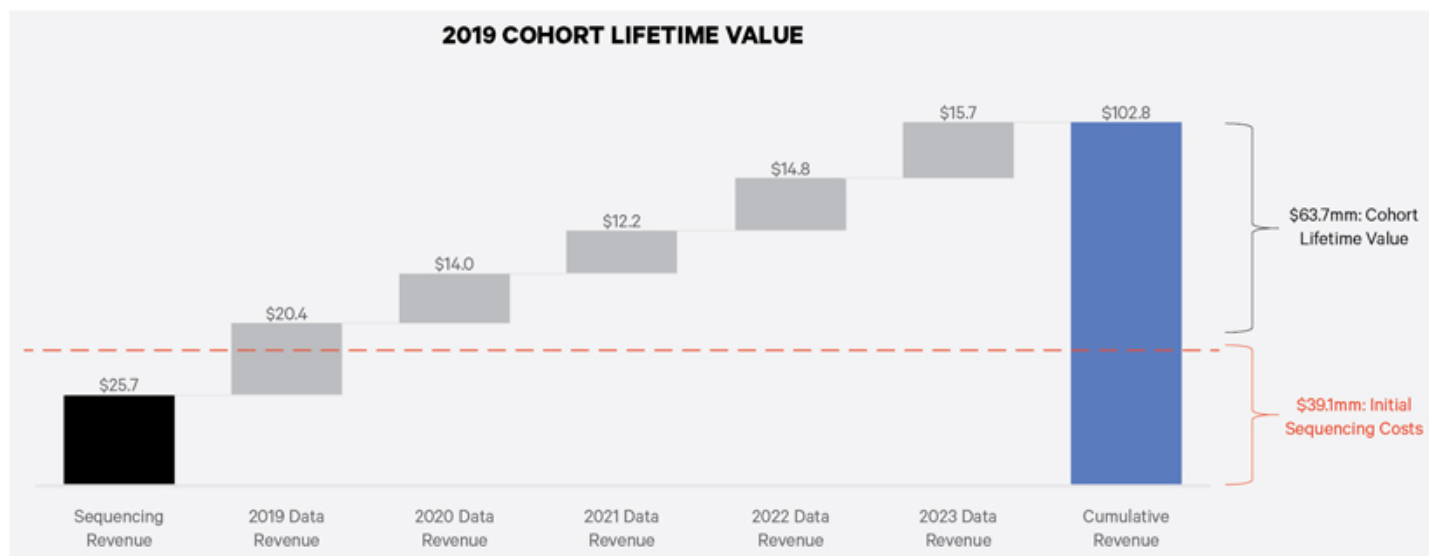
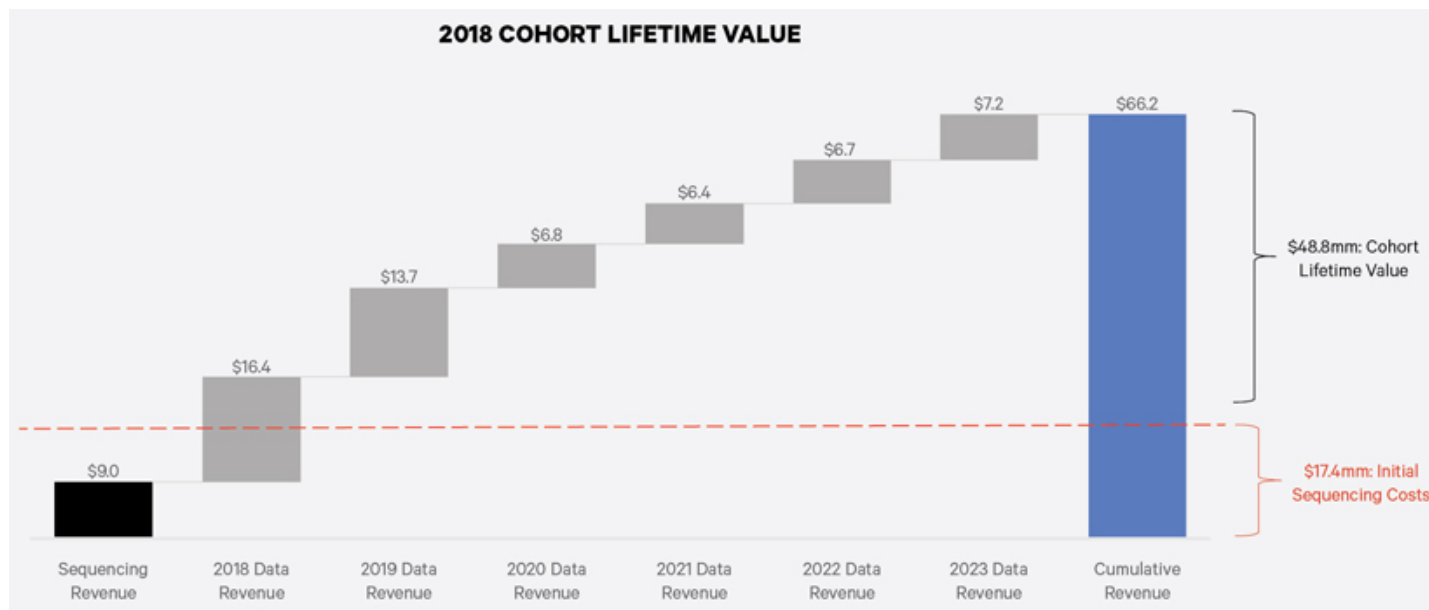
Because many of our data profiles regularly update with clinical outcome and response data over time, the utility of a single de-identified record may increase over time. As such, the files we generate by sequencing a patient, when connected to clinical data, are valuable to pharmaceutical and biotechnology companies, as they not only allow users to gain molecular insight into what is happening among cohorts of patients, but they also allow users to track those cohorts over time. As a result, our files behave as if they have a “lifetime value” that has the potential to increase over time, in a manner similar to a content company where you pay to create content and then monetize the content over time as people subscribe to access the content.

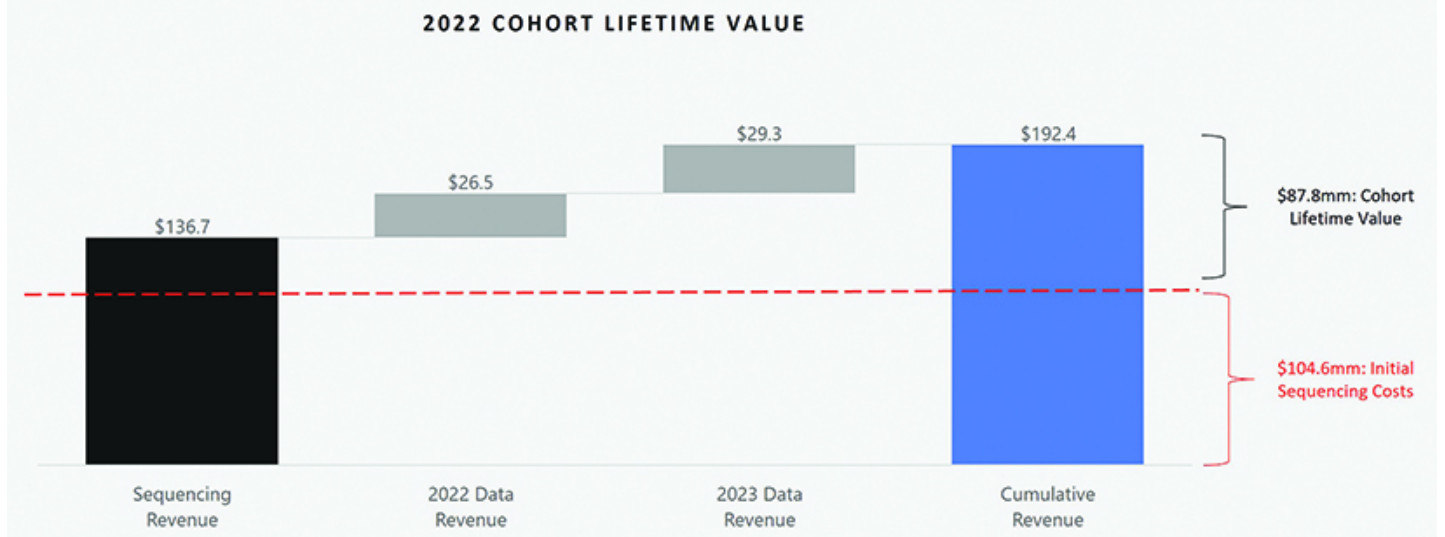
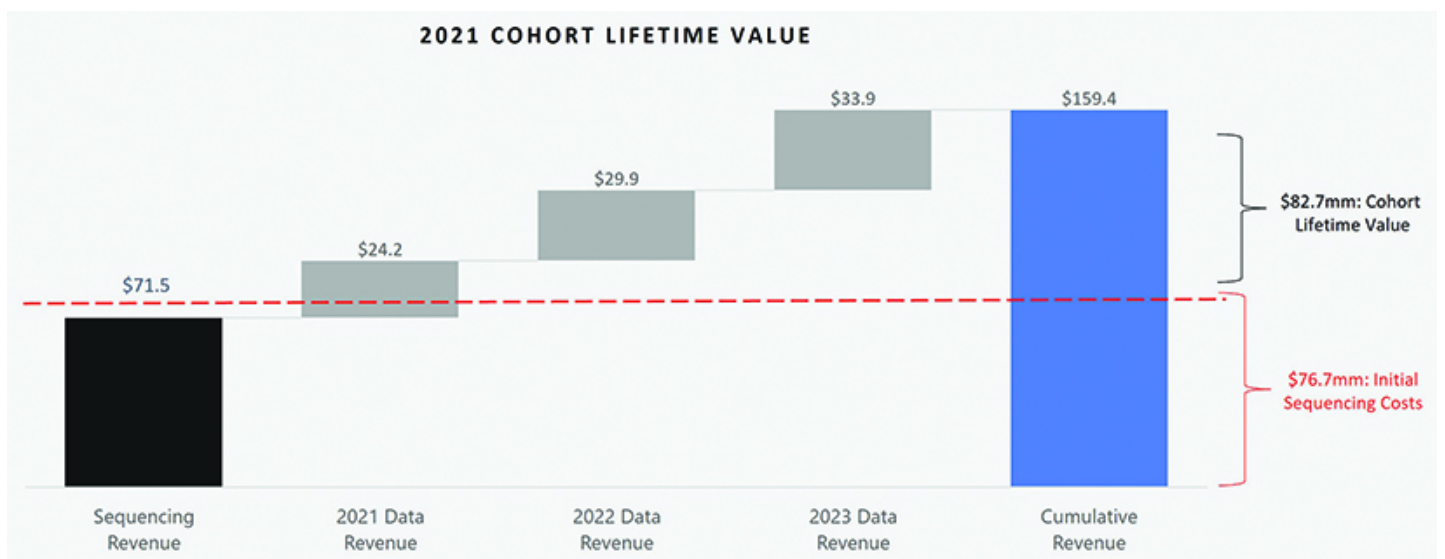
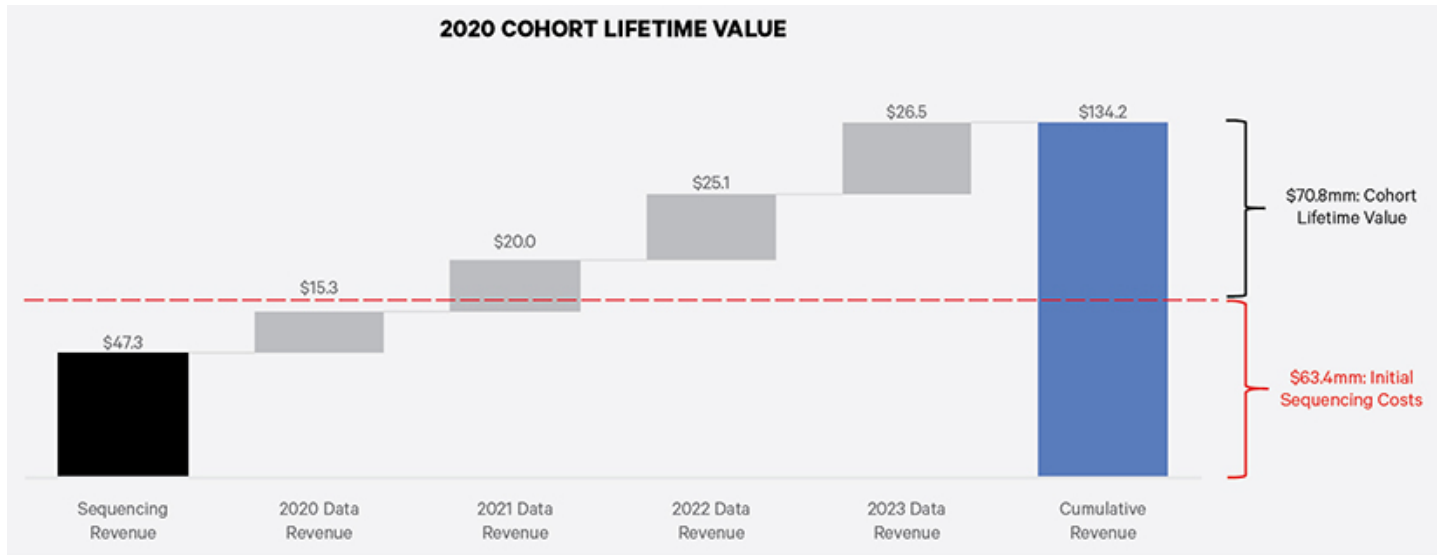
To illustrate one of the ways that our business model differs from traditional diagnostics companies, we present below the “Cohort Lifetime Value” derived from records in our de-identified dataset based on the year of data generation. We define “Cohort Lifetime Value” as the cumulative revenue attributable to a specific cohort of de-identified records, including revenue derived both from the initial sequencing (Genomics) and licensing and related services (Data and services), less the initial sequencing costs incurred to generate the data ultimately licensed. Sequencing revenue is a component of genomics revenue in our Consolidated Statement of Operations and differs from total genomics revenue due to other components, including COVID-19 PCR testing and other lab services unrelated to our data business. Data and services revenue is a component of data and services revenue in our Consolidated Statement of Operations and represents the revenues recognized in each period attributable to each cohort. Initial sequencing costs are a component of cost of revenue, genomics in our Consolidated Statement of Operations and include laboratory personnel compensation and benefits, as well as the cost of laboratory supplies and consumables, depreciation of laboratory equipment, shipping costs, and certain allocated overhead expenses. Total initial sequencing costs differ from total cost of revenues, genomics due to other components, including costs associated with COVID-19 PCR testing and other lab services unrelated to our data business. Notably, “Cohort Lifetime Value” does not include costs reported as cost of revenues, data and services in the Consolidated Statement of Operations. Cost of revenues, data and services were \$40.2 million and \$56.5 million for the years ended December 31, 2022 and 2023, respectively. These costs represented 32.8% and 33.5% of data and services revenue for the years ended December 31, 2022 and 2023, respectively.

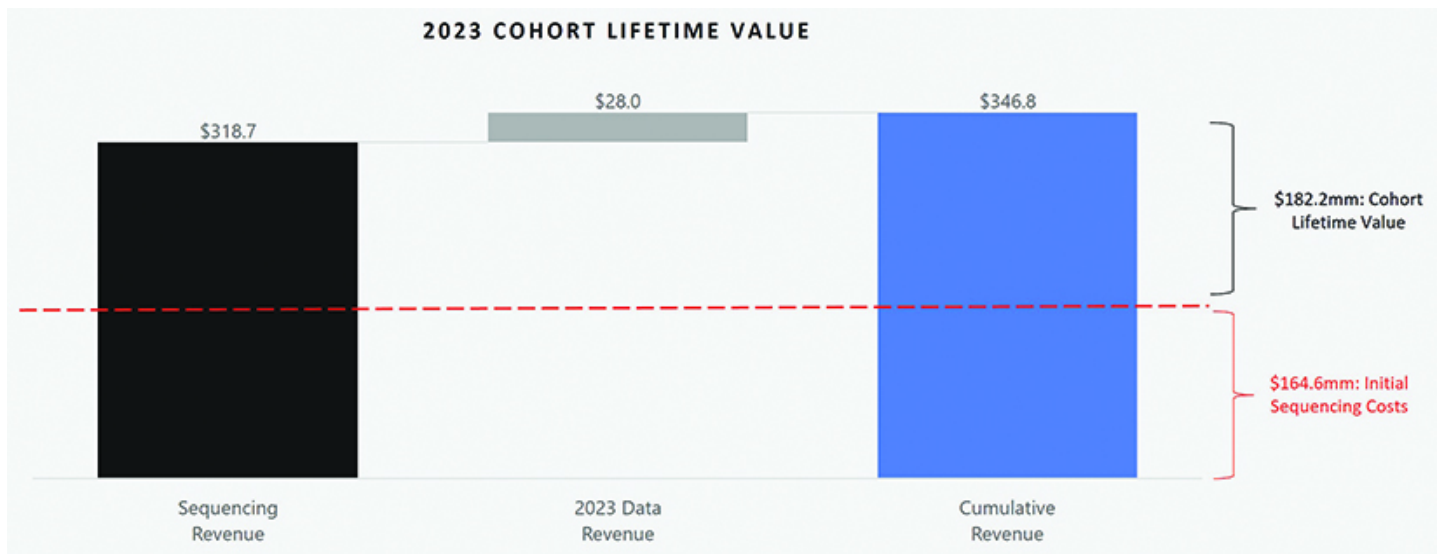
[Table of Contents](#)

In 2018, the first full year that we operated a laboratory, we sequenced samples from approximately 7,500 patients. From that 2018 cohort of sequenced patients, through December 31, 2023, we generated \$66.2 million of combined revenue from sequencing, data licensing of de-identified data derived from those records, analytical services, and clinical trials matching, which is approximately 7.4 times the revenue we received from sequencing of that cohort in the initial year. The total cost to sequence the 2018 cohort was \$17.4 million, of which \$9.0 million was covered by reimbursement for the corresponding sequencing tests. We then generated \$16.4 million of data revenue from that cohort in 2018, finishing the year with a “Cohort Lifetime Value” of \$8.0 million. As more customers licensed de-identified records from the 2018 cohort in subsequent years, we generated additional revenue in 2019 to 2023 from the 2018 cohort, and as of December 31, 2023, the 2018 “Cohort Lifetime Value” was \$48.8 million. We experienced similar trends for the 2019 to 2023 cohorts. As of December 31, 2023, the 2019 “Cohort Lifetime Value” was \$63.7 million, the 2020 “Cohort Lifetime Value” was \$70.8 million, the 2021 “Cohort Lifetime Value” was \$82.7 million, the 2022 “Cohort Lifetime Value” was \$87.8 million, and the 2023 “Cohort Lifetime Value” was \$182.2 million in its first year of existence.

“Cohort Lifetime Value” for the 2018 to 2023 data cohorts is illustrated in the graphs below.





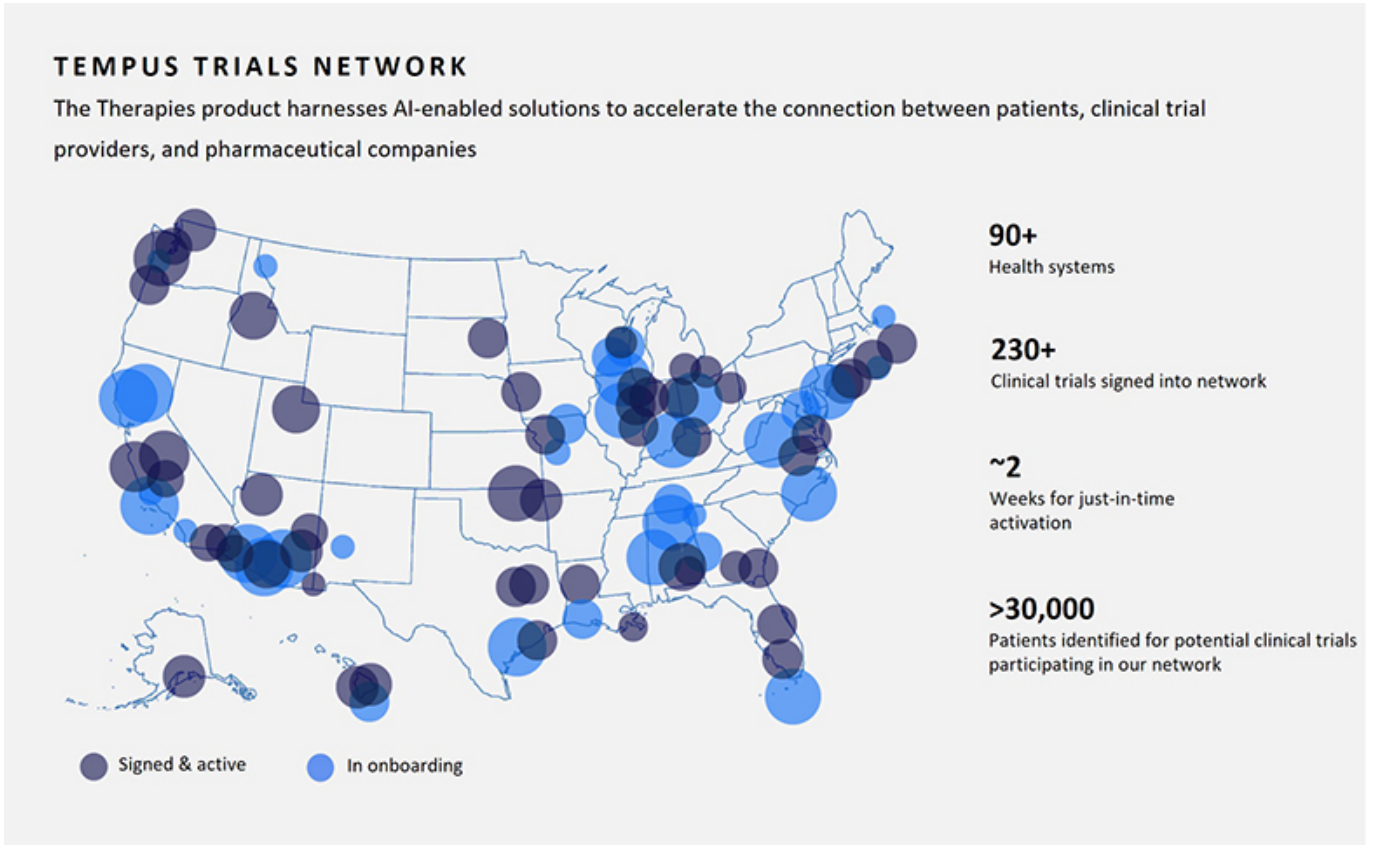


Trials

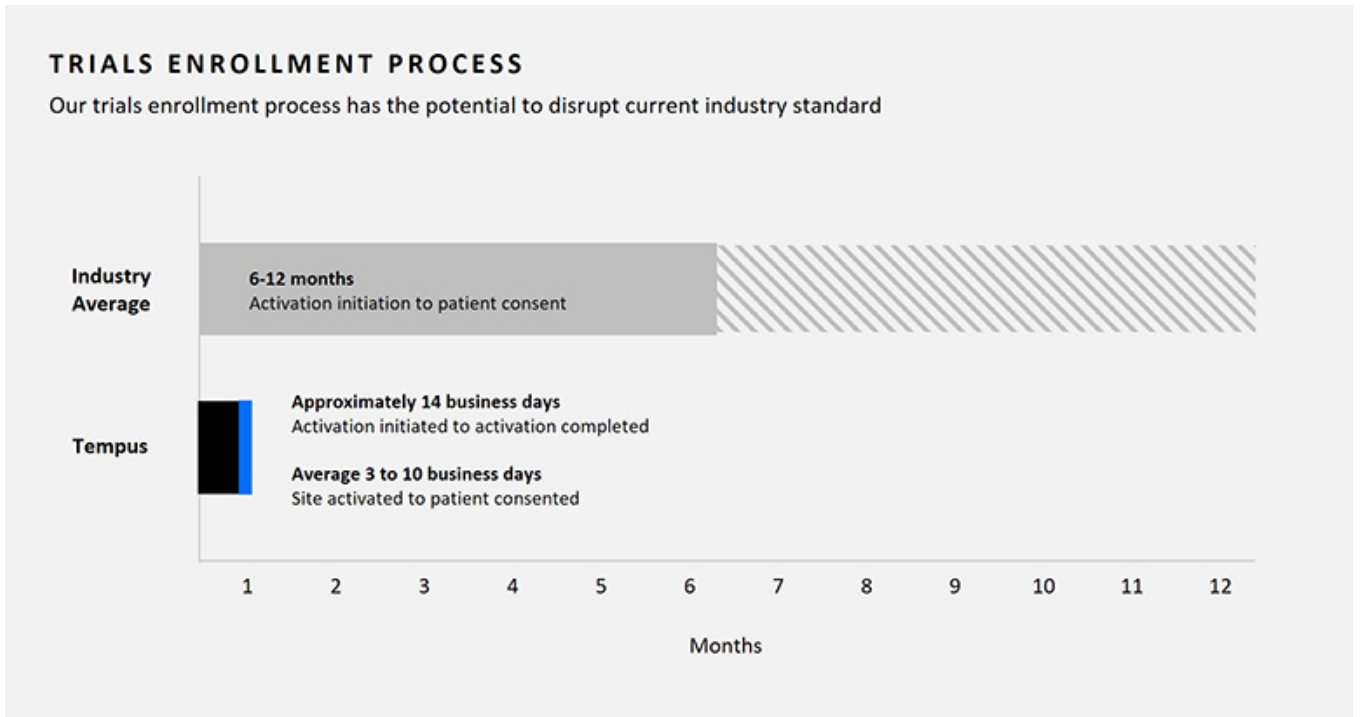
Trials is our second offering within our Data and Services product line and leverages our broad network of physicians we work with in oncology to provide clinical trial matching services for pharmaceutical companies trying to reach hard-to-find and underserved patient populations. Our clinical trial matching product is built on top of our near real-time data feeds and harnesses AI to accelerate the connection between patients, clinical trial sites (hospitals) and clinical trial sponsors (life sciences companies). We empower both oncologists to help their patients find clinical trials and pharmaceutical companies to enroll patients into their trials. We generate revenue from both matching the patient to the trial (through notices we send to physicians alerting them of potential trials that are a fit for their patients), and from the patient actually enrolling in the trial.

Our Trials product is a bold initiative that we do not believe has been implemented at scale in the United States by any other organization. We are endeavoring to create a just-in-time network across a wide variety of academic medical centers and community providers, that can support hundreds or even thousands of trials, in which the administrative and logistical foundation is uniform across the entire network. This network allows us to identify a patient that is a match for a targeted trial and get that patient enrolled within days, even if the trial was not previously open at the hospital (assuming consent of the trial sponsor), anywhere in the United States. Prior to Tempus, we believe it would have been virtually impossible to even attempt to build this type of just-in-time program across oncology, as the required ingredients for success are unique to our Platform, namely: (i) a large genomic sequencing business that is widely adopted and allows for the identification of patients that are molecular matches to trials; (ii) the ability to structure clinical data for those patients in near real time to filter for inclusion and exclusion criteria; (iii) direct pipelines allowing data to be transferred to and from the laboratory and provider; and (iv) an analytic engine able to stratify patients and follow each unique patient journey ensuring that patients actually enroll in the studies.

Our clinical trial matching offering is called the TIME Trial® program, which we launched in June of 2019. Since its introduction, this program has gained significant traction with more than 230 clinical trials signed into the network. More than 30,000 patients were identified for potential enrollment into clinical trials in our network as of March 31, 2024. We believe the breadth of our network, the data to which we have near real-time access, and our relationships with oncologists enable us to offer a clinical trial matching service that has the potential to materially expand patient access to and accelerate enrollment in clinical trials in the United States.



One of the primary benefits of our Trials product is our ability to facilitate the initiation of a clinical trial in a new location in a short amount of time. Third-party research suggests that it takes 6-12 months, on average, to initiate a new trial site for an ongoing clinical trial in the United States. We have been able to substantially streamline this process by leveraging technology and introducing a standard methodology, with activation of new sites through our Trials product taking approximately two weeks on average in 2023. A comparison of our average time from site initiation to patient consent with the industry average is below:



[Table of Contents](#)

In addition to TIME, we provide other clinical trial services and conduct our own studies as part of our Trials program, all with a goal of identifying new therapies and bringing them to market more efficiently. In January 2022, we acquired Highline Consulting, LLC, a contract research organization, or CRO, which we subsequently renamed Tempus Compass, LLC, or Tempus Compass. Tempus Compass manages and executes early and late-stage clinical trials, primarily in oncology. We also partner with life sciences companies to sponsor studies of drugs, devices, and diagnostics, integrating our life science solutions to help bring new drugs to market faster. Each of the products and services within our Trials program complement each other to create a suite of integrated solutions for life sciences companies from early discovery to commercialization.

Tumor Derived Biological Modeling—Organoids

In addition to our efforts to collect vast amounts of phenotypic, morphologic, and molecular data, we have built a large, biological modeling lab that allows us to test various theories in vitro through our large repository of tumor-derived Organoids, and to perform drug screening for our various life sciences clients. Many of our Organoids are fully characterized and sequenced using our NGS panels, providing genomic and transcriptomic data for our models, allowing us to explore various hypotheses that enhance our data. Examples of hypotheses we are able to test in our Organoid lab include: (i) which therapeutics are most effective; (ii) differential levels of drug response by tumor type, genomic profile, or other targeted attributes; (iii) discovery of RNA signatures; (iv) attributes of responders and non-responders; and (v) response rates in therapy-resistant models. We work with numerous collaborators including biotechnology companies, pharmaceutical companies, academic institutions, and government labs. Since 2017, we have scaled our sample collection efforts and have received approximately 4,000 tumor samples to date.

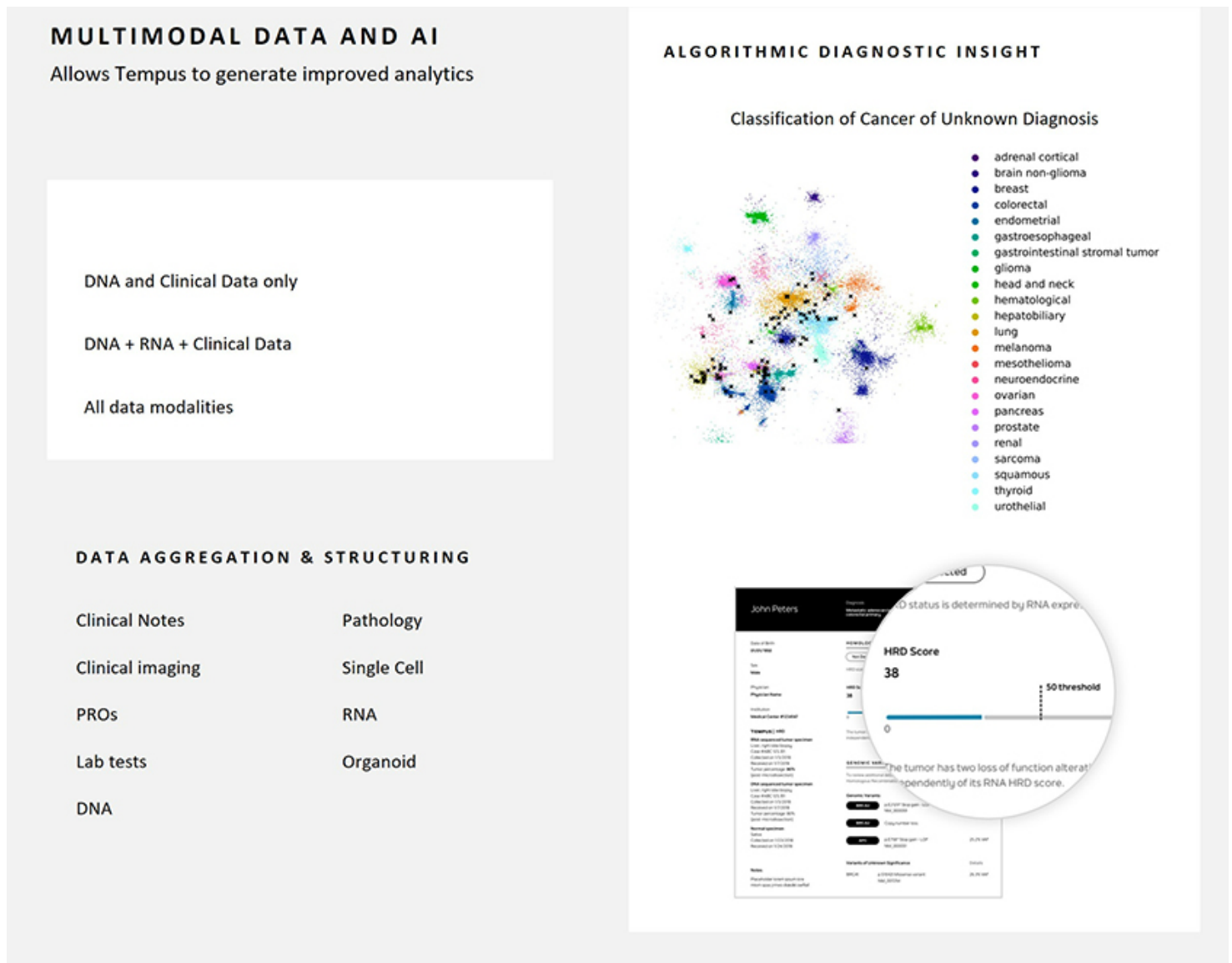
These samples cover a wide range of cancer subtypes, allowing us to work on comprehensive drug screening applications across multiple epithelial based tumor types, such as breast, lung, colorectal, and pancreatic. One of the goals of this screening is to predict a series of therapeutic responses in our Organoids and then test whether or not patients are experiencing similar responses in the clinical setting.

We view biological models as another form of data. Our efforts to grow Organoids are part of our overall strategy to leverage the best of systems biology along with the best of AI to collect the requisite data needed to produce answers broadly throughout healthcare.

AI Applications

The vastness of our dataset, along with our connected platform, creates an opportunity to use data to algorithmically diagnose and treat patients. Our third product line, AI Applications, or Algos, is focused on developing and providing diagnostics that are algorithmic in nature, implementing new software as a medical device, and building and deploying clinical decision support tools. The primary product of AI Applications is currently “Next,” an AI platform that leverages machine learning to apply an “intelligent layer” onto routinely generated data to proactively identify and minimize care gaps for oncology and cardiology patients. As this product gains adoption, we intend to leverage large language models, generative AI algorithms, and our vast database of de-identified data to develop algorithmic diagnostics designed to identify these patients earlier in their disease progression, when treatments are most effective. For example, algorithmic diagnostics that integrate multimodal data can be used to create a more accurate risk profile for patients, leading to improved outcomes and reduced cost. Our repository of multimodal data allows us to find associations and patterns that are largely invisible through a single data modality, but readily apparent when combined. In addition, we find the strength of our analytic models, and our ability to deploy them clinically, improves as we add additional datasets. While we plan to continue developing our own proprietary software and algorithms, from time to time, we also utilize open source technologies or in-license technologies from third parties.

The example diagram below represents how algorithm-based diagnostics work and the value of multimodal data as it relates to improved analytics:



Epigenetics

Algorithm-based diagnostics are already being used in healthcare, but are not widespread. For example, algorithms exist today that leverage EHR data and lab results to predict early onset of hospital-borne infections, but these tools are still in the very early stages of adoption and validation. While Algos today represent only a small proportion of the diagnostics market, we expect their adoption to grow substantially in the future. We believe Algos represent a significant long-term opportunity that may be substantially larger than our other existing product lines. We believe our ability to launch Algos at scale is a key differentiator of our Platform.

[Table of Contents](#)

Our Oncology Algos Portfolio

We believe our robust, multimodal dataset creates an opportunity for Algos that otherwise would not be possible and allows us to build AI models at scale, clinically validate them, and deploy the resulting Algos into clinical practice. We currently offer a suite of Algos in oncology, and have more in various stages of development. As of March 31, 2024, more than 58,000 molecular oncology Algos have been ordered with our various genomic assays. Most of the Algos we currently offer are part of our xR assay, and we do not bill separately for them. Some Algos will likely yield little to no reimbursement until their clinical utility is established or will be ordered separately with our existing NGS assays or diagnostics to enhance the actionable information for physicians, and some may obtain reimbursement at prevailing rates for comparable tests.

<u>Algo</u>	<u>Launch Year</u>	<u>Description</u>
Oncology		
Tumor Origin (“TO”) Test	2021	<ul style="list-style-type: none">• Predicts the site of origin for cancer patients whose primary tumor site is unknown using tumor RNA expression results• Intended use of the TO test is for cancers of unknown primary, or CUPs, and may help clinicians make more informed decisions where other clinical information like imaging and immunohistochemistry results do not provide a definitive diagnosis• Uses information from analysis of nucleic acids by NGS performed as part of a separately ordered genomic or transcriptomic test• Built using a large internal database of more than 20,000 annotated tumors with transcriptomic molecular data. By comparing the molecular profile (transcriptome) of the patient’s cancer with profiles of other cancers in our database, we can help pinpoint the origin of the patient’s cancer, potentially helping to inform the course of therapy• For the year ended December 31, 2023, ordered on approximately 10% of our solid tumor profiles
Homologous Recombination Deficiency (“HRD”) Test	2020	<ul style="list-style-type: none">• A DNA-based algorithmic test that helps identify if a patient has HRD, providing a comprehensive view into a patient’s ability to repair double-stranded DNA breaks• HRD status can be used to identify patients who may be sensitive to PARP inhibitors and/or platinum-based chemotherapy• Takes into account results from our solid tumor profiling, giving a full view into commonly mutated genes in the HR-pathway, along with a genome wide LOH score, giving a clinician a complete view of HRD status• Can be ordered across all major cancer subtypes and does not require additional tissue from the patient• Currently incorporating RNA into a second version of the algorithm, which is intended to improve prediction

[Table of Contents](#)

<u>Algo</u>	<u>Launch Year</u>	<u>Description</u>
Dihydropyrimidine Dehydrogenase Deficiency (“DPYD”) Test	2021	<ul style="list-style-type: none">• Identifies certain alterations in the <i>DPYD</i> gene, which may be associated with a patient’s potential toxicity to 5-FU/Capecitabine chemotherapy based on the associated drug labeling and guidelines from the Clinical Pharmacogenomics Implementation Consortium, or CPIC.• Provides insight into the potential likelihood of a patient developing severe or even fatal toxicity of 5-FU/Capecitabine chemotherapy by covering five SNVs in <i>DPYD</i> genes, providing a more complete patient profile. According to CPIC, 5-7% of patients test positive for DPYD deficiency and should be considered for monitoring or dose reduction.• This algorithm uses sequencing data generated as a part of a separately-ordered Tempus xT Solid Tumor + Normal test.• Tempus DPYD is available pan-cancer although it is most relevant in colorectal, breast, pancreatic and GI cancer patients who are being considered for treatment with 5-FU/Capecitabine chemotherapy.
Tempus Purist SM	2023	<ul style="list-style-type: none">• Tempus PuristSM test is an algorithm that classifies pancreatic ductal adenocarcinomas (PDAC) patients into one of two subtypes (basal-like or classical).• Patients with the basal subtype have a worse prognosis and are less likely to benefit from FOLFIRINOX therapy than classical patients.• Uses information from nucleic acids by NGS performed as part of a separately ordered genomic or transcriptomic test.• USES a k-top scoring pair (k-TSP) method (8 top scoring pairs, 16 genes in total) to assign a basal probability score. Patients with a basal probability score of ≥ 50 are categorized as basal subtype, while those with basal probability score < 50 are categorized as classical subtype.

Our Cardiology Algos

Heart disease is the leading cause of death in the United States. About 630,000 Americans die from heart disease annually, with 11.7% of American adults diagnosed with heart disease and millions of patients suffering from undiagnosed, life-threatening, yet highly treatable conditions such as AFib, cardiomyopathy, and valvular heart disease, to name a few. Tempus is working on solutions to find, diagnose, and help treat these patients earlier in order to improve patient outcomes, using routinely generated clinical data, such as data from a 12-lead ECG, a widely used and easily acquired medical test that measures the electrical activity of the heart, to screen patients who might be at high risk and help navigate them to the appropriate interventional therapy.

[Table of Contents](#)

In cardiology, we ingest multimodal data and use over 60 algorithms to identify potential care gaps and continuously monitor patient data to find at-risk patients who may be falling through a care gap unbeknownst to their physician, and automatically notify care teams of any needed follow-up or disease progression. More than 80 hospitals nationwide are currently powered by Tempus Next and more than 44,000 patients are screened per month.

We are also developing algorithmic models that aid clinicians in identifying patients at increased risk of developing atrial fibrillation, or AFib, along with a variety of other cardiac conditions. These Algos are trained using a de-identified subset from approximately 3.5 million ECGs, across more than 700,000 patients, with decades of longitudinal clinical data, including outcome and response data. The FDA granted Tempus breakthrough status for our first ECG software device, which employs a diagnostic algorithm designed to identify patients at high risk of developing AFib in certain populations (patients 40 years of age and older, without pre-existing or concurrent AFib or atrial flutter, and who are at elevated risk of stroke based on a commonly used clinical stroke risk assessment tool (i.e., CHA₂DS₂-VASc score of ≥ 4)).

<u>Algo</u>	<u>Launch Year</u>	<u>Description</u>
Cardiology		
Atrial Fibrillation Test	2023 (in clinical trial setting)	<ul style="list-style-type: none">• We have developed an algorithm designed to predict AFib from a normal ECG for certain populations.• About 3.5% of patients who receive ECGs appear not to have AFib but will develop AFib, acute coronary syndrome, or similar condition within one year. This Algo is designed to predict major cardiac trauma and stroke risk from these normal ECG results.• The Tempus AFib test received FDA breakthrough designation in March 2021 for patients 40 years of age and older, without pre-existing or concurrent AFib or atrial flutter, and who are at elevated risk of stroke based on a commonly used clinical stroke risk assessment tool (i.e., CHA₂DS₂-VASc score of ≥ 4).• We are also advancing Algos that are designed to predict aortic stenosis, and we are working on other disease areas within cardiology, such as low ejection fraction and familial hypercholesterolemia.

We are also advancing Algos that are designed to predict aortic stenosis, and we are working on other disease areas within cardiology, such as low ejection fraction and familial hypercholesterolemia. If broadly deployed, we believe these Algos could have widespread clinical applicability, increase life expectancy, and reduce the total cost of care.

In addition to algorithms based on NGS testing or in the cardiology space, we currently offer more than 50 algorithms and are continuing to develop additional algorithms derived from radiologic images and digital pathology slides. In October 2022, we acquired Arterys, Inc., a company that provides a platform to derive insights from radiologic medical images to improve diagnostic decision-making, efficiency, and productivity across multiple disease areas. We have also developed algorithms based on Immunohistochemistry, or IHC, and H&E staining, which can be used, among other things, to help identify patients who may be eligible for additional treatments or clinical trials.

Customer Case Studies: Aligning the Interests of Key Stakeholders

We designed our Platform to help unlock data from existing silos and facilitate data exchanges across healthcare providers. We believe our technological advancements, deep relationships with providers, and rapid commercial adoption demonstrate the value our Platform creates for the healthcare ecosystem. We benefit from a flywheel effect; the more data we collect, the smarter our tests become, the more applications we launch, the more physicians join our network, further growing our database, making our tests smarter for clinicians and our database more valuable for researchers.

We describe below select case studies that demonstrate the value we deliver to the healthcare ecosystem, with the ultimate goal of helping patients and improving clinical outcomes.

Healthcare Provider and Patient Case Study

Our Platform is designed to help raise the standard of care in precision medicine by enabling physicians to make real time data-driven decisions at the point of care. Physicians use our Intelligent Diagnostics, software solutions, and analytic support tools to bring clinically actionable insights to genetic analysis. We see the power of our Platform both in its widespread adoption and, most importantly, the impact it has on patients.

A 50-year old female patient was diagnosed with metastatic gastric cancer. The average life expectancy for someone with stage IV gastric cancer is less than one year, with approximately 5% of patients surviving for five years. The patient's tumor harbored a mutation in a gene indicating that Epstein-Barr virus, or EBV, was involved in the pathogenesis. The tumor mutational burden was not high, but the tumor EBV made the patient a candidate for immunotherapy. Tempus' NGS tests were used to evaluate the patient's suitability for a cancer vaccine clinical trial, and two distinct aspects of Tempus' tests led the treating physician to pursue new treatment recommendations. First, Tempus sequencing used paired tumor and normal specimens to make more accurate somatic mutation calls. Thus, Tempus' test identified neoantigens that could be targeted by the immune system, while excluding germline variants of unknown significance that the immune system would not recognize as foreign. Second, Tempus used whole transcriptome RNA sequencing data to evaluate whether the neoantigens detected from the patient's DNA were expressed in the cell. Ultimately, after evaluation for the vaccine trial, the treating physician recommended checkpoint inhibitor immunotherapy. While the patient responded well to immunotherapy, eventually side effects caused her to seek other treatment modalities. Additional testing identified a mutation downstream, which was used to match the patient into a clinical trial for an ERK inhibitor. Two other mutations indicating possible response to off-label therapies were also found, and the treating physician would be able to evaluate those therapies in the event of treatment failure.

Pharmaceutical and Biotechnology Customers: Insights Case Study

We work with pharmaceutical and biotechnology companies in a number of ways, including (i) licensing de-identified data libraries on a one-time or limited duration basis; (ii) licensing de-identified data as part of a multi-year subscription; (iii) performing sequencing services for clinical trials on a bespoke basis or as part of a companion diagnostic, or CDx, claim; (iv) growing patient derived biological models (Organoids) to allow for high-throughput drug screening; and (v) helping companies identify and enroll patients for their clinical trials. Some companies may leverage one of our products, while our relationships with others are more comprehensive.

Pharmaceutical and Biotechnology Customers: Insights Case Study

We signed a multi-year strategic collaboration agreement with AstraZeneca in 2021 to identify and validate biomarkers that would inform patient selection strategies, accelerate the development of new molecular entities, and de-risk late phase clinical trials. One component of the collaboration involves leveraging our data insights to increase the Probability of Technical Success, or PTS, of late phase clinical trials. In the pilot program that AstraZeneca and Tempus ran together, we saw an average increase in PTS per study of five percentage points.

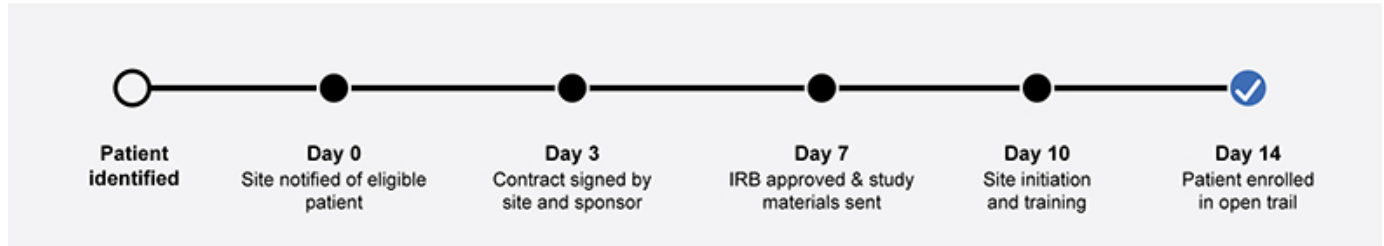
[Table of Contents](#)

After seeing these results, AstraZeneca decided to make this approach part of their governance process. Today, AstraZeneca's Oncology Phase 3 study designs are informed by RWE dataset analyses combined with Tempus analysis. The average lift in PTS exemplifies Tempus' potential as a partner to advance drug discovery, generate significant return on investment and more quickly deliver innovation to patients through the insights derived from Tempus' data. In a separate example from the collaboration, AstraZeneca leveraged our TIME network to accelerate the identification and recruitment of patients for its SERENA-6 Phase III clinical trial which has supported the recruitment of 25% of US participants, as mentioned by AstraZeneca in their 2022 annual report.

Pharmaceutical and Biotechnology Customers: Trials Case Study

We have created a dynamic marketplace for biopharmaceutical companies to leverage our data to identify eligible patients and activate appropriate sites to increase access to molecularly targeted clinical trials. We believe our offering is well suited for identifying patients for targeted trials. To detect specific mutations that may be the subject of a clinical trial, we offer solid tumor and liquid biopsy NGS panels that are able to detect specific molecular markers; however, we can also match patients tested through other sequencing companies via our direct EHR or clinical database integrations.

When we identify a patient who meets the criteria of a participating clinical trial at one of our TIME Trial® program sites, we inform the patient's treating physician of the trial and if the trial sponsor consents, we can rapidly activate the trial locally on-site. We have been able to substantially streamline the site activation process by leveraging technology and introducing a standard methodology, with Just-in-TIME activations taking approximately two weeks on average in 2023.



The TIME Trial® program has national coverage, including numerous underserved community oncology clinics, allowing us to reach cancer patients who previously did not have access to investigational therapies.

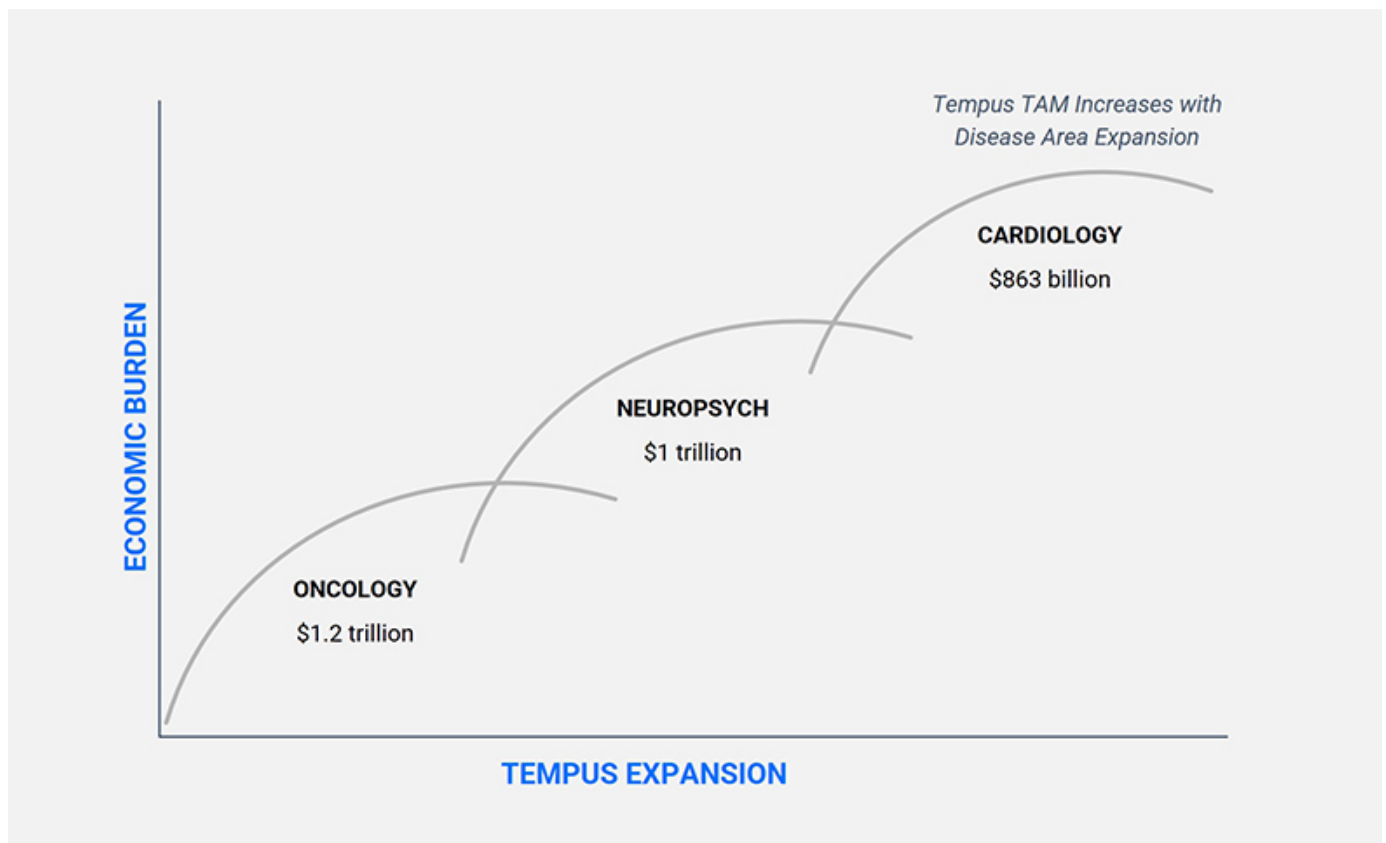
Sermonix is a powerful example of the potential for our Trials product to expand access to clinical trials and identify hard-to-reach patients. Sermonix, a pharmaceutical company focused on women's oncology, opened a biomarker-driven trial and partnered with Tempus to identify ESR1-positive breast cancer patients. According to the Tempus database of de-identified patient data, ESR1 mutations develop in approximately 14% of all breast cancers. Before engaging Tempus, Sermonix targeted enrolling 24 patients in 18 months and estimated study completion in October 2022.

After Sermonix enrolled in the Tempus TIME Trial® program, we were able to screen and enroll the first patient in September 2020, within weeks of the trial opening. Within the first month, we activated five TIME Trial® sites before the contract research organization, or CRO, with whom Sermonix was working was able to activate its first site. Ultimately, Tempus helped Sermonix activate ten new trial sites through the TIME Trial® program in an average of 16 days for each site to first consent. By comparison, it took an average of 234 days for the CRO to open each new site and achieve first consent. Tempus enrolled 13 of the ultimately 29 patients in the study, and helped shorten the estimated full enrollment time by approximately ten months.

Our Market Opportunity

We believe our Platform’s impact on healthcare could be profound, and that quantifying our potential market opportunity is challenging, especially for opportunities like Algos that are in their infancy. Our Platform is particularly well suited when there exists both heterogeneous conditions that make up a diseased population and a variety of potential therapeutics or therapeutic pathways, often prescribed based on trial and error. When these conditions exist, we believe technology and AI have the potential to facilitate precision medicine through data associations that substantially reduce the guesswork associated with which drug to prescribe, in what amount, and in which order. We are currently focused on oncology, neuropsychiatry, cardiology, and radiology, in which there is over \$3 trillion of economic burden according to publicly available sources.

Within these markets, our Platform addresses both the clinical diagnostic testing market as well as the market for therapeutic research and development. Our Genomics product line targets an addressable market opportunity for diagnostic testing services that we estimate at over \$70 billion across just oncology and neuropsychiatry, which includes an estimated addressable market opportunity for solid tumor recurrence and treatment monitoring of over \$20 billion. Our Data and Services product line operates within a market in which life sciences companies spent an estimated \$262 billion in 2023 on research and development according to Evaluate Pharma, and addresses needs within the \$50 billion clinical trial services market, the \$51 billion market for biomarker discovery, and the \$18 billion market research for “real world evidence”, as estimated according to Mordor Intelligence and our internal estimates based on third-party research. Over time, we believe that the potential market opportunity for our Algos product line could be substantially larger than our other product lines combined.



Genomics Product Line Market Opportunity

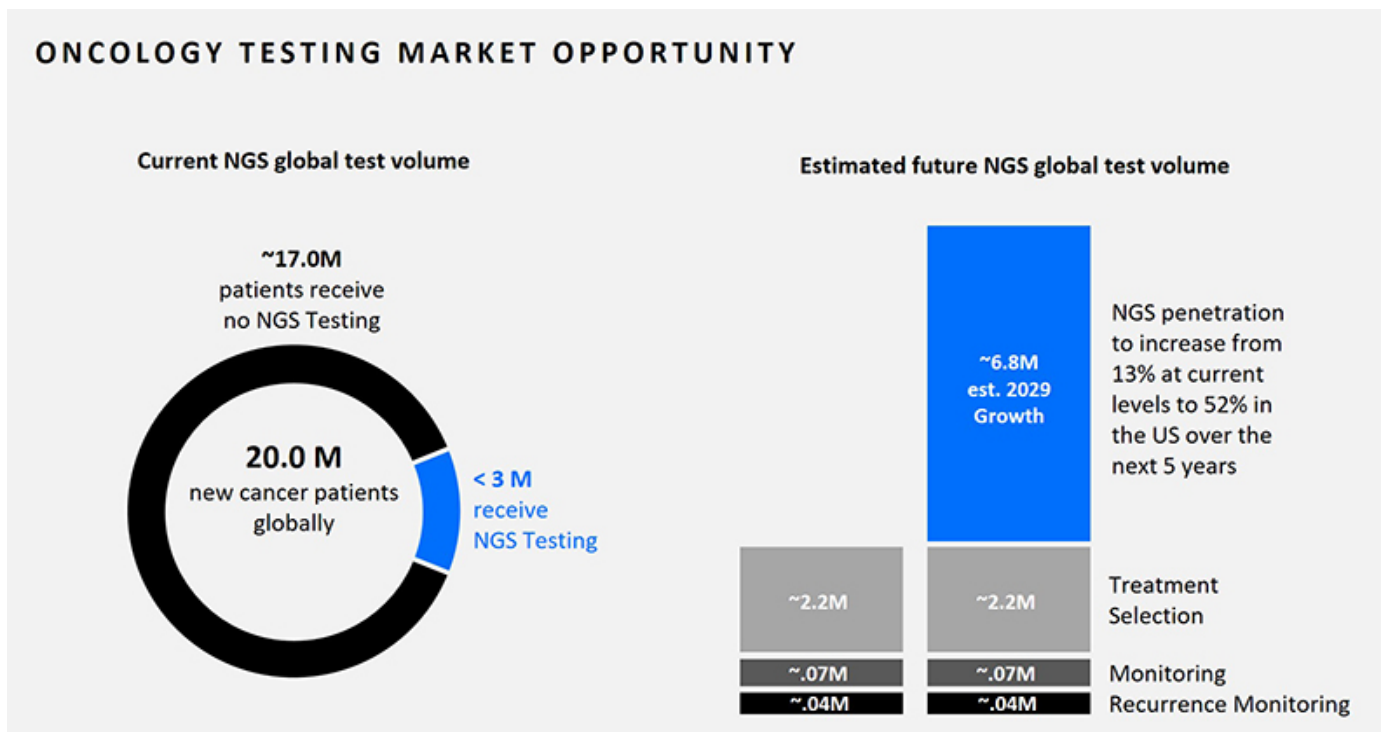
Our automated lab infrastructure is capable of a variety of testing modalities and applications, spanning both anatomic and molecular diagnostics. We believe this infrastructure will enable us to address a wide range of emerging testing applications. We are currently focused on both liquid and tissue molecular testing in oncology, as well as tests for neuropsychiatry and infectious disease. In oncology alone, the market for NGS sequencing is expected to grow substantially over the next several decades.

Oncology Testing Market Opportunity

At present, we offer three main assays in cancer, including solid tumor profiling, liquid biopsy, and inherited cancer risk screening, and expect to commercialize our fourth assay for cancer recurrence monitoring and measuring minimal residual disease in 2024. We believe that our technology integration, and go to market and commercial infrastructure may provide a strategic advantage, and our assays provide a comprehensive and holistic range of options for physicians and patients. Over time, we anticipate being able to address other emerging NGS oncology markets, such as early disease screening, as our most recent cancer recurrence and MRD assay (xM) is based on joint methylation signature and variant calling workflow for minimal residual disease detection.

We believe the oncology testing market is underpenetrated and represents an estimated \$60 billion annual global market opportunity across the following testing applications on which we are focused.

Therapy selection: We address the market for therapy selection with our current tissue and liquid biopsy assay offerings and immunohistochemistry staining. We believe that NGS is increasingly becoming the standard of care to help physicians choose a therapy for their cancer patients across multiple cancer types. There were approximately 20 million patients estimated to be newly diagnosed with cancer globally in 2022 according to GLOBOCAN, and NGS was performed on less than 3 million of these patients according to our estimates. Genomic markers are connected to FDA approved therapeutics for cancers including breast, cervical, cholangiocarcinoma, colorectal, skin, esophageal, stomach, head and neck, leukemia, certain other blood cancers, ovarian, prostate, sarcoma, melanoma, thyroid and urothelial. Moreover, there are additional FDA approved therapeutics that are pan-cancer in nature, for which the therapeutic agent may provide treatment options for patients with the identified targeted biomarker, no matter what type of cancer. In addition to newly diagnosed cancer patients, there is also the opportunity for NGS testing to profile patients participating in clinical trials. According to ClinicalTrials.gov, there are approximately 750 immuno-oncology and 600 targeted oncology therapy programs ongoing with more than 225,000 patients enrolled. Combined, we estimate that therapy selection accounted for 20 million tests globally in 2023 and believe that this will grow substantially as patients may be tested multiple times in the future to inform therapy. According to the National Cancer Institute, an estimated 2 million patients were diagnosed with new cancer in the United States in 2024.



[Table of Contents](#)

Monitoring: We launched our liquid biopsy test for cancer recurrence monitoring and minimal residual disease on June 1, 2024 covering colorectal cancer. While this market opportunity is currently emerging, we anticipate that newly diagnosed cancer patients would benefit from a test that could monitor for cancer recurrence following surgical resection or first line therapy as well as monitor for minimal residual disease (MRD) while on therapy. For those estimated 20 million newly diagnosed cancer patients globally in 2022 according to GLOBOCAN, we believe that multiple tests within the first year following treatment to monitor for recurrence and minimal residual disease could improve clinical outcomes and become the standard of care for many subtypes in the future. In addition, we believe that a test to monitor for recurrence over a longer time period would also benefit a subset of cancer survivors that are at high risk of recurrence. According to our estimates, a substantial number of cancer patients across all cancers will recur within their lifetime and we estimate a higher percentage are at high risk of recurrence. There were approximately 53.5 million cancer survivors in 2022 globally that were diagnosed within the five years previous to 2022 and there are approximately 18.1 million cancer survivors in the United States in 2022. We anticipate that a majority of these patients would benefit from a periodic test over time to test for cancer recurrence and believe it may become standard to test these patients regularly as a means of monitoring their disease progression. Based on certain of our estimates and assumptions, we believe that in newly diagnosed patients alone our recurrence monitoring and minimal residual disease test had a more than 50 million test annual global opportunity in 2022.

Neuropsychiatry Market Opportunity

We estimate the market opportunity for our nP pharmacogenetic test to inform therapy for patients with depression, anxiety, and bipolar disorder was approximately \$10 billion in 2020. Over 13 million patients per year receive treatment for major depressive disorder, or MDD, according to data provided by the National Institute of Mental Health. We believe the opportunity to bring AI to neuropsychiatry is significant and we are at the early stage of the market evolution. The Anxiety & Depression Association of America estimates that 40 million Americans alone suffer from anxiety, and over 26 million Americans have had an episode of depression in 2021 alone according to the National Institute of Mental Health. Despite its growing prevalence, treating depression and anxiety remains difficult. Today, there are dozens of antidepressants that are typically prescribed in a trial and error format, where psychiatrists alter the dose and class of medications when one fails to work. The difficulties in prescribing medications leads to many patients taking the wrong medications in the wrong dose. Emerging evidence suggests that there are molecular mechanisms that suggest one drug, or class of drugs, may work better than another based on the genetic profile of the patient. This field, pharmacogenomics, has only recently emerged and has the potential to be as transformative in neuropsychiatry as it has been in oncology.

Data and Services Product Line Market Opportunity

Our Data and Services product line provides pharmaceutical and biotechnology companies an alternative to acquire data that they would otherwise need to generate through other more expensive means, like running studies, to inform decisions across the drug development lifecycle. It also helps facilitate patient identification and recruitment for clinical trials. According to Evaluate Pharma, in 2023, an estimated \$262 billion was spent on clinical development in the United States. Within this market, our Data and Services product line addresses the following spending categories for biotechnology and pharmaceutical researchers:

- Clinical trials market: \$50 billion spend in 2023 according to Mordor Intelligence.
- Biomarker discovery: \$51 billion spend in 2023 according to Mordor Intelligence.
- Real world evidence: \$18 billion spend in 2024 according to our estimates based on third-party research.

AI Applications Product Line Market Opportunity

Over the longer term, we estimate that the potential market opportunity for our *AI Applications* product line could be orders of magnitude larger than the current total combined market opportunity of our Genomics and

[Table of Contents](#)

Data and Services product lines. Although such tests currently represent a small portion of laboratory testing volume today, we believe in the long-term, they could represent a significant percentage of the market, as more and more algorithms are developed that produce diagnostic insights. Within the United States, there are more than seven billion clinical diagnostic tests run annually according to the American Clinical Laboratory Association. We believe our integrated diagnostic Platform provides us with a differentiated foundation for the development and deployment of algorithmic diagnostics, uniquely positioning us to capitalize on this new and emerging market opportunity.

Our Competitive Advantages

We believe the combined power of technology, data, and AI will have a profound impact on the broader healthcare industry, transforming diagnostics, and enabling physicians and researchers to make data-driven decisions that improve clinical outcomes for patients. The industry today largely relies on diagnostics that are often based on a single source of data and do not employ datasets that are appropriate for many researchers and are frequently unable to provide adequate clinical context to inform personalized therapeutics. Tempus, on the other hand, has created an integrated Platform through which we can deploy AI, and has assembled what we consider to be one of the world's largest libraries of clinical and molecular data, and an operating system to make our information useful for physicians and researchers. We believe our competitive advantages, which we describe below, will enable us to drive widespread commercial adoption of our Platform.

We are both a technology company and a healthcare company, allowing us to harness the advantages of both to advance precision medicine.

We believe the challenge of bringing technology, data, and AI to healthcare requires deep industry expertise across both healthcare and technology. We believe Tempus is well positioned as both a technology company, harnessing the power of data and analytics to help usher in a new era of personalized medicine and a healthcare company, providing AI-driven diagnostics across multiple disease areas. We bring technological capabilities across data and generative AI, which are rarely found among diagnostics companies and yet are necessary for precision medicine. We believe we are differentiated from potential technology competitors in that we have built our Platform to successfully operate in the highly regulated healthcare environment, perform diagnostic testing services as a covered entity, and ingest, collect, structure, and deploy patient data benefiting key stakeholders in the healthcare ecosystem. The team we have assembled has broad experience across technology and healthcare commensurate with the challenge we are undertaking. Our leadership has successfully founded, grown and held leadership positions at technology companies, healthcare providers, life sciences companies, and regulatory bodies such as the FDA. We have approximately 2,300 employees, including hundreds with diverse expertise in genetics, molecular and computational biology, bioinformatics, regulatory affairs, medical, product and engineering, and data science. Roughly one-third of our team is technical, with approximately 250 PhDs and MDs on staff. In addition, as a testament to our balanced workforce, we have almost as many lab technicians as we have software engineers.

We have built a Platform that is connected to hundreds of provider networks, allowing us to amass a large repository of multimodal data that we believe is essential for bringing AI to healthcare.

We believe we are the first to build an Intelligent Diagnostic platform at scale that is connected to vast amounts of multimodal data and an operating system to make that information useful for both physicians and researchers, with the ultimate goal of serving patients. Our Platform consists of integrated elements working together to grow our database, generate Intelligent Diagnostics, and help physicians make data-driven decisions in real time in the clinical setting. We have established dedicated data pipelines to ingest large amounts of complex multimodal data from healthcare institutions through approximately 450 direct data connections, many of which supply us with data in near real time, across more than 2,000 healthcare institutions that order our products and services. We also built a laboratory infrastructure that is capable of providing a robust suite of testing services, including tissue and liquid biopsy sequencing for our customers. Although our company was founded in late 2015, we have already demonstrated the ability to bring AI to healthcare and provide Intelligent

[Table of Contents](#)

Diagnostics to enable precision medicine at scale. Our database of multimodal, de-identified records has grown to be more than 50 times the size of The Cancer Genome Atlas, the largest public genomic dataset that we know of in oncology. We also now have more than 200 petabytes of data in our cloud environment. We have also extended our Platform into neuropsychiatry, radiology, and cardiology. We believe each of the elements of our Platform is difficult for others to replicate.

Our Intelligent Diagnostics provide significant value to our customers, which has fostered broad adoption of many of our products.

Our Platform was designed to align the interests of, and benefit, key stakeholders across the healthcare ecosystem, with the ultimate goal of helping patients. For physicians and other healthcare providers, we offer a suite of products and services that enable them to accelerate their precision medicine efforts, regardless of whether they work in the community setting or within a large healthcare institution. We offer a comprehensive molecular testing portfolio that includes tissue and liquid biopsy NGS tests, which are intelligent, able to provide clinical context for patients, and may help inform therapeutic decisions as a result. In addition to Intelligent Diagnostics, we offer physicians and researchers numerous analytical and software tools to help them manage patients, perform analytics, and derive insights from being a part of our network. We make available to those providers and researchers the raw files that result from our sequencing together with structured clinical data we abstract related to that testing. Through our Trials product offering, we also help oncologists identify patients eligible for clinical trials. Over time, we believe our AI Applications product line will offer physicians and patients unique and clinically actionable insights that are only possible by virtue of the data we have assembled. For pharmaceutical and biotechnology companies, we offer paid access to our de-identified database, with unique breadth, quality, and diversity of data, to inform drug discovery and development. We believe our dataset is the largest and most comprehensive to date in oncology (with other disease areas following), spanning multiple data modalities including: phenotypes, pathology slides, radiology scales, DNA, RNA, TCR/BCR, cfDNA, HLA types, immunohistochemistry, lab results, therapy outcome and response data, single cell sequencing, methylation, microbiomics, and epigenomes.

Our business model has inherent network effects that help drive adoption and improve our data advantage with each new order placed.

Each of our three product lines is designed to collectively leverage our database, strengthen the other product lines, and create network effects and competitive advantages within our markets. Our Genomics product line, including our core diagnostics offering, serves as a foundation for our Data and Services product line, which in turn drives our AI Applications product line. As we collect more data, our tests become more accurate, we launch more applications, and more physicians join our network, thereby growing our database even further to make our tests more precise for clinicians and our database more valuable for researchers. There are multiple network effects we believe will provide a significant competitive advantage and drive adoption of our Platform over time. First, as our Platform becomes more accurate and precise, we believe it inherently drives commercial adoption with physicians and other providers. The breadth and diversity of our multimodal database enables us to deploy generative AI to improve upon our current tests by making them more accurate and more precise. This helps drive new physicians onto our Platform which further increases the size of our database. As our database grows, it increases our ability to develop entirely new tests, such as Algos, which can further drive adoption among physicians. Second, the growth of our database inherently drives commercial adoption with pharmaceutical and biotechnology companies. An increasing number of physicians and other providers using our tests helps grow our database, which increases its value to researchers, as well as results in a larger customer network through which we can facilitate therapy selection and clinical trial recruitment. Unlike traditional laboratory diagnostics, we have the ability to monetize de-identified data in multiple ways, which provides an opportunity to drive revenue beyond just the revenue we receive for running a laboratory test. We believe this creates a competitive advantage as our business model allows us to offer genomic solutions and build proprietary datasets in ways other lab testing providers cannot, as many of them are focused on maximizing reimbursement and do not have ancillary revenue streams as we do. Moreover, the longitudinal nature of the data we collect

further enhances our revenue opportunity as the records we collect have value over time, given that outcomes and response evolve as patients progress through treatment.

Our Platform was built to collect, structure, harmonize and analyze large amounts of multimodal data and make use of large language models deploying generative AI applications in healthcare.

We designed our Platform to be data agnostic. Our Platform can ingest and harmonize data from a wide variety of different healthcare data modalities. Unlike many other laboratory testing providers that focus on a specific modality of data, such as genomics, we currently ingest longitudinal clinical data from EHR including imaging data, generate DNA and RNA profiles along with other forms of molecular data, and perform anatomic pathology analysis. Our unique dataset allows us to leverage multimodal data to deploy generative AI across the large language models we develop and provide Intelligent Diagnostics that generate insights that may be more powerful than insights provided by a single modality of data alone. We believe the healthcare industry is continuing to move towards using orthogonal and varied datasets to inform decision-making, and we are well positioned to be a partner of choice to facilitate this transformation.

Our Platform is disease agnostic and facilitates rapid expansion into different disease categories.

While we started in oncology, our capabilities to collect, structure, and harmonize data, and deploy AI solutions, are applicable to other disease areas. We believe having a multi-disease focus enables us to engage with providers and pharmaceutical companies in a more comprehensive manner than if we were focused on a single disease. As institutions are often looking for ways to deploy precision medicine broadly across diseases, we believe we are well positioned to be their partner, particularly given our established traction within precision oncology and our emerging strength in other disease areas. We have successfully leveraged the core capabilities of our Platform to expand our offering beyond oncology as we entered into neuropsychiatry in 2020 (MDD, bipolar disease, anxiety), radiology and cardiology in 2023.

The size of our database and the breadth of our multimodal data capabilities position us well to be able to launch AI Applications at scale.

We believe our AI Applications product line represents an emerging category of diagnostics that are algorithmic in nature and has the potential to be highly disruptive across a broad set of disease areas. For example, our currently deployed Algos use data the same way laboratory diagnostics companies use chemistry in the battle against disease, improving patient care by learning from the patients who have come before, and tailoring test results based on each patient's unique profile. We believe that as our database grows, we will be able to expand our AI Applications offering, representing a significant long-term opportunity that may be substantially larger than our other existing product lines. We believe our ability to launch AI Applications at scale is a key differentiator of our Platform. We believe our unique data set will enable us to bring the benefits of generative AI and large language models to healthcare, as our curated, multimodal database can be used as a proprietary training set to build a variety of AI based applications, which we intend to deploy through our existing network and distribution platform.

Many of our products and services are already widely used throughout the healthcare ecosystem.

We have established a network that we believe would be difficult for potential competitors to replicate. We have relationships with providers, life sciences companies, and leading industry associations that help provide key competitive advantages around our Platform. We work with hundreds of provider networks, including more than 65% of all academic medical centers in the United States. We have approximately 450 direct unique data connections, many of which supply us with complex multimodal data in near real time, across more than 2,000 healthcare institutions that order our products and services. In addition, we work with numerous industry associations, such as ASCO to structure and distribute the oncology data they collect as part of CancerLinq, which is their oncology data effort. To align interests with the healthcare providers who share data with us, we have developed software products and services that help our partners leverage data and benefit from being part of

[Table of Contents](#)

our network to improve patient care and research. These products have gained significant traction over the past five years, as our offerings are used by more than 7,000 physicians in some way. Between our sequencing and data collection efforts, we are connected in some way to more than 50% of all oncologists practicing in the United States. The value of our products is further evidenced by our volume of repeat ordering from oncologists. Through December 2023, the 12-month retention rate for physicians ordering more than 5 oncology NGS tests was 87% and for physicians ordering more than 25 oncology NGS tests, it was 92%. We define an active physician as those that have placed an oncology NGS test in the last 365 days. The 2023 retention rates are calculated by dividing the number of active physicians in 2022 who have placed more than 5 or 25 oncology NGS tests and also placed an order in 2023 by the total number of active physicians in 2022 who placed more than 5 or 25 oncology NGS tests. As of December 31, 2023, the number of active physicians that had ordered more than 5 oncology NGS tests in the last 365 days was 3,186, and the number of physicians that had previously ordered more than 5 oncology NGS tests but did not order one in 2023 was 498. As of December 31, 2023, the number of active ordering physicians that had ordered more than 25 oncology NGS tests in the prior 365 days was 1,977, and the number of physicians that had previously ordered more than 25 oncology NGS tests but did not order one in 2023 was 162.

Our Growth Strategy

Our goal is to make the promise of precision medicine a reality, and dramatically improve outcomes for those most in need through the broad adoption of AI-enabled diagnostics. Our growth strategy is to:

Grow our database and the number of providers connected to our Platform.

Our database is core to our business model and our ability to deploy AI at scale to enable precision medicine and generate value for ourselves and our customers. We believe we have developed a unique leadership position in the industry, in the United States, given the data we have been able to amass and aim to continue to fuel this growth. We intend to do so by driving commercial adoption of our Platform with healthcare providers, expanding our data sharing relationships, and growing the number of our unique data connections and the hospitals with whom we share data. We also intend to expand our relationships and establish new relationships with industry bodies and associations to help them structure and harmonize their own data to facilitate improvements in patient care. We expect to invest in our laboratory capabilities to leverage the latest technologies and to expand into additional diagnostic modalities as they become adopted by our customers and relevant for helping patients find optimal therapeutics. We are agnostic as to where data originates so long as it enhances precision medicine. Over time, we may also use our Platform to help catalyze the value of data produced by other sources, including other labs. As such, we may evaluate business development opportunities to help grow and consolidate data, whether produced by us or others, both in the United States and abroad.

Drive increased adoption of our Genomics product across healthcare providers.

We serve clinical and research customers broadly through our Genomics product line. We are focused on driving market adoption with physicians by providing a complete portfolio of Intelligent Diagnostics and a suite of software applications that enable them to enhance their precision medicine efforts. We leverage customer feedback to inform product development, including making our tests more precise, and develop new tests and applications that help physicians deliver better clinical outcomes. In oncology, while we currently provide information to help physicians select the right therapy and make sure their patients have access to the most appropriate clinical trials, we are also expanding into other applications, such as disease monitoring and recurrence detection through our new minimal residual disease test, which is currently being validated. We also help clinicians practice precision medicine and provide genetic testing in other disease areas, including neuropsychiatry and infectious disease. We employ a direct sales force in the United States focused on driving adoption with the clinical community and raising awareness of the benefits of our Platform. For research, we aim to drive adoption of our Genomics product line with life sciences companies by supporting their testing needs for

clinical trials and through the development of companion diagnostics. At present, we have more than 211 sales representatives focused on our Genomics offering, and intend to significantly add resources to the team over time.

Drive increased adoption of our data licensing and clinical trial matching products with pharmaceutical and biotechnology companies.

As of March 31, 2024, we have worked with over 200 biotech companies, as well as 19 of the 20 largest public pharmaceutical companies based on 2023 revenue. Our goal is to provide our pharmaceutical and biotechnology customers with a Platform that helps them address challenges throughout their entire product lifecycle. Access to our database, provider network, and laboratory testing capabilities allow our customers to advance their research and clinical initiatives from biomarker discovery through commercialization. The value of multimodal data for informing drug discovery and development is becoming increasingly well understood by life sciences companies. We plan to take advantage of this trend and work to grow the number of companies purchasing de-identified data from us through our Insights product, both those that license data on a per-de-identified record basis as well as those that subscribe to our broader database. We also plan to continue to develop and commercialize software and analytic tools that make the products and services built on our Platform easier to use, including our Lens application that enhances cloud and compute analytical capabilities for researchers. For our Trials product, we aim to grow the number of oncologists and the number of clinical trials participating in our network, and to increase the number of patients we identify to enroll into clinical trials. We are leveraging our direct sales force focused on providers to facilitate the onboarding of oncologists and have an enterprise sales team that focuses on pharmaceutical and biotechnology companies to increase the number of clinical trials in the network.

Validate and deploy AI Applications at scale.

We currently have AI Applications commercially launched through our three Algos in oncology: our TO test, our HRD test, and our DPYD test. We seek to launch additional Algos in oncology and other disease categories, such as cardiology where we have multiple Algos in development. For example, we received breakthrough designation from the FDA for our AFib algorithm based largely on ECG data, and we have a number of other cardiology Algos in development that use ECG data as a primary predictor of potential indications and outcomes. We also intend to focus on growing our primary AI Applications product called “Next,” which is an AI-platform that leverages machine learning to apply an “intelligent layer” onto routinely generated data to proactively identify and minimize care gaps for oncology and cardiology patients. As this product gains adoption, we intend to leverage large language models, generative AI algorithms, and our vast database of de-identified data to develop algorithmic diagnostics designed to identify these patients earlier in their disease progression, when treatments are most effective. We will also seek to launch additional AI Applications, such as implementing new software as a medical device and building and deploying clinical decision support tools. We are commercializing our current Algos to physicians through our direct sales force focused on the clinical market. As more Algos are clinically validated, we expect to leverage this channel to sell additional Algo tests. Over time, we may open our database to third parties to allow them to develop their own Algos using our database, or add our Algos to their existing laboratory tests. We believe the size, breadth, and diversity of our data will ultimately facilitate development of AI Applications across multiple disease categories.

Expand our capabilities and commercial traction outside of oncology, including in neuropsychiatry, radiology, cardiology, and other disease categories.

We built our Platform to be disease agnostic, and we aim to grow adoption in disease categories in which connecting multimodal data and AI can improve decisions and analytics for physicians and researchers. We believe our AI-enabled Platform is uniquely positioned to generate insights when there exist both heterogeneous conditions among a diseased population and a variety of potential therapeutics or therapeutic pathways, often prescribed based on trial and error. In these disease categories, technology and AI have the potential to facilitate

[Table of Contents](#)

data associations and substantially reduce the guesswork as to which drug to prescribe, in what amount, and in which order. We believe these conditions exist in oncology, neuropsychiatry, and cardiology, as well as numerous other life-threatening and chronic diseases. Through our existing relationships with providers and life science companies, we believe we have a high level of visibility into where key healthcare stakeholders desire to advance precision medicine. We believe our Platform is applicable across multiple disease categories, and we plan to extend our offering into additional disease areas. Over time, we believe AI enabled diagnostics will impact all disease categories, and our disease agnostic Platform, broad technology capabilities, and vast customer network, position us well.

Expand internationally.

We believe the opportunity to deploy data and AI in healthcare is global. In many geographies, we believe the healthcare infrastructure is ripe for AI, and in some cases, the ecosystem is even more developed than in the United States. Over time, we intend to expand our capabilities internationally. We are evaluating multiple expansion opportunities, both organic and inorganic. We may acquire or partner with an established entity to facilitate market entry, or we may choose an alternative path focused on organic expansion, such as our Joint Venture in Japan. See “Prospectus Summary—Recent Developments—Japan Joint Venture and Related Agreements” for additional information.

Commercialization

Our commercial efforts are generally focused on driving increased adoption of our various products and services, both by increasing the utilization of existing customers and securing new customers. We employ targeted sales and business development organizations, whose team members are engaged in direct sales and marketing efforts. Our commercial teams typically target healthcare providers and life sciences companies, which are the main purchasers of our products and services. We describe below our overall commercial strategy for each of our three products.

Genomics

Our Genomics product line, largely made up of molecular testing, has two primary customers: physicians and bio-pharma companies. When we sell our tests to physicians we are typically providing them as part of routine clinical care and we are often billing insurance and seeking reimbursement on behalf of the patients for whom the test was ordered. When we sell our test to bio-pharma, we are typically being paid as a contract sequencing provider, either for the trials they are running or as a companion diagnostic to their drug. On the physician side, we commercialize our Genomics products in the United States to clinicians and healthcare providers largely through our dedicated clinical sales organization, that calls on individual doctors or medical practices. As of March 31, 2024, our clinical sales organization in the United States included more than 199 sales representatives who are primarily contacting oncologists, psychiatrists, and other healthcare providers. Our sales representatives typically have backgrounds either in a particular disease area (such as oncology or neuropsychiatry) or in laboratory testing and therapeutics more generally. We supplement our commercial team with clinical specialists with extensive medical affairs experience who provide molecular support in the field.

In oncology, which currently is our largest market, we are focused on driving adoption by targeting individual treating physicians, academic medical centers, community oncology practices, leading physician networks, and industry associations. We also are exploring relationships with third-party payers and governmental institutions. We have a land and expand strategy, by account, whereby we attempt to sign new accounts and increase adoption of our platform within these accounts over time. As such, we often begin a relationship that is transactional in nature, but seek over time, to work on a more comprehensive basis with healthcare providers, serving an ever increasing percentage of our molecular diagnostic needs over time. We find that once a physician starts using Tempus, if they order more than 5 oncology NGS tests from us, their 12-month retention rate is 87%.

[Table of Contents](#)

In addition, we believe that interactions among treating physicians help drive adoption of our products. We are focused on key opinion leaders in the industry through direct outreach and indirect marketing efforts. As of March 31, 2024, we have either published or been acknowledged in 485 publications (401 Tempus-authored), including the following:

- 126 total (93 Tempus-authored) peer-reviewed articles published or accepted for publication in major journals, including publications such as *Nature Biotechnology*, *Clinical Breast Cancer*, *Nature Medicine*, and *Cell*.
- 272 total (237 Tempus-authored) poster presentations based on clinical and research data that have been accepted and presented at major scientific conferences.
- 30 oral presentations at scientific meetings such as the ASCO, ASCO Gastrointestinal and Genitourinary Cancer Symposiums, San Antonio Breast Cancer Symposium, and the American Heart Association Scientific Sessions.

We have a similar strategy in neuropsychiatry, in which we aim to increase the commercial adoption of our nP test for depression as part of the rapidly growing market for pharmacogenomic testing, with a goal to better understand, diagnose and treat neuropsychiatric disorders.

Our commercial strategy for other disease areas is expected to follow our strategy in oncology, which is to focus on offering a broad range of molecular diagnostics to the market, that are connected to clinical data, so we can track how molecular results correlate with outcomes and responses, thereby making our tests smarter and more personalized overtime.

Research Testing

A small component of our genomic testing involves testing performed in a research capacity. This type of testing is typically done under an agreed upon contracted arrangement for specific tests at specific prices and volumes. Typical customers in these arrangements are pharmaceutical companies engaged in testing for clinical trials, researchers who need genomic testing to further research activities, or a company marketing products or services of their own who elects to use us as a reference laboratory. In this type of research testing, the agreed upon rate for testing may vary significantly, and in some cases may even be offered as an in-kind service in exchange for other rights we obtain in the contracted relationship.

As it relates to selling our Genomic Products to bio-pharma, we have a dedicated team of sales executives focused on calling on biotech and pharmaceutical companies who use genomic sequencing services predominantly for the research they are conducting, the clinical trials they are running, or as a companion diagnostic to the extent their therapeutic relies on a bio-marker. To this group, we are typically selling retrospective and prospective sample testing services, as well as companion diagnostic development to support the approval and commercialization of therapeutics.

Data and Services

In addition to our field sales force, our Data and Services products rely on a dedicated business development team focused on enterprise sales to pharmaceutical and biotechnology companies in the United States and abroad. Our strategy with each customer is to demonstrate the value proposition of our Platform and de-identified datasets, and to expand the utilization of our Data and Services products across the organization from early-stage research through clinical development to commercialization. Given the broad and differentiated utility of our Platform, we believe we can support our pharmaceutical and biopharmaceutical customers across many applications, including:

- early stage research and development;
- discovery of new targets and mechanisms of acquired resistance;

[Table of Contents](#)

- clinical trial patient identification and enrollment; and
- Analytic services, including cloud and compute.

We also expect to be able to capture other commercial opportunities from our genomic data, which can be used in combination with clinical outcomes or claims data for multiple applications, including novel target identification, label expansion, and other commercial applications.

As of March 31, 2024, we had approximately 47 sales executives in our Data and Services product line development organization. We divide these individuals by both geography and strategic account to ensure consistency and coordination across our sales efforts.

AI Applications

Our third product line, AI Applications, is focused on developing and providing diagnostics that are algorithmic in nature, implementing new software as a medical device, and building and deploying clinical decision support tools. Our primary AI Applications product is currently “Next,” an AI platform that leverages machine learning to apply an “intelligent layer” onto routinely generated data to proactively identify and minimize care gaps for oncology and cardiology patients. As this product gains adoption, we intend to leverage large language models, generative AI algorithms, and our vast database of de-identified data to develop algorithmic diagnostics designed to identify these patients earlier in their disease progression, when treatments are most effective.

We develop Algos in three ways: (i) we may develop them internally based on our robust de-identified dataset; (ii) we may collaborate with a third party to develop Algos together; and (iii) we may license an existing Algo from a third party. Once we clinically validate an Algo, we typically bring it to market through our existing provider network by leveraging our Genomics sales force. For example, our HRD and TO Algos in oncology have been added to our standard requisition forms, online portal, and EHR integrations. Treating clinicians can order these Algos at the same time they place their standard clinical testing orders for our other Genomics products. We believe clinicians find significant value in being able to receive multiple answers from Tempus while only needing to provide one set of biospecimens, thereby reducing the burden on their patients and their staff. At present, we expect our Algos in other disease areas to go to market through our network of EHR integrations and clinical collaborations.

In October 2022, we acquired Arterys, Inc., a company that provides a platform to derive insights from radiology medical images to improve diagnostic decision-making, efficiency, and productivity across multiple disease areas. We have also developed algorithms based on IHC and H&E staining, which can be used, among other things, to help identify patients who may be eligible for additional treatments or clinical trials.

We commercialize AI Applications in multiple ways. With respect to Algos, historically, we have billed our Algos in oncology to third-party payers just like our other clinical tests. Beginning January 1, 2023, these three Algos were no longer billed separately as there is now a dedicated CPT code to bill for the underlying wet lab procedure. The commercialization of future Algos will depend the nature of each and whether we are able to bill insurance separately. When we do so, we expect reimbursement will be limited for most Algos at launch and may grow over time as we build additional evidence to support the clinical utility and benefit of each Algo.

In addition to billing third-party payers, we also work with pharmaceutical companies and healthcare providers to deploy AI Applications that we bill directly to the customer.

Competition

The increasing value of using data to inform clinical care and drug development decisions is leading more companies to attempt to develop offerings that are marketed in a manner that makes them appear comparable to ours. As a result, each of our products faces increasing competition from a number of other companies.

[Table of Contents](#)

Our Genomics products line primarily faces competition from diagnostics companies that profile genes in cancers and other disease areas, based on either single-marker or comprehensive genomic profile testing, using NGS to evaluate either blood or tissue. Our primary competitors for our currently marketed precision oncology tests include Foundation Medicine, Inc., which was acquired by Roche Holdings, Inc., Caris Life Sciences, Guardant Health, Inc., Natera, Neogenomics, ResolutionBio, which was acquired by Agilent, and others. As we expand into other applications such as recurrence monitoring or minimal residual disease, as well as potentially testing for early detection in the future, we anticipate facing competition from a broader universe of companies. Legacy diagnostic laboratories, such as Quest and LabCorp may also pose competitive threats within the market. Competitors for our pharmacogenetic test in neuropsychiatry include Myriad Genetics, Inc. and Genomind, Inc.

Our Data and Services products primarily face competition from companies that help pharmaceutical and biotechnology companies acquire data to inform drug discovery and development. Our main competitors in this area are Flatiron Health, Inc., IQVIA Holdings Inc., ConcertAI, and others. Our Data and Services products also face competition from CROs, such as Fortrea, ICON, Syneos, PPD, and others, who provide data and clinical trial matching services to pharmaceutical and biotechnology companies.

Our AI Applications products face competition from providers that are focused on providing laboratory testing or algorithm-based diagnostics for the disease and application areas in which our Algos are focused. Our TO test competes with liquid or tissue-based diagnostic tests from Roche Holdings, Inc., Caris Life Sciences, Guardant Health, Inc. Illumina, Inc, and others. Our HRD test competes with tests from Myriad Genetics, Inc., Caris Life Sciences, and others. We may also compete with companies developing or commercializing algorithm-based diagnostics using a variety of different data modalities, including digital pathology companies such as PathAI, Inc. and PaigeAI. In cardiology we may compete with companies such as HeartFlow Inc. and Eko Devices, Inc. We expect other competitors to enter this market, including academic medical centers who develop their own Algos and are looking for new ways to commercialize them. We believe we are positioned well against this competition given our broad provider network and our ability to deploy AI solutions at scale through our Platform.

Many of our competitors may have substantially greater financial and other resources than us, including larger research and development staff, or more established marketing and sales forces. Other competitors are in the process of developing novel technologies for the diagnostics and healthcare data markets that may lead to products that rival or replace our products. While we cannot be certain as to how the market will evolve, today we believe we are substantially differentiated from our competitors for many reasons, including the network effects of our products, proprietary technologies, rigorous product development processes and scalable infrastructure, customer experience, and multidisciplinary teams.

For further discussion of the risks we face relating to competition, see the section titled “Risk factors—Risks Related to Our Business and Strategy.”

Payer coverage and reimbursement

Clinical Testing

A majority of the genomic testing we perform is clinical in nature. We typically receive reimbursement for these tests from commercial payers and from government health benefits programs, such as Medicare and Medicaid. In almost all of our arrangements for clinical testing, we take on the obligation (and risk) to bill the patient’s insurance for the testing being provided, subject to other laws that may require us to directly bill the healthcare provider in limited circumstances. We also have a small number of “direct pay” arrangements where the provider may agree to pay us a specific amount and take on the billing obligation (and associated risk of payment) for the testing performed for that customer’s patients, or where a third-party advocacy group or government agency has arranged for and agreed to pay for testing.

Laboratory tests such as our genomic tests, as with most other healthcare services, are classified for reimbursement purposes under a coding system maintained by the American Medical Association known as

[Table of Contents](#)

current procedure terminology, or CPT, which we use to bill and receive reimbursement for our tests. CPT codes are associated with the particular test that we have provided to the patient, but do not always precisely describe the testing offered.

Once the American Medical Association establishes a CPT code, the Centers for Medicare & Medicaid Services, or CMS, establish payment levels and coverage rules under Medicare (sometimes through national coverage determinations, or NCDs), although it delegates some of that authority to local Medicare administrative contractors, or MACs, who may have local coverage determinations, or LCDs, in place. Private payers establish their rates and coverage rules independently.

As of December 31, 2023, we had received payment on approximately 50% of our clinical oncology NGS tests across all payors performed from January 1, 2021 through December 31, 2022. We calculated this metric on a trailing basis based on payor adjudication timing. However, we continued to perform our NGS tests through December 31, 2023. For the years ended December 31, 2022 and 2023, our average reimbursement for NGS tests in oncology was approximately \$916 and \$1,452, respectively. Our strategy to improve reimbursement is as follows:

- Continue to work with NGS, our local MAC in Chicago, to maintain coverage of current assays, obtain coverage of new assays through engagement and reconsideration requests, and to continue various appeals when coverage is denied.
- Continue to work with our new MAC, Palmetto, which covers our tests when performed out of our newest lab in Raleigh, North Carolina, to get the technical assessment of our assays approved and coverage policy in place for reimbursement.
- Continue to seek FDA approval of additional assays.
- Continue to work with commercial payers to both get in network and get our assay approved and reimbursement at a higher rate than it currently is.

At present, we have a team that is dedicated to the above, and if we are successful we would expect our reimbursement per assay to be more in line with other NGS providers who have adopted similar strategies, such as FMI and Guardant.

Algos

Because we expect the Algos we bring to market to provide value to a wide variety of stakeholders in the healthcare ecosystem, we anticipate that the payment we may be able to obtain will vary substantially. Value obtained is likely to depend on the nature of the underlying product or service developed, as well as the disease area and manner in which the product or service is made available. For example, while the current HRD and TO offerings are point-of-care ordered, and are reimbursed through our xR assay, we do not expect to be limited only to payment and reimbursement through the typical fee-for-service reimbursement model based solely on point-of-care clinical testing. We may also develop Algos in combination with life sciences companies in which we are paid directly or through alternative payment structures.

In sum, we expect that reimbursement for our Genomics products and Algos may provide value to, and potentially be paid for by, pharmaceutical companies, health maintenance organizations, managed care organizations, pharmacy benefit managers, large employers, and integrated delivery network health systems, in addition to being reimbursed by government healthcare programs, private insurers and other third-party payers. Those arrangements may take many forms. Pharmaceutical companies have expressed interest in using some of our Algos to better identify, screen, stratify, and enroll patients in clinical trials, payers have expressed interest in Algos that could assist them in value-based care initiatives that reduce spending waste in the healthcare system, and large health systems have expressed interest in certain population health screening Algos that could assist them in providing higher quality care, better outcomes for patients, and/or in reducing costs.

Operations

We currently perform our laboratory tests, including our NGS and anatomic pathology tests in our clinical laboratories in Chicago, Atlanta, and Raleigh. Our Chicago, Atlanta and Raleigh laboratories are CAP-accredited and CLIA-certified, and licensed in other states including New York, California, Maryland, Pennsylvania, and Rhode Island.

The scale our laboratories have been able to achieve in the approximately 7 year period since we ran our first clinical test is a direct result of the quality and experience of our laboratory staff, our investment in technologies in the laboratory that assist with automation and workflow improvements, and the ability of our engineering staff to build fit for purpose applications in a rapid development environment to support the laboratory's evolving needs. Our leadership staff in laboratory operations has decades of experience in running high-quality, high-throughput assays and have been instrumental in putting in place the necessary standard operating procedures to perform the volume of testing we do in a repeatable, reliable manner while constantly looking for opportunities to improve and refine our processes. The workflows in our laboratory are designed for high-throughput testing and numerous steps in the process are fully automated or semi-automated using robotics and other advanced workflow technologies. At present, for our xT and xF tests, our laboratory workflows enable us to successfully deliver results over 95% of the time, assuming tissue is received that meets the minimum requirements we have outlined for our assays.

Our investments have allowed us to continuously drive turnaround time downward, to provide results to doctors and their patients in a timeframe that we believe now meets or exceeds many of our competitors who have been operating in the NGS space for longer. As of December 31, 2023, our average turnaround time for our xT assays was approximately nine days, and our average turnaround time for xF was seven days.

We believe that the strong foundational infrastructure in our laboratory operations, along with the technology used in our lab and the engineering expertise we have on hand is further differentiated when coupled with the connections we can rapidly deploy with our customers, and the experienced research scientists and doctors we employ, who are able to design and refine our highest volume assays in-house. We believe this unique combination will continue to allow us to rapidly respond to the changing needs of our customers and evolving market conditions.

Our Strategic Collaborations

AstraZeneca Master Services Agreement

In November 2021, we entered into a Master Services Agreement, or, as amended in October 2022, February 2023 and December 2023, the MSA, with, and issued a warrant to, AstraZeneca AB, or AstraZeneca. Under the MSA, we agreed, on a non-exclusive basis, to provide AstraZeneca with certain of our products and services, including licensed data, sequencing, clinical trial matching, organoid modeling services, algorithm development, and others. In exchange for certain discounted prices, AstraZeneca has committed to spend a minimum of \$220 million on such products and services during the term of the MSA. The minimum commitment may increase to \$320 million upon the occurrence of any of the following events: (i) at AstraZeneca's election on or before December 31, 2024, (ii) the date that AstraZeneca exercises the warrant issued pursuant to the terms thereof (as described below), or (iii) in the event of an initial public offering, if the average closing price of our common stock exceeds two times the offering price for any 30-day trading period following the one-year anniversary of such initial public offering. The term of the master services agreement will continue through December 31, 2028, unless terminated sooner.

Under the warrant, AstraZeneca has the right to purchase up to \$100 million in shares of our Class A common stock at an exercise price equal to the initial public offering price in this offering. The number of shares of Class A common stock issuable upon exercise of the warrant will be determined based on the initial public offering price in this offering (2,777,778 shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus). The warrant may be exercised any time following the date that is 180 days following the pricing of

[Table of Contents](#)

our initial public offering through December 31, 2026. AstraZeneca will be entitled to substantially the same registration rights with respect to the shares under the warrant as those granted to holders of registrable securities pursuant to our Ninth Amended and Restated Investors' Rights Agreement, dated November 19, 2020. See "Description of Capital Stock — Warrant." The warrant will be automatically canceled and terminated for no consideration, if not previously exercised, in the event AstraZeneca declines to extend its financial commitment before December 31, 2024. If AstraZeneca exercises the warrant, AstraZeneca will be required to increase its minimum commitment under the MSA to \$300 million.

GSK Master Services Agreement

In August 2022, we entered into a Strategic Collaboration Agreement, or, as amended in May 2024, the GSK Agreement, with GlaxoSmithKline, or GSK. Under the GSK Agreement, we agreed, on a non-exclusive basis, to provide GSK with certain of our products and services, including licensed data, sequencing, clinical trial matching, organoid modeling services, algorithm development, and others. In exchange for certain discounted prices, GSK has committed to spend a minimum of \$180 million on such products and services during the term of the GSK Agreement, of which \$70 million was paid upon execution. The term of the GSK Agreement will continue through December 31, 2027, unless terminated sooner. An additional commitment of up to \$120 million may be triggered at GSK's election for the years 2028, 2029 and 2030.

Recursion Master Agreement

In November 2023, we entered into a Master Agreement, or the Recursion Agreement, with Recursion Pharmaceuticals, Inc., or Recursion. Under the Recursion Agreement, we agreed to provide certain of our services and to license certain data to Recursion, including a limited right to access our proprietary database of de-identified clinical and molecular data for certain therapeutic product development purposes. In exchange for these rights, Recursion will pay an initial license fee of \$22 million and an annual license fee throughout the term of the agreement, which, together with the initial license fee, totals up to \$160 million. The term of the Recursion Agreement will continue through November 3, 2028, unless terminated sooner. In addition to mutual rights to terminate for an uncured breach of the Recursion Agreement, Recursion may terminate the agreement for convenience after three years upon 90 days prior notice, subject to payment by Recursion of an early termination fee.

The initial license fee and each annual license fee are payable at Recursion's option either in the form of (x) cash, (y) shares of Recursion's Class A common stock, or (z) a combination of cash and shares of Recursion's Class A common stock in such proportion as is determined by Recursion in its sole discretion; provided that the aggregate number of shares of Recursion's Class A common stock to be issued to us under the Recursion Agreement shall not exceed 19.9% of the aggregate total of shares of Class A common stock and Class B common stock outstanding on November 3, 2023, or the date immediately preceding the date of any shares of Class A common stock issued pursuant to the Recursion Agreement, whichever is less. We have customary registration rights with respect to any shares of Recursion's Class A common stock issued pursuant to the Recursion Agreement.

Quality Assurance

We are committed to providing reliable and accurate molecular information to our customers. We have established sophisticated laboratory workflows and automated procedures to ensure accurate specimen identification, timely communication of results, and prompt discovery and correction of errors. We monitor our quality through a variety of methods, including objectively measured performance improvement indicators. Any quality concerns and incidents are subject to risk assessment, root cause analysis, and corrective action plans. Safeguarding protected health information, or PHI, is of primary importance.

We have established a comprehensive quality assurance program for our laboratory. Our quality assurance program includes policies and procedures covering personnel qualifications and training requirements, process and test validation, quality control of reagents and test processes, proficiency testing, routine monitoring, and

internal audit. We have implemented policies and procedures to adhere to applicable requirements necessary for federal and state licenses and accreditation for clinical diagnostic laboratories, including policies and procedures related to patient and employee safety, hazardous waste disposal, and general laboratory management.

Supply chain

We have a highly automatic system in place to manage our workflow called LIMS, which also connects to our various supply chain systems through which we ensure materials are ordered in a timely manner, and the logistics of each order are overseen to ensure we are delivering orders, in the shortest time possible, with the highest quality possible.

We maintain significant inventory on hand of both laboratory consumables and other materials to avoid work stoppages and/or material delays. Our systems, processes, and procedures are designed to scale, as evidenced by the fact that we have become one of the largest sequences of cancer patients in the United States in just a few years.

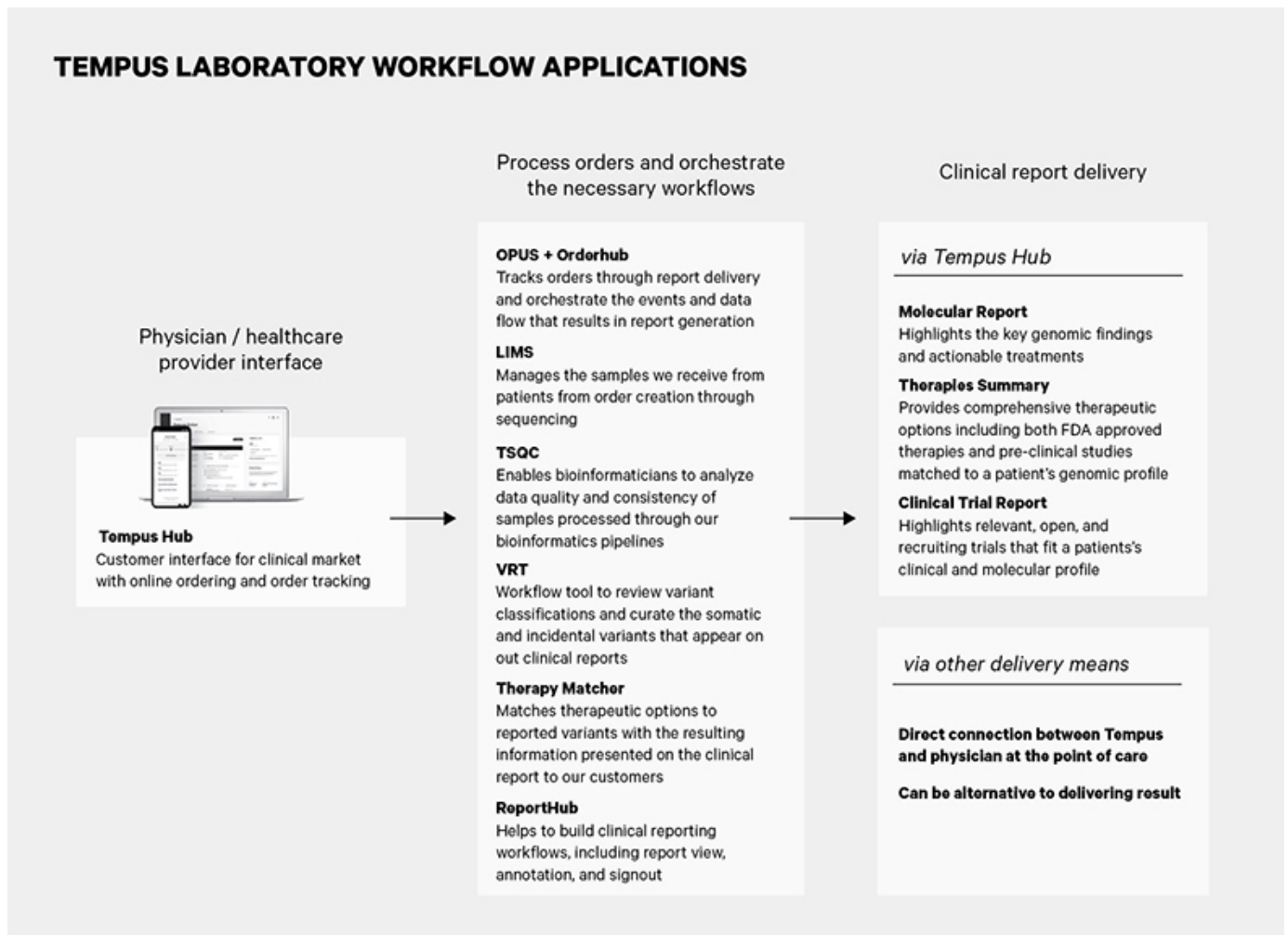
We rely on a limited number of suppliers, or, in some cases, sole suppliers to provide our products and services. Illumina, Inc., is our primary supplier of sequencers and laboratory reagents; however, we purchase laboratory supplies from other companies as well, such as Roche Holdings, Inc., Integrated DNA Technologies, and PerkinsElmer. We rely on standard commercial carriers for the delivery of samples to our laboratories.

In June 2021, we entered into a supply agreement with Illumina to provide products and services that can be used for certain research and clinical activities, including certain sequencers, reagents, and other consumables for use with the Illumina sequencers, as well as service contracts for the maintenance and repair of the sequencers. The supply agreement does not require us to order minimum amounts of hardware, or to use exclusively the Illumina platform for conducting our sequencing. The term of the supply agreement continues for a period of 12 years, unless either we or Illumina terminate the supply agreement for the other's uncured material breach, bankruptcy or insolvency-related events, or in the event a regulatory authority notifies such party that continued performance under the supply agreement would violate applicable laws or regulations. Illumina may terminate the agreement in the event we consummate a change of control transaction with a sequencing products company, and we may terminate the supply agreement for convenience upon 90 days' prior written notice.

In addition to suppliers who provide products supporting our provision of laboratory tests, we have cloud agreements with both AWS and Google. In June 2020, we signed a multi-year strategic partnership with Google that included an agreement through which Tempus procures extensive cloud services from Google. The cloud agreement includes a convertible note that is reduced as we procure services from Google and also contemplates co-innovation projects that we may work on with Google from time to time.

Laboratory Workflow Applications

With respect to the provision of laboratory services, in addition to Hub, our consumer-facing application, we have developed multiple software tools that facilitate back-end processing, workflow, and report generation. Our back-office software stack was custom developed around our workflow, allowing us to automate material components of our laboratory and order generation process. The following diagram represents the software applications supporting our laboratory workflow.



We have also developed a series of tools that allow us to access our connected dataset and our internal workflow tools, as we seek to query our own data and make it available both internally and externally. In an effort to facilitate a connection between our providers and our data, we built an application called *Tempus One*, which is both a physical device and a mobile software application that has AI assistant capabilities and relays information contained in our oncology reports and supporting database to physicians through voice activated interactions in real time. We believe *Tempus One* has the potential to create a more efficient workflow for healthcare professionals, reducing the time needed to review and process information, providing more time for them to focus on patient care. Over time, we intend to embed more insights into *Tempus One*, and other similar applications we develop, thereby enhancing the amount of information readily available to our ordering physicians.

Data Structuring Applications

After we generate a clinical report through the provision of laboratory services, or once we obtain data through one of our dedicated connections to providers, we utilize a different suite of proprietary software applications to abstract, structure, and de-identify the resulting data to help augment our existing multimodal dataset and provide additional healthcare services to our customers. Our tools have become highly efficient over time allowing us to abstract data, often between 50-100 discrete data elements per patient case, in approximately an hour (or the cost equivalent), which do both onshore and offshore through dedicated teams we have established to perform the data curation and abstraction. In addition, we have the capability to perform enhanced abstraction, which can take several hours per patient case, allowing us to define a custom set of features over a defined period of time that we want abstracted. Each of our proprietary tools is designed to enhance our customers' experience, either by creating useful information that assists in the treatment of patients, or by creating an efficient back-end infrastructure that allows us to deliver our services more quickly and efficiently.

Information Security

We endeavor to maintain a robust information security program in an effort to protect all of the sensitive data we maintain, including PHI and PII and we take all threats to the availability, integrity and confidentiality of that data with the utmost seriousness. Our security program consists of a layered defense approach starting with appropriate data and system design through architectural principles that include security as a core component at every step of the process. This security by design approach is enhanced with physical security, host and endpoint device management, application security, and infrastructure and cloud security. In each of those areas, we utilize industry-standard third-party tools that are designed to assist our team of security professionals in their various tasks and we work closely with our vendors, including those who provide cloud computing services that make up substantial parts of our infrastructure (e.g., Google and Amazon).

Our security program is operationalized through documented policies, procedures and required training for all staff in the entire company, with special emphasis on key teams in engineering and IT operations who develop, monitor and maintain the applications and systems used in our business. In an effort to ensure that these policies are adhered to and that no new vulnerabilities arise, we conduct regular auditing of a wide swath of our security related measures, including a mix of self-audits, external penetration testing, external application security audits and audits performed by our customers and partners. Our security team is also instrumental in maintaining our ISO 27001 certification and assisting the compliance and legal teams with other legally required audits and provides detailed reports regularly to upper management and the Board on security related matters.

Intellectual Property

Our success depends in part on our ability to obtain and maintain intellectual property and proprietary protection for our products and technology, defend and enforce our intellectual property rights, preserve the confidentiality of our trade secrets, and operate without infringing, misappropriating or otherwise violating valid and enforceable intellectual property and proprietary rights of others. We are actively involved in research and development and therefore seek to protect the investments we have made into the development of our products and technology by relying on a combination of patents, trademarks, trade secrets, know-how, and license agreements. We also seek to protect our proprietary technology, in part, by requiring our employees, consultants, contractors and other third parties to execute confidentiality agreements and invention assignment agreements and by implementing technological protections for our intellectual property.

As of March 31, 2024, our patent portfolio and patent applications included 82 issued U.S. patents and allowed applications, 113 pending U.S. non-provisional patent applications, 16 pending U.S. provisional patent applications, 7 pending Patent Cooperation Treaty (international) patent applications, 25 issued foreign patents, 166 pending foreign patent applications, 6 licensed issued U.S. patents, 1 licensed pending U.S. patent application, 10 licensed issued foreign patents and 3 licensed pending foreign patent applications. Our issued patents are expected to begin expiring in 2033, assuming payment of all appropriate maintenance, renewal, annuity or other governmental fees. These patents and applications generally fall into four broad categories:

- applications and patents relating to our Platform, including claims directed to product ordering processes; data processing and multimodal data analytics;
- applications and patents relating to our Genomics business, including claims directed to detecting and monitoring cancer and other diseases by determining genetic variations and other biomarkers in biological samples;
- applications and patents relating to our Data business, including claims directed to analysis of healthcare records and patient outcomes; and
- applications and patents related to our Algos business, including claims directed to machine learning diagnostics and predictions in cancer and cardiology.

The term of individual patents depends upon the legal term of the patents in the countries in which they are obtained. In most countries in which we file or intend to file, including the United States, the patent term is

[Table of Contents](#)

20 years from the earliest date of filing a non-provisional patent application. Additionally, a U.S. provisional patent application expires twelve months from its filing date, and its subject matter can only be claimed in an issued patent if, among other things, we timely file a non-provisional patent application making a valid priority claim to that provisional patent application before it expires. In the United States, a patent's term may be lengthened by patent term adjustment, which compensates a patentee for administrative delays by the USPTO in examining and granting a patent, or may be shortened if a patent is terminally disclaimed over an earlier filed patent. We cannot be sure that patents will be granted with respect to any current pending patent application or with respect to any patent applications filed by us in the future, nor can we be sure that any current or future patents will be commercially useful in protecting our platform, products, services, technologies and processes. In addition, any patents that we may hold, whether owned or licensed, may be challenged, circumvented or invalidated by third parties.

The success of our business strategy also depends in part on our continued ability to protect our branded services, and we own registered trademarks on "TEMPUS" and product related brand names in the United States and worldwide.

We also rely on trade secrets, including know-how, unpatented technology and other proprietary information, to strengthen our competitive position. We seek to protect trade secrets and confidential and unpatented know-how, in part, by entering into non-disclosure and confidentiality agreements with parties who have access to such knowledge, such as our employees, collaborators, manufacturers, consultants, advisors and other third parties. We also seek to enter into confidentiality and invention or patent assignment agreements with our employees and consultants that obligate them to maintain confidentiality and assign their inventions to us.

Our ability to stop third parties from making, using, selling, offering to sell or importing our Platform, services and products depends on the extent to which we have rights under valid and enforceable patents, trade secrets or other intellectual property and proprietary rights that cover these activities. We pursue intellectual property protection to the extent we believe it would advance our business objectives. Notwithstanding these efforts, there can be no assurance that we will adequately protect our intellectual property or provide any competitive advantage. For more information regarding risks relating to intellectual property, see "Risk Factors—Risks Related to Our Intellectual Property."

Government Regulation

Regulation of Medical Devices in the United States

Our diagnostic products and services are subject to extensive and ongoing regulation by the FDA under the Federal Food, Drug, and Cosmetic Act of 1938 and its implementing regulations, collectively referred to as the FDCA, as well as other federal and state regulatory bodies in the United States. The laws and regulations govern, among other things, product design and development, pre-clinical and clinical testing, manufacturing, packaging, labeling, storage, record keeping and reporting, clearance or approval, marketing, distribution, promotion, import and export and post-marketing surveillance. Failure to comply with applicable requirements may subject a device and/or its manufacturer to a variety of administrative sanctions, such as FDA refusal to approve pending premarket applications, issuance of warning letters, mandatory product recalls, import detentions, civil monetary penalties, and/or judicial sanctions, such as product seizures, injunctions and criminal prosecution.

FDA Premarket Clearance and Approval Requirements

Unless an exemption applies, each medical device commercially distributed in the United States requires either FDA clearance of a 510(k) premarket notification, approval of a petition for premarket approval, or PMA, or grant of a de novo request for classification. During public emergencies, the FDA also may grant emergency use authorizations, or EUA, to allow commercial distribution of devices intended to address the public health emergency. Under the FDCA, medical devices are classified into one of three classes—Class I, Class II or

[Table of Contents](#)

Class III—depending on the degree of risk associated with each medical device and the extent of manufacturer and regulatory control needed to provide reasonable assurance of its safety and effectiveness. Classification of a device is important because the class to which a device is assigned determines, among other things, the necessity and type of FDA review required prior to marketing the device.

Class I devices include those with the lowest risk to the patient and are those for which safety and effectiveness can be reasonably assured by adherence to the FDA's "general controls" for medical devices, which include compliance with the applicable portions of the FDA's Quality System Regulation, or QSR, facility registration and product listing, reporting of adverse medical events and malfunctions through the submission of Medical Device Reports, or MDRs, and appropriate, truthful and non-misleading labeling, advertising, and promotional materials. Some Class I devices also require 510(k) premarket notification clearance as described below.

Class II devices are moderate risk devices subject to the FDA's general controls, and any other "special controls" deemed necessary by the FDA to ensure the safety and effectiveness of the device, such as performance standards, product-specific guidance documents, special labeling requirements, patient registries or post-market surveillance. Premarket review and clearance by the FDA for Class II devices is accomplished through the 510(k) process. The 510(k) submission must demonstrate that the device is "substantially equivalent" to a legally marketed predicate device, which in some cases may require submission of clinical data.

Class III devices include devices deemed by the FDA to pose the greatest risk, such as life-sustaining, life-supporting or implantable devices and devices deemed not substantially equivalent to a predicate device following a 510(k) submission. The safety and effectiveness of Class III devices cannot be reasonably assured solely by general or special controls. Submission and FDA approval of a PMA application is required before marketing of a Class III device can proceed. A PMA application is intended to demonstrate that the device is reasonably safe and effective for its intended use and must be supported by extensive data, typically including data from pre-clinical studies and clinical trials.

Emergency Use Authorization

In emergency situations, such as a pandemic, the FDA has the authority to allow unapproved medical products or unapproved uses of cleared or approved medical products to be used in an emergency to diagnose, treat or prevent serious or life-threatening diseases or conditions when there are no adequate, approved, and available alternatives.

Under this authority, the FDA may issue an EUA for an unapproved device if the following four statutory criteria have been met: (1) a serious or life-threatening condition exists; (2) evidence of effectiveness of the device exists; (3) a risk-benefit analysis shows that the benefits of the product outweigh the risks; and (4) no other alternatives exist for diagnosing, preventing or treating the disease or condition. Evidence of effectiveness includes medical devices that "may be effective" to prevent, diagnose, or treat the disease or condition identified in a declaration of emergency issued by the Secretary of U.S. HHS. The "may be effective" standard for EUAs requires a lower level of evidence than the "effectiveness" standard that the FDA uses for product clearances or approvals in non-emergency situations. Once granted, an EUA will remain in effect and generally terminate on the earlier of (1) the determination by the Secretary of U.S. HHS that the public health emergency has ceased or (2) a change in the approval status of the product such that the authorized use(s) of the product are no longer unapproved. After the EUA is no longer valid, the product is no longer considered to be legally marketed and one of the FDA's non-emergency premarket pathways would be necessary to resume or continue distribution of the subject product.

The FDA also may revise or revoke an EUA if the circumstances justifying its issuance no longer exist, the criteria for its issuance are no longer met, or other circumstances make a revision or revocation appropriate to protect the public health or safety.

Clinical Trials

Clinical trials are typically required to support a PMA and are sometimes required to support a 510(k) submission. All clinical investigations of devices to determine safety and effectiveness must be conducted in accordance with the FDA's investigational device exemption, or IDE, regulations which govern investigational device labeling, prohibit promotion of the investigational device, and specify an array of recordkeeping, reporting and monitoring responsibilities of study sponsors and study investigators. If the device presents a "significant risk" to human health, the FDA requires the device sponsor to submit an IDE application to the FDA, which must be approved prior to commencing clinical trials. A significant risk device is one that presents a potential for serious risk to the health, safety or welfare of a patient and either is implanted, purported or represented to be used in supporting or sustaining human life, is for a use that is substantially important in diagnosing, curing, mitigating or treating disease or otherwise preventing impairment of human health, or otherwise presents a potential for serious risk to a subject.

An IDE supplement must be submitted to, and approved by, the FDA before a sponsor or investigator may make a change to the investigational plan that may affect its scientific soundness, study plan or the rights, safety or welfare of human subjects. In addition, the clinical trials must be approved by, and conducted under the oversight of, an Institutional Review Board, or IRB, for each clinical site. The IRB is responsible for the initial and continuing review of the IDE and may pose additional requirements for the conduct of the study. If an IDE application is approved by the FDA and one or more IRBs, clinical trials may begin at a specific number of investigational sites with a specific number of patients, as approved by the FDA. If the device is considered a "non-significant risk," IDE submission to FDA is not required. Instead, only approval from the IRB overseeing the investigation at each clinical trial site is required.

Post-market Regulation

After a device is cleared or approved for marketing, numerous and pervasive regulatory requirements continue to apply. These include:

- establishment of registration and device listing with the FDA;
- QSR requirements, which require manufacturers and contract manufacturers, including any third-party manufacturers, to follow stringent design, testing, control, documentation and other quality assurance procedures during all aspects of the design and manufacturing process;
- labeling regulations and FDA prohibitions against the promotion of investigational products, or "off-label" uses of cleared or approved products;
- requirements related to promotional activities;
- clearance or approval of product modifications to 510(k)-cleared devices that could significantly affect safety or effectiveness or that would constitute a major change in intended use of a cleared device;
- medical device reporting regulations, which require that a manufacturer report to the FDA if a device it markets may have caused or contributed to a death or serious injury, or has malfunctioned and the device or a similar device that it markets would be likely to cause or contribute to a death or serious injury, if the malfunction were to recur;
- correction, removal and recall reporting regulations, which require that manufacturers report to the FDA field corrections, product removals or recalls if undertaken to reduce a risk to health posed by the device or to remedy a violation of the FDCA that may present a risk to health;
- the FDA's recall authority, whereby the agency can order device manufacturers to recall from the market a product that is in violation of governing laws and regulations; and
- post-market surveillance activities and regulations, which apply when deemed by the FDA to be necessary to protect the public health or to provide additional safety and effectiveness data for the device.

[Table of Contents](#)

The FDA has broad regulatory compliance and enforcement powers. If the FDA determines that we failed to comply with applicable regulatory requirements, it can take a variety of compliance or enforcement actions, which may result in any of the following sanctions:

- untitled letters, warning letters, fines, injunctions, consent decrees and civil penalties;
- unanticipated expenditures to address or defend such actions;
- customer notifications for repair, replacement, refunds;
- recall, withdrawal, administrative detention or seizure;
- operating restrictions or partial suspension or total shutdown of production;
- refusal of or delay in granting our requests for 510(k) clearance or PMA approval of new tests or modified tests;
- operating restrictions, partial suspension or total shutdown of production;
- withdrawing 510(k) clearance or PMA approvals that are already granted;
- refusal to grant export approval; or
- criminal prosecution.

Laboratory-Developed Tests (LDTs)

LDTs have generally been considered to be tests that are designed, developed, validated and used within a single laboratory. The FDA takes the position that it has the authority to regulate such tests as medical devices under the FDCA. The FDA has historically exercised enforcement discretion and has not required clearance or approval of LDTs prior to marketing. On May 6, 2024, the FDA published final regulations taking effect on July 5, 2024 that will phase-out enforcement discretion over a period of four years and require compliance with device registration and listing requirements, medical device reporting requirements, 510(k) clearance, denovo authorization or Premarket Approval and the requirements of the FDA's Quality System Regulation. In addition to FDA regulation, the New York Clinical Laboratory Evaluation Program separately approves certain LDTs offered to New York State patients.

CLIA and State Laboratory Licensing

Under the Clinical Laboratory Improvement Amendments, or CLIA, a laboratory is any facility that performs laboratory testing on specimens derived from humans for the purpose of providing information for the diagnosis, prevention or treatment of disease, or the impairment of or assessment of health. CLIA requires that a laboratory hold a certificate applicable to the type of laboratory examinations it performs and that it complies with, among other things, standards covering operations, personnel, facilities administration, quality systems and proficiency testing, which are intended to ensure, among other things, that clinical laboratory testing services are accurate, reliable and timely. We have a current CLIA certificate to perform our tests at our laboratories in Chicago, Illinois, Atlanta, Georgia and Raleigh, North Carolina. To renew our CLIA certificate, we are subject to survey and inspection every two years to assess compliance with program standards.

Laboratories performing high complexity testing are required to meet more stringent requirements than laboratories performing less complex tests. In addition, a laboratory that is certified as "high complexity" under CLIA may develop, manufacture, validate and use LDTs. CLIA requires analytical validation including accuracy, precision, specificity, sensitivity and establishment of a reference range for any LDT used in clinical testing. The regulatory and compliance standards applicable to the testing we perform may change over time and any such changes could have a material effect on our business.

[Table of Contents](#)

CLIA provides that a state may adopt laboratory regulations that are more stringent than those under federal law, and a number of states have implemented their own more stringent laboratory regulatory requirements. State laws may require that nonresident laboratories, or out-of-state laboratories, maintain an in-state laboratory license to perform tests on samples from patients who reside in that state. As a condition of state licensure, these state laws may require that laboratory personnel meet certain qualifications, specify certain quality control procedures or facility requirements or prescribe record maintenance requirements.

Failure to comply with CLIA certification and state clinical laboratory licensure requirements may result in a range of enforcement actions, including certificate or license suspension, limitation, or revocation, directed plan of action, onsite monitoring, civil monetary penalties, criminal sanctions, and revocation of the laboratory's approval to receive Medicare and Medicaid payment for its services, as well as significant adverse publicity.

The College of American Pathologists, or CAP, maintains a clinical laboratory accreditation program. While not required to operate a CLIA-certified laboratory, many private insurers require CAP accreditation as a condition to contracting with clinical laboratories to cover their tests. In addition, some countries outside the United States require CAP accreditation as a condition to permitting clinical laboratories to test samples taken from their citizens. We have obtained CAP accreditation for our Chicago, Illinois, Atlanta, Georgia and Raleigh, North Carolina laboratories. In order to maintain CAP accreditation, we are subject to survey for compliance with CAP standards every two years. Failure to maintain CAP accreditation could have a material adverse effect on the sales of our tests and the results of our operations.

Federal and State Health Care Laws

Federal Physician Self-Referral Prohibition

We are also subject to the federal physician self-referral prohibition, commonly known as the Stark Law, and to comparable state laws. Together these restrictions generally prohibit us from billing a patient or governmental or private payer for certain designated health services, including clinical laboratory services, when the physician ordering the service, or a member of such physician's immediate family, has a financial relationship, such as an ownership or investment interest in or compensation arrangement, with us, unless the relationship meets an applicable exception to the prohibition. Several Stark Law exceptions are relevant to many common financial relationships involving clinical laboratories and referring physicians, including: (1) fair market value compensation for the provision of items or services; (2) payments by physicians to a laboratory for clinical laboratory services; (3) space and equipment rental arrangements that satisfy certain requirements and (4) personal services arrangements that satisfy certain requirements. The laboratory cannot submit claims to the Medicare Part B program for services furnished in violation of the Stark Law, and Medicaid reimbursements may be at risk as well. These prohibitions apply regardless of any intent by the parties to induce or reward referrals or the reasons for the financial relationship and the referral. Penalties for violating the Stark Law include significant civil, criminal and administrative penalties, such as the return of funds received for all prohibited referrals, fines, civil monetary penalties, exclusion from the federal healthcare programs, integrity oversight and reporting obligations, and imprisonment. In addition, knowing violations of the Stark Law may also serve as the basis for liability under the federal False Claims Act, or FCA, which can result in additional civil and criminal penalties.

Federal Anti-Kickback Law

The federal Anti-Kickback Statute, or AKS, makes it a felony for a person or entity, including a clinical laboratory, to knowingly and willfully offer, pay, solicit or receive any remuneration, directly or indirectly, overtly or covertly, in cash or in kind, in order to induce business that is reimbursable under any federal health care program. The government may also assert that a claim that includes items or services resulting from a violation of the AKS constitutes a false or fraudulent claim under the FCA, which is discussed in greater detail below. Additionally, a person or entity does not need to have actual knowledge of the statute or specific intent to

[Table of Contents](#)

violate it in order to have committed a violation. Although the AKS applies only to items and services reimbursable under any federal health care program, a number of states have passed statutes substantially similar to the AKS that apply to all payers. Penalties for violations of such state laws include imprisonment and significant monetary fines. Federal and state law enforcement authorities scrutinize arrangements between health care providers and potential referral sources to ensure that the arrangements are not designed as a mechanism to induce patient care referrals or induce the purchase or prescribing of particular products or services. Generally, courts have taken a broad interpretation of the scope of the AKS, holding that the statute may be violated if merely one purpose of a payment arrangement is to induce referrals or purchases. In addition to statutory exceptions to the AKS, regulations provide for a number of safe harbors. If an arrangement meets the provisions of an applicable exception or safe harbor, it is deemed not to violate the AKS. An arrangement must fully comply with each element of an applicable exception or safe harbor in order to qualify for protection. Failure to meet the requirements of the safe harbor, however, does not render an arrangement illegal. Rather, the government may evaluate such arrangements on a case-by-case basis, taking into account all facts and circumstances.

Other Health Care Laws

In addition to the requirements discussed above, several other health care fraud and abuse laws could have an effect on our business.

The FCA prohibits, among other things, a person from knowingly presenting, or causing to be presented, a false or fraudulent claim for payment or approval and from making, using, or causing to be made or used, a false record or statement material to a false or fraudulent claim in order to secure payment or retain an overpayment by the federal government. In addition to actions initiated by the government itself, the statute authorizes actions to be brought on behalf of the federal government by a private party having knowledge of the alleged fraud. Because the complaint is initially filed under seal, the action may be pending for some time before the defendant is even aware of the action. If the government intervenes and is ultimately successful in obtaining redress in the matter or if the plaintiff succeeds in obtaining redress without the government's involvement, then the plaintiff will receive a percentage of the recovery. Finally, the Social Security Act includes its own provisions that prohibit the filing of false claims or submitting false statements in order to obtain payment. Several states have enacted comparable false claims laws which may be broader in scope and apply regardless of payer.

The Social Security Act includes civil monetary penalty provisions that impose penalties against any person or entity that, among other things, is determined to have presented or caused to be presented a claim to a federal health program that the person knows or should know is for an item or service that was not provided as claimed or is false or fraudulent. In addition, a person who offers or provides to a Medicare or Medicaid beneficiary any remuneration, including waivers of co-payments and deductible amounts (or any part thereof), that the person knows or should know is likely to influence the beneficiary's selection of a particular provider, practitioner or supplier of Medicare or Medicaid payable items or services may be liable under the civil monetary penalties statute. Moreover, in certain cases, providers who routinely waive copayments and deductibles for Medicare and Medicaid beneficiaries, for example, in connection with patient assistance programs, can also be held liable under the AKS and FCA. One of the statutory exceptions to the prohibition is non-routine, unadvertised waivers of copayments or deductible amounts based on individualized determinations of financial need or exhaustion of reasonable collection efforts. The Office of Inspector General of the HHS emphasizes, however, that this exception should only be used occasionally to address special financial needs of a particular patient.

The federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, created new federal criminal statutes that prohibit, among other actions, knowingly and willfully executing, or attempting to execute, a scheme to defraud any healthcare benefit program, including private third-party payers, and knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false, fictitious or fraudulent statement in connection with the delivery of or payment for healthcare benefits, items or services. Like the AKS, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation.

[Table of Contents](#)

The Eliminating Kickbacks in Recovery Act of 2018, or EKRA, prohibits knowingly and willfully soliciting or receiving any remuneration (including any kickback, bribe or rebate) directly or indirectly, overtly or covertly, in cash or in kind, in return for referring a patient or patronage to a laboratory; or paying or offering any remuneration (including any kickback, bribe or rebate) directly or indirectly, overtly or covertly, in cash or in kind, to induce a referral of an individual to a laboratory or in exchange for an individual using the services of that laboratory. EKRA was enacted to help reduce opioid-related fraud and abuse. However, EKRA defines the term “laboratory” broadly and without reference to any connection to substance use disorder treatment. The EKRA applies to all payers including commercial payers and government payers. Violations of EKRA are subject to significant fines and/or up to ten years in jail, separate and apart from existing AKS regulations and penalties. The law includes a limited number of exceptions, some of which closely align with corresponding AKS exceptions and safe harbors, and others that materially differ. Currently, there is no regulation interpreting or implementing EKRA, nor any guidance released by a federal agency regarding the scope of EKRA.

HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, or HITECH, and their respective implementing regulations, impose obligations on “covered entities,” including certain healthcare providers, health plans, and healthcare clearinghouses, as well as their respective “business associates” that create, receive, maintain or transmit individually identifiable health information for or on behalf of a covered entity, with respect to safeguarding the privacy, security and transmission of individually identifiable health information. Additionally, HITECH created four new tiers of civil monetary penalties, amended HIPAA to make civil and criminal penalties directly applicable to business associates, and gave state attorneys general new authority to file civil actions for damages or injunctions in U.S. federal courts to enforce HIPAA and seek attorneys’ fees and costs associated with pursuing federal civil actions.

The Physician Payments Sunshine Act, enacted as part of the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or the ACA, also imposed annual reporting requirements on manufacturers of certain devices, drugs and biologics for payments and other transfers of value by them during the previous year to physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors) and teaching hospitals, as well as ownership and investment interests held by such physicians and their immediate family members. Beginning in 2022, applicable manufacturers are required in certain circumstances to report such information regarding their payments and other transfers of value to physician assistants, nurse practitioners, clinical nurse specialists, anesthesiologist assistants, certified registered nurse anesthetists and certified nurse midwives during the previous year.

Also, many states have laws similar to those listed above that may be broader in scope and may apply regardless of payer.

Efforts to ensure that our internal operations and business arrangements with third parties comply with applicable laws and regulations involve substantial costs. Any action brought against us for violation of these or other laws or regulations, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management’s attention from the operation of our business. Additionally, certain of our business practices, including our consulting and advisory board arrangements with physicians and other healthcare providers, a small number of whom may receive stock or restricted stock units as compensation for services provided, may not comply with current or future corporate practice of medicine statutes, regulations, agency guidance or case law. If our operations are found to be in violation of any of the fraud and abuse laws described above or any other laws that apply to us, we may be subject to penalties, including potentially significant criminal, civil and administrative penalties, damages, fines, disgorgement, imprisonment, exclusion from participation in government healthcare programs, contractual damages, reputational harm, integrity oversight and reporting obligations, limitations to the sale of certain products or services, diminished profits and future earnings, and the curtailment or restructuring of our operations.

Data Privacy and Security

We are, or may become, subject to numerous federal, state, local and foreign laws, regulations, standards, and guidance regarding data privacy and security. For example, HIPAA, as mentioned above, imposes privacy, security and breach reporting obligations with respect to individually identifiable health information upon “covered entities” (health plans, health care clearinghouses and certain health care providers), and their respective business associates, individuals or entities that create, received, maintain or transmit protected health information in connection with providing a service for or on behalf of a covered entity. HIPAA mandates the reporting of certain breaches of health information to the U.S. Department of Health and Human Services, or HHS, affected individuals and if the breach is large enough, the media. Entities that are found to be in violation of HIPAA, including as the result of a breach of unsecured PHI, a complaint about privacy practices or an audit by HHS, may be subject to significant civil, criminal and administrative fines and penalties and/or additional reporting and oversight obligations if required to enter into a resolution agreement and corrective action plan with HHS to settle allegations of HIPAA non-compliance.

Even when HIPAA does not apply, failing to take appropriate steps to keep consumers’ personal information secure may constitute unfair acts or practices in or affecting commerce in violation of Section 5(a) of the Federal Trade Commission Act, 15 U.S.C § 45(a). The FTC expects a company’s data security measures to be reasonable and appropriate in light of the sensitivity and volume of consumer information it holds, the size and complexity of its business, and the cost of available tools to improve security and reduce vulnerabilities. Personally identifiable health information is considered sensitive data that merits stronger safeguards. The FTC’s guidance for appropriately securing consumers’ personal information is similar to what is required by the HIPAA Security Rule. In addition, certain state laws govern the privacy and security of personal information, including health information in certain circumstances, some of which are more stringent than HIPAA and many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts. Failure or perceived failure to comply with these laws, where applicable, can result in material adverse effects to our business, including the imposition of significant civil and/or criminal penalties and private litigation.

The California Consumer Privacy Act, or CCPA, which went into effect January 1, 2020, is an example of the increasingly stringent privacy laws at the state level in the United States. The CCPA, among other things, imposes several obligations on covered companies, including requiring specific disclosures related to a business’s collection, use and sharing of personal information and requirements to respond to requests related to their personal information (e.g. requests to understand personal information collection practices, to delete personal information, and to opt out of certain disclosures of their information). The CCPA also created a private right of action with statutory damages for certain data breaches, thereby potentially increasing risks associated with a data breach.

Additionally, in November 2020, California voters passed the California Privacy Rights Act of 2020, or CPRA. The CPRA, which went into effect on January 1, 2023 and creates additional obligations with respect to certain data relating to consumers, significantly expands the CCPA, including by introducing additional obligations such as data minimization and storage limitations, granting additional rights to consumers, such as correction of personal information and additional opt-out rights, and creates a new entity, the California Privacy Protection Agency, to implement and enforce the law. The CCPA and CPRA may increase our compliance costs and potential liability. In addition to the CCPA, numerous other states’ legislatures have passed or are considering similar laws that will require ongoing compliance efforts and investment. For example, Virginia passed the Virginia Consumer Data Protection Act, and Colorado passed the Colorado Privacy Act, both of which differ from the CPRA and became effective in 2023.

Outside the United States, there are an increasing number of laws and regulations governing the collection, use and processing of personal data. For example, the European Union’s General Data Protection Regulation, or EU GDPR applies to any company established in the European Economic Area, or EEA, and to companies established outside the EEA that process personal information in connection with the offering of goods or services to data subjects in the EEA or the monitoring of the behavior of data subjects in the EEA. These regulations are often more restrictive than those in the United States and may restrict transfers of personal data

[Table of Contents](#)

from the EEA to the United States and other countries unless certain requirements are met. The EU GDPR provides that EU member states may make their own further laws and regulations limiting the processing of genetic, biometric or health data, which could limit our ability to use and share personal data or could cause our costs to increase, and harm our business and financial condition. Further, the United Kingdom's decision to leave the European Union has created uncertainty with regard to data protection regulation in the United Kingdom. As of January 1, 2021, we are also subject to the UK General Data Protection Regulation and UK Data Protection Act of 2018, which retains the GDPR in substantially similar form in the United Kingdom's national law. Failure to comply with any of these obligations could expose us to material adverse effects, including significant fines.

For more information regarding risks relating to data privacy and security, see "Risk Factors – Risks Related to Our Highly Regulated Industry – Our collection, processing, use and disclosure of personally identifiable information, including patient and employee information, is subject to privacy and security regulations, and our failure to comply with those regulations or to adequately secure the information in our possession could result in significant liability or reputational harm."

Health Reform

In March 2010, the ACA became law. This law substantially changed the way health care is financed by both commercial payers and government payers, and significantly impacted our industry. The ACA contains a number of provisions that impacted existing state and federal healthcare programs or result in the development of new programs, including those governing enrollments in state and federal healthcare programs, reimbursement changes and fraud and abuse.

Since its enactment, there have been efforts to repeal all or part of the ACA. For example, on June 17, 2021 the U.S. Supreme Court dismissed a challenge on procedural grounds that argued the ACA is unconstitutional in its entirety because the "individual mandate" was repealed by Congress. Thus, the ACA will remain in effect in its current form. Further, prior to the U.S. Supreme Court ruling on January 28, 2021, President Biden issued an executive order that initiated a special enrollment period for purposes of obtaining health insurance coverage through the ACA marketplace, which began on February 15, 2021 and remained open through August 15, 2021. The executive order also instructed certain governmental agencies to review and reconsider their existing policies and rules that limit access to healthcare, including among others, reexamining Medicaid demonstration projects and waiver programs that include work requirements, and policies that create unnecessary barriers to obtaining access to health insurance coverage through Medicaid or the ACA. It is possible that other challenges to the ACA will be made in the future. Further, on August 16, 2022, President Biden signed the Inflation Reduction Act of 2022, or IRA, into law, which among other things extends enhanced subsidies for individuals purchasing health insurance coverage in the ACA marketplaces through plan year 2025. The IRA also eliminates the "donut hole" under the Medicare Part D program beginning in 2025 by significantly lowering the beneficiary maximum out-of-pocket cost and establishing a new manufacturer discount program. It is unclear how any such challenges and litigation, and the healthcare reform measures of the Biden administration will impact the ACA.

In addition, other legislative changes have been proposed and adopted since the ACA was enacted. On August 2, 2011, the Budget Control Act of 2011 was signed into law, which, among other things, reduced Medicare payments to providers by 2% per fiscal year, effective on April 1, 2013 and, due to subsequent legislative amendments to the statute, will remain in effect through 2032, unless additional Congressional action is taken.

We expect that additional state, federal, and foreign healthcare reform measures will be adopted in the future.

Coverage and Reimbursement

The availability and extent of reimbursement by governmental and private payers is essential for most patients to be able to afford our current and future diagnostic products. Each payer makes its own decision as to whether to provide coverage for our tests, whether to enter into a contract with us and the reimbursement rate for a test.

[Table of Contents](#)

Coverage determinations by a payer may depend on a number of factors, including but not limited to a payer's determination that a test is appropriate, medically necessary or cost-effective. Negotiating with payers is time-consuming, and payers often insist on their standard form contracts, which may allow payers to terminate coverage on short notice, impose significant obligations on us and create additional regulatory and compliance hurdles for us. Further, when we contract with a payer as a participating provider, reimbursements by the payer are generally made pursuant to a negotiated fee schedule and are limited to only covered indications or where prior approval has been obtained. Becoming a participating provider can result in higher reimbursement amounts for covered uses of our tests and, potentially, no reimbursement for non-covered uses identified under the payer's policies or the contract.

Although we are a participating provider with several commercial payers, some large commercial payers have issued non-coverage policies that consider tissue and liquid comprehensive genomic profile testing, including certain of our Genomics tests, as experimental or investigational.

In the United States, many significant decisions about reimbursement for new diagnostics are made by the Centers for Medicare & Medicaid Services, or CMS, which makes a national coverage determination, or NCD, as to whether and to what extent a new diagnostic will be covered and reimbursed under Medicare, although it frequently delegates this authority to local Medicare Administrative Contractors, or MACs, which may make a local coverage determination, or LCD, with respect to coverage and reimbursement. Private payers tend to follow Medicare to a substantial degree. During the year ended December 31, 2023, Medicare claims represented 26% of our clinical testing volume. Given we operate laboratories in multiple MACs and run both LDTs and an FDA-approved assay, the applicable reimbursement determination varies based on the assay being run and the locations where it is being processed. The rules and standards that CMS uses to determine reimbursement rates for our tests are frequently changing and subject to revision, which could have a material impact on our results.

For example, Medicare's NCD for NGS, first established in 2018 and subsequently updated in 2020, states that NGS oncology tests (such as our Tempus xT and Tempus xF tests), would be covered by Medicare nationally if and when: (1) performed in a CLIA-certified laboratory, (2) ordered by a treating physician, (3) the patient meets certain clinical and treatment criteria, including having recurrent, relapsed, refractory, metastatic, or advanced stages III or IV cancer, (4) the test is approved or cleared by the FDA as a companion in vitro diagnostic for an FDA approved or cleared indication for use in that patient's cancer, and (5) results are provided to the treating physician for management of the patient using a report template to specify treatment options. We believe that our xT CDX assay, which received FDA approval in April 2023, will meet the criteria for reimbursement under the NCD. The NGS NCD also states that each MAC may provide local coverage of other NGS tests for cancer patients only when the test is performed by a CLIA-certified laboratory, ordered by a treating physician and the patient meets the same clinical and treatment criteria required of nationally covered NGS tests under the NGS NCD. An NGS typically test is not covered by Medicare when cancer patients do not have the above-noted indications for cancer under either an NCD or LCD.

National Government Services, Inc. is the local MAC that makes local coverage determinations, or LCDs, for tests conducted at our Chicago laboratory. The Local MAC has issued two LCDs related to genetic testing in cancer, each of which currently requires claims to be submitted under a single CPT code that describes the test. Because no CPT code comprehensively describes our NGS oncology tests, we have historically submitted claims using individual codes based on the cancer subtype profiled. On March 25, 2021, the Local MAC instructed us to submit our claims using a different designated CPT code and indicated that such claims would be individually reviewed. In addition to claims submitted after the March 25, 2021 guidance, on July 23, 2021, the Local MAC issued revised instructions for CPT coding, which may be applicable to our NGS oncology tests performed after the date of the revised guidance, and further updated those instructions on July 29, 2021. We have sought additional clarification on this guidance from the Local MAC in order to understand its impact on our coding procedures. We are also attempting to assess the impact of this updated guidance on the payments we may receive for Medicare claims submitted to the Local MAC. Claims submitted under the March 2021 and July 2021 guidance were summarily denied and we are in the process of appealing these denials, but the process is typically slow and costly, and multiple levels of appeal may be required for adjudication of outstanding claims.

[Table of Contents](#)

On February 10, 2022, the Local MAC issued a revised LCD (L37810), and a corresponding Billing and Coding update (A56867). The increased scope of coverage provided for in the revised LCD will result in the CPT code they instructed us to begin billing in July 2021 being reimbursed at the prevailing Medicare rate for those tests which meet the revised coverage criteria. The modified LCD is effective April 1, 2022 and applies to genomic sequence analysis panel tests in the treatment of solid tumors, which primarily impacts our solid tumor assay, xT, given the modified scope of coverage in the revised LCD. We continue to monitor the impact the LCD has on the claims currently in the appeal process. Initial indications suggest that the LCD has generally had a favorable impact on reimbursement for claims submitted after April 1, 2022.

Beginning January 1, 2023, a new CPT code went into effect covering full transcriptome testing when performed separately from DNA testing. Historically, our xT assay was actually comprised of two separate and distinct procedures, DNA and RNA. Given there was not an applicable CPT code for RNA, we did not bill that test. With the introduction of the new code, we now have two separate assays, one analyzing DNA – xT and one analyzing RNA – xR that are ordered and billed for separately. We requested that the Local MAC add the new CPT code to the LCD, which they did effective January 1, 2023.

Palmetto is the MAC jurisdiction that determines reimbursement for tests conducted at our Raleigh and Atlanta laboratories through the MoIDx program. MoIDx requires laboratories to complete a technical assessment process in order to secure reimbursement for tests run at labs in its jurisdiction. Upon receiving approval in the technical assessment process, assays are assigned a z-code and a price at which MoIDx will reimburse claims. In conjunction with launching our Raleigh laboratory, we submitted a technical assessment for our xT assay in 2022 and our xF assay in 2023. We received approval on our xT assay in October 2023 and on our xF assay in March 2024.

In addition, pursuant to the regulations of CMS, we cannot bill Medicare directly for tests provided for Medicare beneficiaries in some situations. CMS adopted an exception to its laboratory date of service regulation, and if certain conditions are met, molecular testing laboratories such as us can rely on that exception to bill Medicare directly, instead of seeking payment from the hospital. If this exception is repealed or curtailed by CMS, or its laboratory date of service regulation is otherwise changed to adversely impact our ability to bill Medicare directly, our revenue could be materially reduced.

Furthermore, on September 27, 2023, the Centers for Medicare and Medicaid Services (CMS) published calendar year 2024 preliminary payment determinations for new and reconsidered codes on the Medicare clinical laboratory fee schedule (CLFS), including new codes that may apply to tests we offer through our Genomics business. In doing so, CMS rejected the recommendations from experts on the Clinical Diagnostic Laboratory Test (CDLT) Advisory Panel and recommended reimbursement rates for several new procedure codes describing genomic profiling tests that are substantially below our costs to perform them. Following a comment period, CMS revised its preliminary determination and assigned each of the new codes to gapfill - a process by which each of the individual MACs prices the codes, and the resulting median price across the MACs becomes the price on the Medicare CLFS. We are currently participating in the gapfill process with the MACs within which we operate. On May 1, 2024, CMS posted the MAC-specific payment recommendations which indicated that the codes applicable to our tests would be reimbursed at the same or a higher level than they were previously reimbursed. These recommendations are currently open for public comment and CMS will publish the final MAC-specific amounts in September. If CMS ultimately prices the new codes at lower rates than they have previously reimbursed our tests at, such pricing decision may have a significant impact on business, results of operations, financial condition and prospects. National Government Services, Inc. revised its coding guidance on February 5, 2024, informing laboratories that they should begin using the new molecular diagnostic CPT codes effective January 1, 2024 even though those codes are not priced because they are going through the gapfill process.

Some payers have implemented, or are in the process of implementing, laboratory benefit management programs, often using third-party benefit managers to manage these programs. The stated goals of these

[Table of Contents](#)

programs are to help improve the quality of outpatient laboratory services, support evidence-based guidelines for patient care and lower costs. The impact on laboratories, such as us, of active laboratory benefit management by third parties is unclear, and we expect that it would have a negative impact on our revenue in the short term. Payers may resist reimbursement for our tests in favor of less expensive tests, require pre-authorization for our tests, or impose additional pricing pressure on and substantial administrative burden for reimbursement for our tests. We expect to continue to focus substantial resources on increasing adoption of, and coverage and reimbursement for, our current tests and any future tests we may develop. We believe it may take several years to achieve broad coverage and adequate contracted reimbursement with a majority of payers for our tests. However, we cannot predict whether, under what circumstances, or at what price levels payers will cover and reimburse our tests.

Outside the United States, the reimbursement process and timelines vary significantly. Certain countries, including a number of member states of the European Union, set prices and make reimbursement decisions for diagnostic products, with limited participation from the marketing authorization or CE mark holders, or may take decisions that are unfavorable to the authorization or CE mark holder where they have participated in the process. There can be no assurance that we can achieve acceptable prices and reimbursement decisions.

Legal Proceedings

From time to time, we are involved in various legal proceedings arising from the normal course of business activities. We are not presently a party to any litigation the outcome of which, we believe, if determined adversely to us, would individually or taken together have a material adverse effect on our business, operating results, cash flows or financial condition. Defending such proceedings is costly and can impose a significant burden on management and employees. The results of any current or future litigation cannot be predicted with certainty, and regardless of the outcome, litigation can have an adverse impact on us because of defense and settlement costs, diversion of management resources, and other factors.

Although no formal legal proceeding has been instituted, from time to time, we receive requests from governmental agencies, or third parties working on their behalf, for documents and information related to our products and services. For example, on May 19, 2022, Tempus received a subpoena from the Office of the Ohio Attorney General. The subpoena required production of certain billing and patient records associated with nine Ohio Medicaid patients who received Tempus clinical diagnostic tests between 2019 and 2022. Tempus provided responsive documents in June 2022 and has not received additional inquiry since that time. Similarly, on March 4, 2024, we received a Civil Investigative Demand, or CID, from the U.S. Attorney's Office for the Eastern District of New York. The CID requested documents and other information related to our compliance with the False Claims Act, the Anti-Kickback statute, and in particular 42 C.F.R. § 414.510(b), which is commonly referred to as the Medicare 14-Day Rule. We provided an initial production on April 4, 2024, and expect to continue producing responsive documents on a rolling basis over the next several months. While the Company believes its programs and payments comply with the Anti-Kickback statute, no assurance can be given as to the timing or outcome of the government's investigation, or that it will not result in a material adverse effect on the Company's business. In addition, we have received requests for medical records and billing information from certain Unified Program Integrity Coordinators regarding clinical diagnostic services provided by Tempus to patients enrolled in the Medicare and Medicaid programs. We have responded to all such requests for information.

Facilities

Our headquarters is located in Chicago, Illinois, where we lease approximately 180,000 square feet of laboratory and office space pursuant to a lease that expires in February 2029. We also lease an aggregate of approximately 25,000 square feet of laboratory and office space in Atlanta, Georgia pursuant to two leases that expire in September 2024 and September 2025, respectively. We also have a new genomics lab in Raleigh, North Carolina, which became operational in 2022 and from which we began offering commercial laboratory tests in the second half of 2022. Our CLIA-certified laboratories are located in these facilities. We also have offices in New York, New York and Redwood City, California. We do not own any real property. While we believe our

existing facilities are adequate to meet our current requirements, we expect to expand our facilities as our operations grow over time. We believe we will be able to obtain such additional space on acceptable and commercially reasonable terms.

Employees and Human Capital

As of March 31, 2024, we had more than 2,300 employees, of which 757 were technical and were engaged in product and engineering, and research and development. As of March 31, 2024, 983 employees were based at our headquarters in Chicago, Illinois, 88 employees were based in Atlanta, Georgia, and 122 employees were based in Raleigh, North Carolina. None of our employees are currently represented by a labor union or covered under a collective bargaining agreement, and we have never experienced a work stoppage. However, on February 8, 2024, the International Association of Machinists and Aerospace Workers, or the IAM, District Lodge 8, filed a Petition for Election with the National Labor Relations Board, or the NLRB, to serve as the collective bargaining representative of certain of our laboratory employees located in Chicago, Illinois. On March 6 and 7, 2024, the NLRB held an election, at which the defined collective bargaining unit voted to unionize and for the IAM to serve as the collective bargaining representative. We have begun the process of negotiating a collective bargaining agreement with the IAM. Even though we are currently unaware of other unionization efforts, it is possible that other employees may also seek to unionize. We consider our relationship with our employees to be positive.

Our human capital resources objectives include, as applicable, identifying, recruiting, retaining, incentivizing and integrating our existing and additional employees. The principal purposes of our equity and other incentive plans are to attract, retain and reward personnel through the granting of stock-based and cash-based compensation awards, in order to increase stockholder value and the success of our company by motivating such individuals to perform to the best of their abilities and achieve our objectives.

MANAGEMENT

The following sets forth information, as of May 31, 2024, regarding our current executive officers and directors:

<u>Name</u>	<u>Age</u>	<u>Position</u>
<i>Executive Officers:</i>		
Eric Lefkofsky	54	Chief Executive Officer, Founder and Director
Ryan Fukushima	39	Chief Operating Officer
Erik Phelps	53	Executive Vice President, Chief Administrative and Legal Officer and Assistant Secretary
Andrew Polovin	50	Executive Vice President, General Counsel and Secretary
James Rogers	38	Chief Financial Officer
<i>Non-Employee Directors:</i>		
Peter J. Barris	72	Director
Eric D. Belcher	55	Director
Jennifer A. Doudna, Ph.D.	60	Director
David R. Epstein	62	Director
Wayne A.I. Frederick, M.D.	52	Director
Robert Ghenchev ⁽¹⁾	41	Director
Scott Gottlieb, M.D.	51	Director
Theodore J. Leonsis	68	Director
Nadja West, M.D.	63	Director

- (1) Robert Ghenchev is expected to resign from our board of directors, effective immediately prior to the effectiveness of the registration statement of which this prospectus forms a part.

Executive Officers

Eric Lefkofsky is our Founder and has served as our Chief Executive Officer and a member of our board of directors since our inception. Before founding Tempus, Mr. Lefkofsky co-founded Groupon, Inc. in 2008, where he held various roles, including member of the board of directors (through November 2023), Chairman of the board of directors (November 2015 to June 2020), Executive Chairman (through August 2013) and Chief Executive Officer (August 2013 to November 2015). Mr. Lefkofsky also co-founded Lightbank LLC in 2008, a private venture capital firm specializing in investments in technology companies, and has served as its managing member since inception and General Partner since January 2019. Mr. Lefkofsky also co-founded InnerWorkings, Inc., Mediaocean, LLC, Echo Global Logistics, Inc., and Pathos AI, Inc., and served on each company's board of directors or board of managers. In addition, Mr. Lefkofsky has served on the board of directors of Northwestern Memorial Healthcare since February 2024. Mr. Lefkofsky holds a bachelor's degree from the University of Michigan and a J.D. from the University of Michigan Law School. We believe that Mr. Lefkofsky is qualified to serve on our board of directors because of his perspective and experience as our Founder and Chief Executive Officer, and his extensive knowledge of the venture capital and technology industries.

Ryan Fukushima has served as our Chief Operating Officer since September 2015. Prior to joining us, Mr. Fukushima was an Entrepreneur-in-Residence and Vice President at Lightbank LLC, a private venture capital firm specializing in investments in technology companies, from February 2014 to September 2015, and currently serves as a co-founder and interim CEO of Pathos AI, Inc. Mr. Fukushima holds a B.S. from California Polytechnic University and a M.B.A. from the Ross School of Business at the University of Michigan.

[Table of Contents](#)

Erik Phelps has served as our Executive Vice President and Chief Administrative and Legal Officer since June 2020. Prior to this, Mr. Phelps served as our Executive Vice President and General Counsel from March 2017 to June 2020. Prior to joining us, Mr. Phelps served as the General Counsel at Epic Systems Corporation, a software company that provides electronic health records for medical groups, hospitals and healthcare organizations, from May 2013 to March 2017. Mr. Phelps holds a B.A. from Beloit College and a J.D. from the George Washington University Law School.

Andrew Polovin has served as our General Counsel since June 2020 and our Executive Vice President and Secretary since April 2024. From August 2016 to June 2020, Mr. Polovin was the General Counsel and Secretary of Uptake Technologies, Inc., a company specializing in Artificial Intelligence software for industrial machinery. Before transitioning to help lead growth stage technology companies, Mr. Polovin was a partner at the law firm of Bartlit Beck, one of the nation's leading trial boutiques, served as an Assistant United States Attorney in the Northern District of Illinois, and clerked for the Chief Judge of the United States Court of Appeals. Mr. Polovin holds a B.A. from Colgate University and a J.D. from Northwestern University School of Law.

James Rogers has served as our Chief Financial Officer since April 2021. Prior to this, Mr. Rogers served as our Vice President of Finance from February 2020 to April 2021, as our Senior Director of Finance from February 2018 to February 2020, and as our Director of Finance from August 2017 to February 2018. Prior to joining us, Mr. Rogers held various finance positions at Groupon from April 2011 to August 2017, including most recently leading financial planning and analysis for its North America business from February 2017 to August 2017 and serving as the financial controller of Asia Pacific operations from January 2015 to January 2017. Mr. Rogers holds a B.B.A. from the University of Notre Dame and an M.S. from Northern Illinois University.

Non-Employee Directors

Peter J. Barris has served as a member of our board of directors since September 2017. Mr. Barris has also served on the board of directors of Sprout Social, Inc. since February 2011. Previously, Mr. Barris served on the board of directors of Berkshire Grey, Inc. from April 2016 to July 2023, ZeroFox Holdings, Inc. from April 2014 to June 2023, NextNav Inc. from July 2014 to August 2022 and Groupon from January 2008 to August 2022. Mr. Barris joined New Enterprise Associates, Inc., or NEA, a global venture capital fund investing in technology and healthcare, where he specialized in information technology investing, in 1992 and retired at the end of 2019. Prior to his retirement, Mr. Barris held several roles at NEA, including Managing General Partner from 1999 to 2017. After retiring in 2019, Mr. Barris now serves as Chairman Emeritus of NEA. Mr. Barris holds a B.S. from Northwestern University and an M.B.A. from the Tuck School of Business at Dartmouth University. We believe that Mr. Barris is qualified to serve on our board of directors because of his investment management and financial expertise, and his experience serving on public company boards.

Eric D. Belcher has served as a member of our board of directors since January 2019. Mr. Belcher has served as the Chief Executive Officer of Market Track, LLC (d/b/a Numerator), a data and technology company in the market research industry, since June 2019. Mr. Belcher has also held various positions at InnerWorkings, Inc. since May 2005, including most recently serving as its Chief Executive Officer and President from January 2009 to April 2018. Mr. Belcher served as a member of the board of directors of InnerWorkings, Inc. from January 2009 to December 2018, including as the Chairman of its board of directors from April 2018 to September 2018. Mr. Belcher holds a bachelor's degree from Bucknell University and an M.B.A. from the University of Chicago Booth School of Business. We believe that Mr. Belcher is qualified to serve on our board of directors because of his extensive experience in the technology industry and leading high growth companies.

Jennifer A. Doudna, Ph.D. has served as a member of our board of directors since April 2021. Dr. Doudna has also served on the board of directors of Johnson & Johnson since April 2018. Since July 2002, Dr. Doudna has served as a Professor of Biochemistry & Molecular Biology at the University of California, Berkeley, where she directs the Innovative Genomics Institute, a joint UC Berkeley-UC San Francisco center, holds the Li Ka

[Table of Contents](#)

Shing Chancellor's Professorship in Biomedical and Health, and is the Chair of the Chancellor's Advisory Committee on Biology. Since 2002, Dr. Doudna has served as Principal Investigator at the Doudna Lab at UC Berkeley. Dr. Doudna has founded and served on the Scientific Advisory Boards of Caribou Biosciences, Inc. and Intellia Therapeutics, Inc., each of which are leading CRISPR genome engineering companies, since 2010. She has also been an Investigator with the Howard Hughes Medical Institute since 1997. Dr. Doudna is the recipient of numerous scientific awards in biochemistry and genetics, including the Nobel Prize in Chemistry in 2020. Dr. Doudna holds a bachelor's degree from Pomona College and a Ph.D. from Harvard Medical School. We believe that Dr. Doudna is qualified to serve on our board of directors because of her expertise in scientific research and innovation.

David R. Epstein has served as a member of our board of directors since February 2024. Mr. Epstein also serves as a board member at a privately held biotherapeutics company, Valo Health, LLC. He is a Director at the non-profit Three Opinions Foundation Inc and at South Florida's Pelican Harbor Seabird Station. Mr. Epstein previously served as the Chief Executive Officer and a member of the board of directors of Seagen Inc. (Nasdaq: SGEN) from November 2022 until Seagen's acquisition by Pfizer Inc. in December 2023. From October 2021 to December 2023, Mr. Epstein served on the board of directors of OPY Acquisition Corp. I (Nasdaq: OHAA). From June 2022 to June 2023, Mr. Epstein served as a member of the board of directors of Senti Biosciences, Inc. (Nasdaq: SENTI) and was previously a member of the board of Senti's predecessor, Dynamics Special Purpose Corp. (Nasdaq: DYNS) since March 2021. From March 2017 to February 2023, he served as a director at Evelo Biosciences, Inc. (Nasdaq: EVLO), including as the Chair of its board of directors from September 2019 to June 2022. From 2017 until October 2022, Mr. Epstein was a consultant and executive partner at Flagship Pioneering. From May 2019 to October 2022, Mr. Epstein served on the board of directors and as Chairman of Axcella Health Inc. (formerly Axcella Therapeutics) (Nasdaq: AXLA) and, from January 2017 to October 2022, Mr. Epstein served on the board of directors of Rubius Therapeutics, Inc. (Nasdaq: RUBY), he served on the board of directors of Seer, Inc. (Nasdaq: SEER). From 2010 to mid-2016, he served as the Chief Executive Officer of Novartis Pharmaceuticals, a division of Novartis AG. Previously, he started and led Novartis' Oncology and Molecular Diagnostic units. Under his leadership, Novartis' oncology business grew to the second largest in the world. Early in his career, he was an associate in the strategy practice of consulting firm Booz, Allen and Hamilton. Mr. Epstein holds a B.S. in pharmacy from Rutgers University College of Pharmacy and an M.B.A. in finance and marketing from Columbia University Graduate School of Business. We believe that Mr. Epstein is qualified to serve on our board of directors because of his extensive experience serving in executive roles in the life sciences industry and leading the development and commercialization of numerous therapeutics.

Wayne A.I. Frederick, M.D. has served as a member of our board of directors since October 2020. Dr. Frederick has served on the boards of directors of several other public companies, including serving as a member of the board of directors of Workday, Inc. since July 2022, Insulet Corp since October 2020 and Humana Inc. since February 2020. From July 2020 to October 2022, Dr. Frederick served as a member of the board of director of Forma Therapeutics Holdings, Inc. He also serves on the boards of directors of privately held companies and charitable organizations. Dr. Frederick is currently the President Emeritus of Howard University, after serving as President since July 2014, and also serves as the Charles R. Drew Endowed Chair of Surgery at Howard University's College of Medicine. Dr. Frederick holds a B.S./M.D. dual degree, and an M.B.A. from Howard University. We believe that Dr. Frederick is qualified to serve on our board of directors because of his vast experience in medical research, healthcare academics and business administration, and his service on the boards of multiple public companies.

Robert Ghenchev has served as a member of our board of directors since May 2019 and is currently employed as Managing Partner and Head of Growth Investments at Novo Holdings A/S. Prior to joining Novo Holdings in January of 2018, Mr. Ghenchev served as a Senior Vice President at Moelis & Company in London where he focused on mergers and acquisitions within the healthcare industry, from April 2010 to January 2018. Mr. Ghenchev also serves on the boards of directors of Exscientia plc, a Nasdaq-listed public company, Oxford Biomedica plc, a company listed on the London Stock Exchange, and other private companies. Mr. Ghenchev

[Table of Contents](#)

holds a B.A. in Economics and Finance from McGill University and an M.Sc. in Financial Economics from the University of Oxford. We believe that Mr. Ghenchev is qualified to serve on our board of directors because of his expertise in finance and the healthcare industry.

Scott Gottlieb, M.D. has served as a member of our board of directors since October 2019. Dr. Gottlieb has also served on the boards of directors of Illumina, Inc. since February 2020 and Pfizer Inc. since June 2019. Dr. Gottlieb has served as a Partner on NEA's healthcare investment team since April 2019, and a Resident Fellow at American Enterprise Institute since April 2021. Prior to that, he served as the 23rd Commissioner of the U.S. Food and Drug Administration from May 2017 to April 2019. Prior to serving as Commissioner, Dr. Gottlieb held several roles in the public and private sectors, including serving as a Venture Partner at NEA from January 2007 to May 2017, and a senior advisor to the Administrator of the Centers for Medicare and Medicaid Services in 2004. He is presently a contributor to CNBC and the CBS News program Face the Nation. Dr. Gottlieb holds a B.A. from Wesleyan University and an M.D. from Mount Sinai School of Medicine. We believe that Dr. Gottlieb is qualified to serve on our board of directors because of his extensive experience as a medical policy expert and public health advocate.

Theodore J. Leonsis has served as a member of our board of directors since January 2019. In November 2011, Mr. Leonsis co-founded Revolution Growth, a private investment firm, and has served as a General Partner thereof since that time. Since 1999, Mr. Leonsis has served as the Founder, Chairman, Majority Owner, and Chief Executive Officer of Monumental Sports & Entertainment, LLC, a sports, entertainment, media, and technology company that owns the NBA's Washington Wizards, the NHL's Washington Capitals, the WNBA's Washington Mystics, the Capital City Go-Go, Wizards District Gaming, Caps Gaming, the Capital One Arena in Washington, D.C. and Monumental Sports Network. Mr. Leonsis has served as a director of American Express Co. since July 2010. Mr. Leonsis has also served on the board of directors of Groupon, Inc. since June 2009, including as Chairman of the board of directors from August 2013 to November 2015 and, again, since June 2020. Mr. Leonsis also serves on the boards of directors of several private internet and technology companies, as well as charitable organizations. Mr. Leonsis holds a bachelor's degree from Georgetown University. We believe that Mr. Leonsis is qualified to serve on our board of directors because of his significant operational, investment and financial experience, and his service on the boards of two public companies.

Nadja West, M.D. has served as a member of our board of directors since April 2021. Dr. West has also served on the boards of directors of several other public companies, including serving as a member of the board of directors of Johnson & Johnson since December 2020, Tenet Healthcare Corp since October 2019, and Nucor Corporation since September 2019. From December 2015 to October 2019, Dr. West served as the 44th Surgeon General of the U.S. Army, and the Commanding General of the U.S. Army Medical Command. Dr. West currently serves as Trustee of both the National Recreation Foundation and Mount St. Mary's University, and board member of Americares and The Woodruff Foundation. She was recently appointed an independent member of the NCAA Board of Governors. Dr. West holds a B.S. from the United States Military Academy at West Point, an M.D. from the George Washington University School of Medicine, and an M.S. from National War College. We believe that Dr. West is qualified to serve on our board of directors because of her executive and operational leadership and expertise with strategic planning and healthcare management.

Composition of Our Board of Directors

Our business and affairs are managed under the direction of our board of directors, which currently consists of ten directors. Mr. Ghenchev is expected to resign from our board of directors immediately prior to the effectiveness of the registration statement of which this prospectus forms a part. Accordingly, our board of directors is expected to consist of nine directors upon the consummation of this offering. Each director is elected to the board of directors for a one-year term, to serve until the election and qualification of a successor director at our annual meeting of stockholders, or until the director's earlier removal, resignation, or death. All of our directors currently serve on the board of directors pursuant to the provisions of a voting agreement between us and several of our stockholders. This agreement will terminate upon the closing of this offering, after which there

[Table of Contents](#)

will be no further contractual obligations regarding the election of our directors. Following the closing of this offering, no stockholder will have any special rights regarding the election or designation of members of our board of directors. Our current directors will continue to serve as directors until their resignation, removal or successor is duly elected.

Director Independence

Our board of directors has undertaken a review of the independence of each director. Based on information provided by each director concerning his or her background, employment and affiliations, our board of directors has determined that none of our directors, other than Mr. Lefkofsky, has any relationships that would interfere with the exercise of independent judgment in carrying out the responsibilities of a director and that each of these directors is “independent” as that term is defined under the listing standards of the Nasdaq Stock Market. In making these determinations, our board of directors considered the current and prior relationships that each non-employee director has with our company and all other facts and circumstances our board of directors deemed relevant in determining their independence, including the beneficial ownership of our shares by each non-employee director and the transactions described in the section titled “Certain Relationships and Related Party Transactions.”

Committees of Our Board of Directors

Our board of directors has established an audit committee, a compensation committee, a nominating and corporate governance committee and an executive committee. The composition and responsibilities of each of the committees of our board of directors are described below. Members serve on these committees until their resignation or until otherwise determined by our board of directors. Our board of directors may establish other committees as it deems necessary or appropriate from time to time.

Audit Committee

After this offering, our audit committee will consist of Eric D. Belcher, Peter J. Barris and Wayne A.I. Frederick. Our board of directors has determined that each of Messrs. Belcher, Barris and Frederick satisfies the independence requirements under the Nasdaq Stock Market listing standards and Rule 10A-3(b)(1) of the Exchange Act. The chair of our audit committee will be Mr. Belcher. Our board of directors has determined that each of Messrs. Belcher and Frederick is an “audit committee financial expert” within the meaning of SEC regulations. Each member of our audit committee can read and understand fundamental financial statements in accordance with applicable requirements. In arriving at these determinations, our board of directors has examined each audit committee member’s scope of experience and the nature of their employment in the corporate finance sector.

The principal duties and responsibilities of our audit committee include, among other things:

- selecting a qualified firm to serve as the independent registered public accounting firm to audit our financial statements;
- helping to ensure the independence and performance of the independent registered public accounting firm;
- helping to maintain and foster an open avenue of communication between management and the independent registered public accounting firm;
- discussing the scope and results of the audit with the independent registered public accounting firm, and reviewing, with management and the independent accountants, our interim and year-end operating results;
- developing procedures for employees to submit concerns anonymously about questionable accounting or audit matters;

Table of Contents

- reviewing our policies on risk assessment and risk management;
- reviewing related party transactions;
- obtaining and reviewing a report by the independent registered public accounting firm at least annually, that describes its internal quality-control procedures, any material issues with such procedures, and any steps taken to deal with such issues when required by applicable law;
- approving (or, as permitted, pre-approving) all audit and all permissible non-audit services to be performed by the independent registered public accounting firm; and
- reviewing and discussing material risks relating to data privacy, technology and information security, including cybersecurity.

Our audit committee will operate under a written charter, to be effective prior to the closing of this offering, that satisfies the applicable listing standards of the Nasdaq Stock Market.

Compensation Committee

After this offering, our compensation committee will consist of Peter J. Barris, David R. Epstein and Nadja West. The chair of our compensation committee will be Mr. Barris. Our board of directors has determined that each of Messrs. Barris and Epstein and Ms. West is independent under Nasdaq listing standards and a “non-employee director” as defined in Rule 16b-3 promulgated under the Exchange Act.

The principal duties and responsibilities of our compensation committee include, among other things:

- approving the retention of compensation consultants and outside service providers and advisors;
- reviewing and approving, or recommending that our board of directors approve, the compensation, individual and corporate performance goals and objectives and other terms of employment of our executive officers, including evaluating the performance of our chief executive officer and, with his assistance, that of our other executive officers;
- reviewing and recommending to our board of directors the compensation of our directors;
- administering our equity and non-equity incentive plans;
- reviewing our practices and policies of employee compensation as they relate to risk management and risk-taking incentives;
- reviewing and evaluating succession plans for the executive officers;
- reviewing and approving, or recommending that our board of directors approve, incentive compensation and equity plans;
- overseeing our compensation clawback or similar policies; and
- reviewing and establishing general policies relating to compensation and benefits of our employees and reviewing our overall compensation philosophy.

Our compensation committee will operate under a written charter, to be effective prior to the closing of this offering, that satisfies the applicable listing standards of the Nasdaq Stock Market.

Nominating and Corporate Governance Committee

After this offering, our nominating and corporate governance committee will consist of Theodore J. Leonsis, Jennifer A. Doudna and Scott Gottlieb. The chair of our nominating and corporate governance committee will be Mr. Leonsis. Our board of directors has determined that each member of the nominating and corporate governance committee is independent under the applicable listing standards of the Nasdaq Stock Market. In addition, Mr. Lefkofsky will serve as an observer on our nominating and corporate governance committee.

The nominating and corporate governance committee's responsibilities include, among other things:

- identifying, evaluating, and selecting, or recommending that our board of directors approve, nominees for election to our board of directors and its committees;
- approving the retention of director search firms;
- evaluating the performance of our board of directors and of individual directors;
- considering and making recommendations to our board of directors regarding the composition of our board of directors and its committees;
- evaluating the adequacy of our corporate governance practices and reporting;
- overseeing our ESG activities, as applicable; and
- overseeing an annual evaluation of the board's performance.

Our nominating and corporate governance committee will operate under a written charter, to be effective prior to the closing of this offering, that satisfies the applicable listing standards of the Nasdaq Stock Market.

Executive Committee

Our board of directors has established an executive committee comprised of Peter J. Barris, Theodore J. Leonsis and Eric Lefkofsky. The executive committee was formed to facilitate approval of certain corporate actions in the intervals between full meetings of the board. The executive committee has the authority to exercise the power and authority of the board, except with respect to matters which, under the Delaware General Corporation Law or the rules and regulations of the Nasdaq Stock Market, cannot be delegated by the board of directors to a committee.

Code of Conduct

We have adopted a Code of Conduct that applies to all our employees, officers and directors. This includes our principal executive officer, principal financial officer and principal accounting officer or controller, or persons performing similar functions. The full text of our Code of Conduct will be posted on our website at www.tempus.com. We intend to disclose on our website any future amendments of our Code of Conduct or waivers that exempt any principal executive officer, principal financial officer, principal accounting officer or controller, persons performing similar functions or our directors from provisions in the Code of Conduct. Information contained on, or that can be accessed through, our website is not incorporated by reference into this prospectus, and you should not consider information on our website to be part of this prospectus.

Compensation Committee Interlocks and Insider Participation

None of the members of the compensation committee are currently, or have been at any time, one of our officers or employees. None of our executive officers currently serve, or have served during the last year, as a member of the board of directors or compensation committee of any entity that has one or more executive officers serving as a member of our board of directors or compensation committee.

Non-Employee Director Compensation

The following table sets forth information regarding compensation earned by or paid to our non-employee directors for the year ended December 31, 2023:

Name	Fees Earned or Paid in Cash	Stock Awards⁽¹⁾⁽²⁾	Total
Peter J. Barris	\$ —	\$ —	\$ —
Eric D. Belcher	—	—	—
Jennifer A. Doudna, Ph.D.	75,000	—	75,000
Wayne A.I. Frederick, M.D.	75,000	—	75,000
Robert Ghenchev	—	—	—
Scott Gottlieb, M.D.	100,000	945,500	1,045,500
Theodore J. Leonsis	—	—	—
Nadja West, M.D.	75,000	—	75,000

- (1) Amounts reported represent the aggregate grant date fair value of RSUs granted to our non-employee directors during 2023 under our 2015 Plan, computed in accordance with the Financial Accounting Standard Board Accounting Standards Codification, Topic 718, or ASC Topic 718. The assumptions used in calculating the grant date fair value of the stock awards reported in this column are set forth in the notes to our audited consolidated financial statements included elsewhere in this prospectus. This amount does not reflect the actual economic value that may be realized by the non-employee director.
- (2) As of December 31, 2023, the aggregate number of shares underlying outstanding RSUs under our 2015 Plan held by each of our non-employee directors was as follows:

Name	Number of Shares Underlying RSUs
Peter J. Barris	—
Eric D. Belcher	—
Jennifer A. Doudna, Ph.D.	25,000 ^(a)
Wayne A.I. Frederick, M.D.	25,000 ^(b)
Robert Ghenchev	—
Scott Gottlieb, M.D.	75,000 ^(c)
Theodore J. Leonsis	—
Nadja West, M.D.	25,000 ^(d)

- (a) Represents 25,000 RSUs, one fourth of which vest on April 1, 2021, and 1/16 of which vest quarterly thereafter, provided that the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company.
- (b) Represents 25,000 RSUs, 1/20 of which vest on January 1, 2021 and quarterly thereafter, provided that the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company.
- (c) Represents 50,000 RSUs, one fourth of which vest on July 1, 2020 and quarterly thereafter, and 25,000 RSUs, one fifth of which vest on July 1, 2024, and 1/20 of which vest quarterly thereafter, provided that, in each case, the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company.
- (d) Represents 25,000 RSUs, one fifth of which vest on April 1, 2021, and 1/20 of which vest quarterly thereafter, provided that the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company.

[Table of Contents](#)

In addition, in connection with Mr. Epstein's appointment to our board of directors, he received 15,000 RSUs, which vest ratably on a quarterly basis over a period of 15 quarters beginning on February 5, 2024, provided that Mr. Epstein remains in continuous service with us through each vesting date.

Mr. Lefkofsky, our Chief Executive Officer, Founder and Chairman, is also a member of our board of directors but does not receive any additional compensation for his service as a director. See the section titled "Executive Compensation" for more information regarding the compensation earned by Mr. Lefkofsky.

Non-Employee Director Compensation Policy

Our board of directors adopted a non-employee director compensation policy in February 2024 that will become effective upon the effectiveness of the registration statement of which this prospectus forms a part and will be applicable to all of our non-employee directors. This compensation policy provides that each such non-employee director will receive the following compensation for service on our board of directors:

- an annual cash retainer of \$50,000 (plus an additional \$12,500 for the non-executive chair of our board of directors or lead independent director, if any);
- an additional annual cash retainer of \$12,500 for service as a member of the audit committee, compensation committee and the nominating and corporate governance committee;
- an initial RSU grant having grant date fair value of \$500,000 on the date of each such non-employee director's appointment to our board of directors;
- a refresh RSU grant having a grant date fair value of \$500,000 on the fifth anniversary of such non-employee director's initial RSU grant or initial public offering grant, as described below; as applicable; and
- an annual RSU grant having grant date fair value of \$125,000 on the date of each of our annual stockholder meetings.

Under the non-employee director compensation policy, directors may elect to receive some or all of their eligible cash compensation in the form of RSUs.

In connection with this offering, we will grant each of our non-employee directors RSUs with a grant date fair value of \$500,000 on the date of this prospectus.

Each of the RSU grants described above under the non-employee director compensation policy will be granted under our 2024 Plan, the terms of which are described in more detail below under the section titled "Executive Compensation—Equity Incentive Plans—2024 Equity Incentive Plan." Each of the initial RSU grants and grants made in connection with this offering, as applicable, will vest in substantially equal quarterly installments over a five-year period, subject to the director's continuous service to us through each vesting date. Each annual RSU grant will vest and become exercisable subject to the director's continuous service to us through the earlier of the first anniversary of the date of grant or the next annual stockholder meeting.

EXECUTIVE COMPENSATION

Our named executive officers, consisting of our principal executive officer and the next two most highly compensated executive officers, as of December 31, 2023, were:

- Eric Lefkofsky, Chief Executive Officer, Founder and Chairman;
- James Rogers, Chief Financial Officer; and
- Ryan Fukushima, Chief Operating Officer.

Summary Compensation Table

The following table presents all of the compensation awarded to or earned by or paid to our named executive officers for the years ended December 31, 2022 and 2023:

<u>Name and Principal Position</u>	<u>Year</u>	<u>Salary</u>	<u>Bonus</u>	<u>Stock Awards⁽¹⁾</u>	<u>All Other Compensation</u>	<u>Total</u>
Eric Lefkofsky	2023	\$ —	\$ —	\$ —	\$ 2,100 ⁽²⁾	\$ 2,100
<i>Chief Executive Officer, Founder and Chairman</i>	2022	—	—	—	2,100 ⁽²⁾	2,100
James Rogers ⁽³⁾	2023	491,667	50,000	2,762,550	2,100 ⁽²⁾	3,306,317
<i>Chief Financial Officer</i>	2022	450,000	—	2,975,250	2,100 ⁽²⁾	3,427,350
Ryan Fukushima ⁽⁴⁾	2023	390,625	200,000	4,604,250	78,468 ⁽⁵⁾	5,273,343
<i>Chief Operating Officer</i>	2022	499,858	—	5,550,870	90,816 ⁽⁵⁾	6,141,544

(1) Amounts reported represent the aggregate grant date fair value of RSUs granted to our executive officers during the fiscal year under our 2015 Plan, computed in accordance with ASC Topic 718. The assumptions used in calculating the grant date fair value of the stock awards reported in this column are set forth in the notes to our audited consolidated financial statements included elsewhere in this prospectus. This amount does not reflect the actual economic value that may be realized by the executive officer.

(2) Amounts shown represents parking fees in the amount of \$2,100.

(3) Mr. Rogers' annualized base salary for 2022 was \$450,000. As described below under “—Employment Arrangements,” he entered into a new employment agreement, effective January 2023, providing for an annualized base salary of \$500,000.

(4) Mr. Fukushima's annualized base salary for 2022 was \$500,000. As described below under “—Employment Arrangements,” he entered into a new employment agreement, effective January 2023, providing for an annualized base salary of \$375,000, which represents a proration based on the amount of time subject to outside activities that Mr. Fukushima devotes to Pathos AI, Inc. See the section titled “Certain Relationships and Related Party Transactions —Agreements with Pathos” in this prospectus for more information.

(5) Amount shown represents a housing stipend earned during each of the years presented.

Outstanding Equity Awards as of December 31, 2023

The following table sets forth certain information about outstanding equity awards granted to our named executive officers that remain outstanding as of December 31, 2023:

Name	Stock Awards ⁽¹⁾			
	Grant Date	Vesting Commencement Date	Number of Shares or Units of Stock that Have Not Vested (#)	Market Value of Shares or Units of Stock that Have Not Vested ⁽²⁾
Eric Lefkofsky	July 14, 2021	February 1, 2021	4,866,000 ⁽³⁾	184,032,120
James Rogers	November 11, 2017	July 31, 2017	24,000 ⁽⁴⁾	907,680
	March 13, 2018	February 24, 2018	26,000 ⁽⁴⁾	983,320
	April 17, 2019	February 1, 2019	15,000 ⁽⁴⁾	567,300
	April 15, 2020	February 1, 2020	15,000 ⁽⁴⁾	567,300
	April 21, 2021	February 1, 2021	20,000 ⁽³⁾	756,400
	April 21, 2021	March 9, 2021	100,000 ⁽⁵⁾	3,782,000
	April 27, 2022	February 15, 2022	75,000 ⁽⁵⁾	2,836,500
	April 18, 2023	March 15, 2023	15,000 ⁽⁵⁾	567,300
	July 18, 2023	March 31, 2023	60,000 ⁽⁷⁾	2,269,200
Ryan Fukushima	March 13, 2018	September 25, 2017	100,000 ⁽⁴⁾	3,782,000
	April 17, 2019	February 1, 2019	50,000 ⁽⁴⁾	1,891,000
	October 16, 2019	October 16, 2019	100,000 ⁽⁶⁾	3,782,000
	April 21, 2021	February 1, 2021	150,000 ⁽³⁾	5,673,000
	April 21, 2021	February 1, 2021	3,500 ⁽⁴⁾	132,370
	January 3, 2022	January 3, 2022	75,000 ⁽⁵⁾	2,836,500
	April 27, 2022	February 15, 2022	36,000 ⁽⁵⁾	1,361,520
	April 18, 2023	March 15, 2023	25,000 ⁽⁵⁾	945,500
	July 18, 2023	March 31, 2023	100,000 ⁽⁸⁾	3,782,000

- (1) All stock awards listed in this table represent RSUs granted pursuant to our 2015 Plan, the terms of which are described below under “—Equity Incentive Plans—2015 Stock Plan.”
- (2) This column represents the fair market value of a share of our common stock of \$37.82 as of December 31, 2023 as determined by our board of directors, multiplied by the amount shown in the column “Stock Awards—Number of Shares or Units of Stock that Have Not Vested.”
- (3) One fourth of these RSUs vest on the one-year anniversary of the vesting commencement date and 1/12 of the remaining RSUs vest quarterly thereafter, provided that the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company, each of which we refer to as a Liquidity Event. These PSUs were originally granted as Performance-Vesting Restricted Stock Unit awards, or PSUs, which included both a Liquidity Event vesting requirement and a performance-vesting condition. In July 2023, our board of directors approved the removal of the performance-vesting condition, following which these PSUs are treated as RSUs, as more fully described in the section titled “—Equity Incentive Plans—2015 Stock Plan” below.
- (4) One fourth of these RSUs vest on the one-year anniversary of the vesting commencement date and 1/12 of the remaining RSUs vest quarterly thereafter, provided that the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company.
- (5) One fifth of these RSUs vest on the one-year anniversary of the vesting commencement date and 1/16 of the remaining RSUs vest quarterly thereafter, provided that the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company.

[Table of Contents](#)

- (6) These RSUs have satisfied the service-based vesting requirement, and will become fully vested and settleable upon the occurrence of a Liquidity Event, provided that the recipient remains in continuous service with us through such vesting date.
- (7) 1/24 of these RSUs vest quarterly during the first year commencing on the vesting commencement date, 1/12 of these RSUs vest quarterly during the second year and one eighth of these RSUs vest quarterly during the third year, provided that the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company.
- (8) One eighth of these RSUs vest quarterly starting on the second anniversary of the vesting commencement date, provided that the recipient remains in continuous service with us through each vesting date, and subject to the earlier to occur of (i) the consummation of this offering and (ii) a change in control of our company.

See “—Employment Arrangements” for a description of vesting acceleration applicable to stock awards held by our named executive officers.

We may in the future, on an annual basis or otherwise, grant additional equity awards to our executive officers pursuant to our 2024 Plan the terms of which are described below under “—Equity Incentive Plans—2024 Equity Incentive Plan.”

Employment Arrangements

We have entered into employment agreements with each of our named executive officers setting forth the terms and conditions of such executive’s employment with us. The employment agreements generally provide for at-will employment and set forth the executive officer’s initial base salary. Each of our named executive officers has also executed our standard form of proprietary information and inventions assignment agreement. Our current named executive officers are eligible to participate in our employee benefit plans, including our medical, dental, vision, disability and life insurance plans, in each case on the same basis as all of our other employees. Other than as described herein, we generally do not provide perquisites or personal benefits to our named executive officers.

Eric Lefkofsky

We entered into a new employment agreement with Mr. Lefkofsky, our Chief Executive Officer, effective as of the date of this prospectus. Mr. Lefkofsky’s employment agreement provides for an annual base salary of \$800,000 beginning on January 1, 2025, and an annual cash bonus of \$800,000, in each case, subject to review and adjustment by the company in its sole discretion.

Under the terms of his employment agreement, if Mr. Lefkofsky resigns for Good Reason or we terminate Mr. Lefkofsky’s employment without Cause (each as defined in his employment agreement), in either case in the event of a Change in Control (as defined in the 2024 Plan), 100% of his then-unvested equity will immediately accelerate, vest and become exercisable. In addition, on the date of this prospectus, we will grant Mr. Lefkofsky 750,000 RSUs under the 2024 Plan, which will vest in substantially equal quarterly installments over a five-year period.

James Rogers

We entered into a new employment agreement with Mr. Rogers, our Chief Financial Officer, effective January 2023. Mr. Rogers’ employment agreement provides for an annual base salary of \$500,000, which is subject to review and adjustment by the company in its sole discretion.

Under the terms of his employment agreement, if Mr. Rogers resigns for Good Reason or we terminate his employment without Cause (each as defined in his employment agreement), then Mr. Rogers will be eligible to

[Table of Contents](#)

receive salary continuation and reimbursement of premiums to continue health care benefits for a period of twelve months, subject to his execution of a general release in favor of our company. Further, if Mr. Rogers resigns for Good Reason or we terminate Mr. Rogers' employment without Cause, in either case in the event of a Change in Control (as defined in our 2015 Plan), 100% of his then-unvested equity will immediately accelerate, vest and become exercisable.

Ryan Fukushima

We entered into a new employment agreement with Mr. Fukushima, our Chief Operating Officer, effective January 2023. Mr. Fukushima's employment agreement provides for an annual base salary of \$375,000 which is subject to review and adjustment by the company in its sole discretion.

Under the terms of his employment agreement, if Mr. Fukushima resigns for Good Reason or we terminate his employment without Cause (each as defined in his employment agreement), then Mr. Fukushima will be eligible to receive salary continuation and reimbursement of premiums to continue health care benefits for a period of twelve months, subject to his execution of a general release in favor of our company. Further, if Mr. Fukushima resigns for Good Reason or we terminate Mr. Fukushima's employment without Cause, in either case in the event of a Change in Control (as defined in our 2015 Plan), 100% of his then-unvested equity will immediately accelerate, vest and become exercisable.

Equity Incentive Plans

2024 Equity Incentive Plan

Our board of directors intends to adopt the 2024 Equity Incentive Plan, or the 2024 Plan, that will become effective on the date of the underwriting agreement related to this offering. Our 2024 Plan will come into existence upon its adoption by our board of directors, but no grants will be made under our 2024 Plan prior to its effectiveness. Once our 2024 Plan becomes effective, no further grants will be made under our 2015 Plan.

Types of Awards. Our 2024 Plan provides for the grant of incentive stock options, or ISOs, nonstatutory stock options, or NSOs, stock appreciation rights, restricted stock awards, restricted stock unit awards, performance-based awards and other awards, or collectively, awards. ISOs may be granted only to our employees, including our officers, and the employees of our affiliates. All other awards may be granted to our employees, including our officers, our non-employee directors and consultants and the employees and consultants of our affiliates.

Authorized Shares. The maximum number of shares of our Class A common stock that may be issued under our 2024 Plan is 7,430,000 shares of our Class A common stock. The number of shares of our Class A common stock reserved for issuance under our 2024 Plan will automatically increase on January 1 of each year, beginning on January 1, 2025, and continuing through and including January 1, 2034, in an amount equal to either (i) a number of shares of our Class A common stock or, the Evergreen Increase, such that the sum of (x) the remaining number of shares available under the 2024 Plan and (y) the Evergreen Increase is equal to 5% of the total number of shares of common stock (both Class A and Class B) outstanding on December 31 of the preceding calendar year, or (ii) a lesser number of shares determined by our board of directors prior to the applicable January 1. The maximum number of shares that may be issued upon the exercise of ISOs under our 2024 Plan is 22,290,000 shares.

Shares issued under our 2024 Plan will be authorized but unissued or reacquired shares of Class A common stock. Shares subject to awards granted under our 2024 Plan that expire or terminate without being exercised in full, or that are paid out in cash rather than in shares, will not reduce the number of shares available for issuance under our 2024 Plan. Additionally, shares issued pursuant to awards under our 2024 Plan that we repurchase or that are forfeited, as well as shares used to pay the exercise price of an award or to satisfy the tax withholding obligations to an award, will become available for future grant under our 2024 Plan.

[Table of Contents](#)

The maximum number of shares of our Class A common stock subject to stock awards granted under the 2024 Plan or otherwise during any calendar year beginning in 2025 to any non-employee director, taken together with any cash fees paid by us to such non-employee director during such calendar year for service on the board of directors, will not exceed \$750,000 in total value (calculating the value of any such stock awards based on the grant date fair value of such stock awards for financial reporting purposes), or, with respect to the calendar year in which a non-employee director is first appointed or elected to our board of directors, \$1,000,000.

Plan Administration. Our board of directors, or a duly authorized committee of our board, may administer our 2024 Plan. Our board of directors has delegated concurrent authority to administer our 2024 Plan to the compensation committee under the terms of the compensation committee's charter. We sometimes refer to the board of directors, or the applicable committee with the power to administer our equity incentive plans, as the administrator. The administrator may also delegate to one or more of our officers the authority to (1) designate employees (other than officers) to receive specified awards, and (2) determine the number of shares subject to such awards.

The administrator has the authority to determine the terms of awards, including recipients, the exercise, purchase or strike price of awards, if any, the number of shares subject to each award, the fair market value of a share of our Class A common stock, the vesting schedule applicable to the awards, together with any vesting acceleration, and the form of consideration, if any, payable upon exercise or settlement of the award and the terms of the award agreements for use under our 2024 Plan.

In addition, subject to the terms of the 2024 Plan, the administrator also has the power to modify outstanding awards under our 2024 Plan, including the authority to reprice any outstanding option or stock appreciation right, cancel and re-grant any outstanding option or stock appreciation right in exchange for new stock awards, cash or other consideration, or take any other action that is treated as a repricing under generally accepted accounting principles, with the consent of any materially adversely affected participant.

Stock Options. ISOs and NSOs are granted pursuant to stock option agreements adopted by the administrator. The administrator determines the exercise price for a stock option, within the terms and conditions of the 2021 Plan, provided that the exercise price of a stock option generally cannot be less than 100% of the fair market value of our Class A common stock on the date of grant. Options granted under the 2024 Plan vest at the rate specified in the stock option agreement as specified in the stock option agreement by the administrator.

The administrator determines the term of stock options granted under the 2024 Plan, up to a maximum of ten years. Unless the terms of an optionholder's stock option agreement provide otherwise, if an optionholder's service relationship with us, or any of our affiliates, ceases for any reason other than disability, death or cause, the optionholder may generally exercise any vested options for a period of three months following the cessation of service. The option term may be extended in the event that either an exercise of the option or an immediate sale of shares acquired upon exercise of the option following such a termination of service is prohibited by applicable securities laws or our insider trading policy. If an optionholder's service relationship with us or any of our affiliates ceases due to disability or death, or an optionholder dies within a certain period following cessation of service, the optionholder or a beneficiary may generally exercise any vested options for a period of 12 months in the event of disability and 18 months in the event of death. In the event of a termination for cause, options generally terminate immediately upon the termination of the individual for cause. In no event may an option be exercised beyond the expiration of its term.

Acceptable consideration for the purchase of our Class A common stock issued upon the exercise of a stock option will be determined by the administrator and may include (1) cash, check, bank draft or money order, (2) a broker-assisted cashless exercise, (3) the tender of shares of Class A common stock previously owned by the optionholder, (4) a net exercise of the option if it is an NSO and (5) other legal consideration approved by the administrator.

[Table of Contents](#)

Options may not be transferred to third-party financial institutions for value. Unless the administrator provides otherwise, options generally are not transferable except by will, the laws of descent and distribution or pursuant to a domestic relations order. An optionholder may designate a beneficiary, however, who may exercise the option following the optionholder's death.

Tax Limitations on ISOs. The aggregate fair market value, determined at the time of grant, of our Class A common stock with respect to ISOs that are exercisable for the first time by an option holder during any calendar year under all of our stock plans may not exceed \$100,000. Options or portions thereof that exceed such limit will be treated as NSOs. No ISOs may be granted to any person who, at the time of the grant, owns or is deemed to own stock possessing more than 10% of our total combined voting power or that of any of our parent or subsidiary corporations, unless (1) the option exercise price is at least 110% of the fair market value of the stock subject to the option on the date of grant and (2) the term of the ISO does not exceed five years from the date of grant.

Restricted Stock Awards. Restricted stock awards are granted pursuant to restricted stock award agreements adopted by the administrator. Restricted stock awards may be granted in consideration for cash, check, bank draft or money order, services rendered to us or our affiliates or any other form of legal consideration. Class A common stock acquired under a restricted stock award may, but need not, be subject to a share repurchase option in our favor in accordance with a vesting schedule to be determined by the administrator. A restricted stock award may be transferred only upon such terms and conditions as set by the administrator. Except as otherwise provided in the applicable award agreement, restricted stock awards that have not vested may be forfeited or repurchased by us upon the participant's cessation of continuous service for any reason.

Restricted Stock Unit Awards. Restricted stock unit awards are granted pursuant to restricted stock unit award agreements adopted by the administrator. Restricted stock unit awards may be granted in consideration for any form of legal consideration. A restricted stock unit award may be settled by cash, delivery of stock, a combination of cash and stock as deemed appropriate by the administrator or in any other form of consideration set forth in the restricted stock unit award agreement. Additionally, dividend equivalents may be credited in respect of shares covered by a restricted stock unit award. Except as otherwise provided in the applicable award agreement, restricted stock units that have not vested will be forfeited upon the participant's cessation of continuous service for any reason.

Stock Appreciation Rights. Stock appreciation rights are granted pursuant to stock appreciation right grant agreements adopted by the administrator. The administrator determines the strike price for a stock appreciation right, which generally cannot be less than 100% of the fair market value of our Class A common stock on the date of grant. Upon the exercise of a stock appreciation right, we will pay the participant an amount equal to the product of (1) the excess of the per share fair market value of our Class A common stock on the date of exercise over the strike price, multiplied by (2) the number of shares of our Class A common stock with respect to which the stock appreciation right is exercised. A stock appreciation right granted under the 2024 Plan vests at the rate specified in the stock appreciation right agreement as determined by the administrator.

The administrator determines the term of stock appreciation rights granted under the 2024 Plan, up to a maximum of ten years. Unless the terms of a participant's stock appreciation right agreement provide otherwise, if a participant's service relationship with us or any of our affiliates ceases for any reason other than cause, disability or death, the participant may generally exercise any vested stock appreciation right for a period of three months following the cessation of service. The stock appreciation right term may be further extended in the event that exercise of the stock appreciation right following such a termination of service is prohibited by applicable securities laws. If a participant's service relationship with us, or any of our affiliates, ceases due to disability or death, or a participant dies within a certain period following cessation of service, the participant or a beneficiary may generally exercise any vested stock appreciation right for a period of 12 months in the event of disability and 18 months in the event of death. In the event of a termination for cause, stock appreciation rights generally terminate immediately upon the occurrence of the event giving rise to the termination of the individual for cause. In no event may a stock appreciation right be exercised beyond the expiration of its term.

[Table of Contents](#)

Performance Awards. Our 2024 Plan permits the grant of performance-based stock and cash awards. The compensation committee can structure such awards so that the stock or cash will be issued or paid pursuant to such award only following the achievement of certain pre-established performance goals during a designated performance period. Performance awards that are settled in cash or other property are not required to be valued in whole or in part by reference to, or otherwise based on, our Class A common stock.

The performance goals may be based on any measure of performance selected by the board of directors. The compensation committee may establish performance goals on a company-wide basis, with respect to one or more business units, divisions, affiliates or business segments, and in either absolute terms or relative to the performance of one or more comparable companies or the performance of one or more relevant indices. Unless specified otherwise (i) in the award agreement at the time the award is granted or (ii) in such other document setting forth the performance goals at the time the goals are established, the compensation committee will appropriately make adjustments in the method of calculating the attainment of the performance goals as follows: (1) to exclude restructuring and/or other nonrecurring charges; (2) to exclude exchange rate effects; (3) to exclude the effects of changes to generally accepted accounting principles; (4) to exclude the effects of any statutory adjustments to corporate tax rates; (5) to exclude the effects of items that are “unusual” in nature or occur “infrequently” as determined under generally accepted accounting principles; (6) to exclude the dilutive effects of acquisitions or joint ventures; (7) to assume that any business divested by us achieved performance objectives at targeted levels during the balance of a performance period following such divestiture; (8) to exclude the effect of any change in the outstanding shares of common stock by reason of any stock dividend or split, stock repurchase, reorganization, recapitalization, merger, consolidation, spin-off, combination or exchange of shares or other similar corporate change, or any distributions to common stockholders other than regular cash dividends; (9) to exclude the effects of stock-based compensation and the award of bonuses under our bonus plans; (10) to exclude costs incurred in connection with potential acquisitions or divestitures that are required to be expensed under generally accepted accounting principles and (11) to exclude the goodwill and intangible asset impairment charges that are required to be recorded under generally accepted accounting principles.

Other Awards. The administrator may grant other awards based in whole or in part by reference to our Class A common stock. The administrator will set the number of shares under the award and all other terms and conditions of such awards.

Changes to Capital Structure. In the event there is a specified type of change in our capital structure, such as a stock split, reverse stock split or recapitalization, appropriate adjustments will be made to (1) the class and maximum number of shares reserved for issuance under the 2024 Plan; (2) the class and maximum number of shares by which the share reserve may increase automatically each year; (3) the class and maximum number of shares that may be issued upon the exercise of ISOs and (4) the class and number of shares and exercise price, strike price, or purchase price, if applicable, of all outstanding awards.

Corporate Transactions. The following applies to stock awards under the 2024 Plan in the event of a corporate transaction, unless otherwise provided in a participant’s stock award agreement or other written agreement with us or one of our affiliates or unless otherwise expressly provided by the administrator at the time of grant. Under the 2024 Plan, a corporate transaction is generally the consummation of (1) a sale or other disposition of all or substantially all of our assets, (2) a sale or other disposition of at least 50% of our outstanding securities, (3) a merger, consolidation or similar transaction following which we are not the surviving corporation or (4) a merger, consolidation or similar transaction following which we are the surviving corporation but the shares of our Class A common stock outstanding immediately prior to such transaction are converted or exchanged into other property by virtue of the transaction.

In the event of a corporate transaction, any stock awards outstanding under the 2024 Plan may be assumed, continued or substituted for by any surviving or acquiring corporation (or its parent company), and any reacquisition or repurchase rights held by us with respect to the stock award may be assigned to the successor (or its parent company). If the surviving or acquiring corporation (or its parent company) does not assume, continue

[Table of Contents](#)

or substitute for such stock awards, then (i) with respect to any such stock awards that are held by participants whose continuous service has not terminated prior to the effective time of the corporate transaction, or current participants, the vesting (and exercisability, if applicable) of such stock awards will be accelerated in full to a date prior to the effective time of the corporate transaction (contingent upon the effectiveness of the corporate transaction), and such stock awards will terminate if not exercised (if applicable) at or prior to the effective time of the corporate transaction, and any reacquisition or repurchase rights held by us with respect to such stock awards will lapse (contingent upon the effectiveness of the corporate transaction), and (ii) any such stock awards that are held by persons other than current participants will terminate if not exercised (if applicable) prior to the effective time of the corporate transaction, except that any reacquisition or repurchase rights held by us with respect to such stock awards will not terminate and may continue to be exercised notwithstanding the corporate transaction. In addition, the plan administrator may also provide, in its sole discretion, that the holder of a stock award that will terminate upon the occurrence of a corporate transaction if not previously exercised will receive a payment, if any, equal to the excess of the value of the property the participant would have received upon exercise of the stock award over the exercise price otherwise payable in connection with the stock award.

A stock award may be subject to additional acceleration of vesting and exercisability upon or after a change in control as may be provided in an applicable award agreement or other written agreement, but in the absence of such provision, no such acceleration will occur.

Change in Control. In the event of a change in control, as defined under our 2024 Plan, awards granted under our 2024 Plan will not receive automatic acceleration of vesting and exercisability, although this treatment may be provided for in an award agreement.

Clawback. All awards granted under the 2024 Plan will be subject to recoupment in accordance with any clawback policy that we are required to adopt pursuant to the listing standards of any national securities exchange or association on which our securities are listed or as is otherwise required by the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act or other applicable law. In addition, our board of directors may impose such other clawback, recovery or recoupment provisions in a stock award agreement as our board of directors determines necessary or appropriate.

Transferability. A participant may not transfer awards under our 2024 Plan other than by will, the laws of descent and distribution or as otherwise provided under our 2024 Plan.

Plan Amendment or Termination. Our board has the authority to amend, suspend or terminate our 2024 Plan, provided that such action does not materially impair the existing rights of any participant without such participant's written consent. Certain material amendments also require the approval of our stockholders. No ISOs may be granted after the tenth anniversary of the date our board adopted our 2024 Plan. No awards may be granted under our 2024 Plan while it is suspended or after it is terminated.

2024 Employee Stock Purchase Plan

Our board of directors has adopted the ESPP that will become effective immediately prior to and contingent upon the date of the underwriting agreement related to this offering. The purpose of our ESPP will be to secure the services of new employees, to retain the services of existing employees, and to provide incentives for such individuals to exert maximum efforts toward our success and that of our affiliates. The ESPP is implemented through a series of offerings with specific terms approved by the administrator and under which eligible employees are granted purchase rights to purchase shares of our Class A common stock on specified dates during such offerings. Generally, all regular employees, including executive officers, employed by us or by any of our designated affiliates, may participate in the ESPP and may contribute, normally through payroll deductions, with a maximum dollar amount as designated by the administrator. The maximum aggregate number of shares of our Class A common stock that may be issued under our ESPP is 3,000,000 shares. The number of shares of our Class A common stock reserved for issuance under our ESPP will automatically increase on January 1 of each calendar year, beginning on January 1, 2025 and continuing through and including January 1, 2034, by the lesser

[Table of Contents](#)

of (1) 2% of the aggregate number of shares of common stock (both Class A and Class B) outstanding on December 31 of the preceding calendar year, (2) 9,000,000 shares and (3) a number of shares determined by our board. Shares subject to purchase rights granted under our ESPP that terminate without having been exercised in full will not reduce the number of shares available for issuance under our ESPP. Our board, or a duly authorized committee thereof, will administer our ESPP, but no offering periods under the ESPP will commence unless and until otherwise determined by our board of directors. The implementation of the ESPP and the terms of the offerings thereunder, if any, will be in the discretion of the administrator. The administrator does not currently have any intention to make offerings available under the ESPP.

2015 Stock Plan

The 2015 Plan was adopted by our board of directors and approved by our stockholders in September 2015. Our 2015 Plan has been periodically amended, most recently in July 2023. The 2015 Plan provides for the grant of ISOs, NSOs, restricted stock awards, RSUs, PSUs, and other stock-based awards. Our employees, officers, directors, consultants and advisors are eligible to receive awards under the 2015 Plan; however, ISOs may only be granted to our employees.

Awards. As of March 31, 2024, there were 20,793,305 shares of common stock issuable upon the vesting and settlement of RSUs outstanding under the 2015 Plan, there were 4,250,000 shares of fully vested restricted stock outstanding under the 2015 Plan, there were 210,000 shares of common stock issuable upon the exercise of stock options outstanding under the 2015 Plan at an exercise price of \$0.8542 per share, no options to purchase shares of our common stock had been exercised, and 2,517,445 shares of common stock were available for future issuance under the 2015 Plan. In February 2022 and April 2023, we increased the share reserve under the 2015 plan by 3,000,000 shares, respectively. On and after the effective date of the 2024 Plan described above, we will grant no further stock options or other awards under the 2015 Plan.

Authorized Shares. Subject to certain adjustments as provided in the 2015 Plan, the maximum aggregate number of shares of our Class A common stock that may be issued pursuant to awards under the 2015 Plan will not exceed 28,115,750 shares. The maximum number of shares of Class A common stock that may be issued pursuant to the exercise of ISOs under our 2015 Plan is 28,115,750 shares. Shares issued under our 2015 Plan will consist of authorized but unissued or reacquired shares of common stock or any combination thereof. Shares subject to awards granted under our 2015 Plan that expire, terminate, are cancelled without having been exercised or settled in full, are forfeited or repurchased for an amount not greater than the recipient's exercise or purchase price, will again become available for future grant under our 2015 Plan. Further, shares of Class A common stock tendered to us by a participant to exercise an award shall be added to shares of Class A common stock available for the grant of awards under the 2015 Plan. Additionally, shares underlying awards that are paid out in cash rather than in shares or withheld or reacquired to satisfy tax withholding obligations related to an award, will not reduce the number of shares available for issuance under our 2015 Plan.

Plan Administration. The 2015 Plan is administered by our board of directors. Our board of directors has broad discretion to administer the 2015 Plan, including the power and authority to determine the eligible individuals to whom awards will be granted, the number and type of awards to be granted and the terms and conditions of awards. The board may also accelerate the vesting or exercise of any award, reprice or otherwise adjust the exercise price of options or grant a new option in substitution for any option and make all other determinations, perform all other actions with respect to the 2015 Plan or any award thereunder as the board deems advisable to the extent not inconsistent with the provisions of the 2015 Plan or applicable law.

Stock Options. ISOs and NSOs granted under the 2015 Plan are evidenced by award agreements established by our board of directors. Our board of directors determines the exercise price of the stock options, within the terms and conditions of the 2015 Plan, provided that the exercise price of a stock option generally cannot be less than 100% of the fair market value of a share of Class A common stock on the date of grant. Options granted under the 2015 Plan vest at the rate specified in the option agreement as determined by the board. The term of an option may not exceed 10 years. Unless the board provides otherwise, if a participant's service relationship with

[Table of Contents](#)

us, our parent or subsidiary, or collectively, our affiliates, ceases for any reason other than due to the participant's disability or death or a termination for cause, the participant may generally exercise any vested options for a period of three months following the cessation of service. This period may be extended in the event that exercise of the option is prohibited by applicable securities laws. If a participant's service relationship with us or our affiliates ceases due to disability or death, the participant's legal representative or a beneficiary may generally exercise any vested options for a period of 12 months following the cessation of service. In the event that a participant's service relationship with us is terminated for cause, options held by the participant will terminate in their entirety upon the termination date. In no event may an option be exercised beyond the expiration of its term.

Tax Limitations on ISOs. The aggregate fair market value, determined at the time of grant, of an award consisting of ISOs that are exercisable for the first time by a participant during any calendar year under all of our stock plans may not exceed \$100,000. Options or portions thereof that exceed such limit will generally be treated as NSOs. No ISO may be granted to any person who, at the time of the grant, owns or is deemed to own shares of common stock possessing more than 10% of our total combined voting power unless (1) the option exercise price is at least 110% of the fair market value of the shares of common stock subject to the option on the date of grant and (2) the term of the ISO does not exceed five years from the date of grant.

Restricted Stock Awards. RSAs may be granted in the form of restricted stock bonuses, which are shares of Class A common stock for which no monetary payment is required, or restricted stock purchase rights, which are shares of Class A common stock for which a purchase price must be paid. Our board of directors determines the terms and conditions of RSAs, including purchase price, if any, vesting and forfeiture terms. In general, during any vesting period, a participant will have all of the rights of a stockholder holding shares of Class A common stock. If determined by the board and provided in an award agreement, dividends distributed prior to vesting will be subject to the same restrictions and risk of forfeiture as the restricted stock with respect to which the distribution was made. Except as otherwise provided in an award agreement, if a participant's service relationship with us ends for any reason, (1) we may repurchase any shares acquired pursuant to a restricted stock purchase right that remains subject to vesting conditions upon a participant's termination and (2) the participant will forfeit any shares under a restricted stock bonus award that have not vested as of the date of termination.

Restricted Stock Unit Awards. An RSU represents the right to receive on a future date or event a share of Class A common stock or an amount of cash in lieu thereof. RSU awards may be granted in consideration for services actually rendered to us or our affiliates or for the benefit of us or our affiliates. An RSU award may be settled in cash or by delivery of stock or other property as deemed appropriate by the board. Additionally, if provided in the award agreement, dividend equivalents may be credited in respect of shares covered by an RSU award. Except as otherwise provided in the applicable award agreement, RSU awards that have not vested will be forfeited once the participant's continuous service ends for any reason.

In general, RSU awards that have been granted under the 2015 Plan are subject to both a multi-year service-based vesting requirement and a "Liquidity Event" vesting requirement. The Liquidity Event requirement will be satisfied on the first to occur of: (1) a change in control (as described below) or (2) the effective date of a registration statement under the Securities Act of 1933, as amended, or the Securities Act, for the sale of our Class A common stock, or the Liquidity Event Date. The RSU awards vest as follows:

- No RSUs will vest prior to the Liquidity Event Date.
- If the Liquidity Event Date occurs prior to the first anniversary of the vesting start date, then no RSUs will vest on the Liquidity Event Date and thereafter 1/16th of the RSUs will vest for each full three months of continuous service elapsed from the first anniversary of the vesting start date, subject to the participant's continuous service.
- If the Liquidity Event Date occurs on or after the first anniversary of the vesting start date but prior to the second anniversary of the vesting start date, then 1/4th of the RSUs will vest on the Liquidity Event Date and thereafter an additional 1/16th of the RSUs will vest for each full three months of continuous service elapsed from the first anniversary of the vesting start date, subject to the participant's continuous service.

Table of Contents

- If the Liquidity Event Date occurs after the second anniversary of the vesting start date then 1/16th of the RSUs will vest on the Liquidity Event Date for each full three months that has elapsed since the vesting start date and thereafter an additional 1/16th of the RSUs will vest for each full three months that occurs from the vesting start date, subject to the participant's continuous service.

We have also granted PSUs, which include both a Liquidity Event vesting requirement and a performance-vesting condition. Like the RSU awards, the Liquidity Event requirement of the PSUs will be satisfied on the Liquidity Event Date. The performance-vesting condition of the PSUs will be satisfied in full, if, on the Liquidity Event Date, the total enterprise valuation of the company equals or exceeds \$6 billion, subject to certain adjustments as described in the 2015 Plan. In July 2023, our board of directors approved the removal of the performance-vesting condition, following which the PSUs are treated as RSUs as the terms of such PSUs are consistent with those of our outstanding RSUs.

Transferability. Awards are generally not transferable other than by will or the laws of descent and distribution. The board, in its discretion, may allow certain transfers of options as set forth in an award agreement and subject to certain securities law restrictions.

Adjustments. In the event of certain corporate events or changes in our capitalization, the board will make adjustments to one or more of the number and kind of shares that may be delivered under the 2015 Plan or covered by each outstanding award, the ISO share reserve under the 2015 Plan and the exercise or purchase price per share of outstanding awards in order to prevent dilution or enlargement of the participants' rights under the 2015 Plan.

Change in Control. Upon a change in control, without the consent of any participant, the board may provide for any one or more of the following:

- accelerate the time of exercisability, vesting and/or settlement of an award,
- the assumption or substitution of outstanding award by a surviving, continuing, successor or purchasing corporation or other business entity (or any parent thereof); or
- awards to be cancelled, to the extent not vested or exercised before the transaction, in exchange for such cash, stock or other property in an amount equal to the excess, if any, of (1) the fair market value of the consideration paid in the transaction, over (2) any exercise or purchase price payable under such award.

Under the 2015 Plan, a change in control is generally (1) an indirect sale or exchange by our stockholders of securities representing more than 50% of the total combined voting power of then outstanding voting securities entitled to vote generally in the election of directors, (2) a merger or consolidation in which we are a party, (3) the sale, exchange or transfer of all or substantially all our assets, or (4) our complete liquidation or dissolution.

Withholding. We have the right to deduct from any and all payments made under the 2015 Plan, or to require the participant, through payroll withholding, cash payment or otherwise, to satisfy any federal, state, local and foreign taxes that are required to be withheld. We are under no obligation to deliver shares of common stock or to release shares from an escrow or to make any payment in cash until such tax withholding obligations have been satisfied by the participant.

Plan Amendment and Termination. The 2015 Plan will continue in effect until its termination by our board, provided that all awards under the 2015 Plan will be granted, if at all, within ten (10) years from the date the 2015 Plan was adopted by our board. Our board may amend, suspend or terminate the 2015 Plan at any time, provided that without stockholder approval, the 2015 Plan cannot be amended to increase the number of shares authorized, change the class of persons eligible to receive incentive stock options, or effect any other change that would require stockholder approval under any applicable law or listing rule. In general, no amendment, suspension or termination of the 2015 Plan may have a materially adverse effect on any outstanding award without the consent of the participant.

Limitations of Liability and Indemnification Matters

On the closing of this offering, our amended and restated certificate of incorporation will contain provisions that limit the liability of our current and former directors for monetary damages to the fullest extent permitted by Delaware law. Delaware law provides that directors of a corporation will not be personally liable for monetary damages for any breach of fiduciary duties as directors, except liability for:

- any breach of the director's duty of loyalty to the corporation or its stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- unlawful payments of dividends or unlawful stock repurchases or redemptions; or
- any transaction from which the director derived an improper personal benefit.

Such limitation of liability does not apply to liabilities arising under federal securities laws and does not affect the availability of equitable remedies such as injunctive relief or rescission.

Our amended and restated certificate of incorporation that will be in effect on the closing of this offering will authorize us to indemnify our directors, officers, employees, and other agents to the fullest extent permitted by Delaware law. Our amended and restated bylaws that will be in effect on the closing of this offering will provide that we are required to indemnify our directors and officers to the fullest extent permitted by Delaware law and may indemnify our other employees and agents. Our amended and restated bylaws that will be in effect on the closing of this offering will also provide that, on satisfaction of certain conditions, we will advance expenses incurred by a director or officer in advance of the final disposition of any action or proceeding, and permit us to secure insurance on behalf of any officer, director, employee, or other agent for any liability arising out of his or her actions in that capacity regardless of whether we would otherwise be permitted to indemnify him or her under the provisions of Delaware law. We have entered and expect to continue to enter into agreements to indemnify our directors, executive officers, and other employees as determined by the board of directors. With certain exceptions, these agreements provide for indemnification for related expenses including attorneys' fees, judgments, fines, and settlement amounts incurred by any of these individuals in any action or proceeding. We believe that these amended and restated certificate of incorporation and amended and restated bylaw provisions and indemnification agreements are necessary to attract and retain qualified persons as directors and officers. We also maintain customary directors' and officers' liability insurance.

The limitation of liability and indemnification provisions in our amended and restated certificate of incorporation and amended and restated bylaws may discourage stockholders from bringing a lawsuit against our directors for breach of their fiduciary duty. They may also reduce the likelihood of derivative litigation against our directors and officers, even though an action, if successful, might benefit us and other stockholders. Further, a stockholder's investment may be adversely affected to the extent that we pay the costs of settlement and damage awards against directors and officers as required by these indemnification provisions.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted for directors, executive officers, or persons controlling us, we have been informed that, in the opinion of the SEC, such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

Rule 10b5-1 Sales Plans

Our directors and officers may adopt written plans, known as Rule 10b5-1 plans, in which they will contract with a broker to buy or sell shares of our Class A common stock or Class B common stock on a periodic basis. Under a Rule 10b5-1 plan, a broker executes trades under parameters established by the director or officer when entering into the plan, without further direction from them. The director or officer may amend a Rule 10b5-1 plan in some circumstances and may terminate a plan at any time. Our directors and executive officers may also buy or sell additional shares outside of a Rule 10b5-1 plan when they do not possess of material nonpublic information, subject to compliance with the terms of our insider trading policy.

CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS

Other than compensation arrangements for our directors and executive officers, which are described elsewhere in this prospectus, below we describe transactions since January 1, 2021 to which we were a party or will be a party, in which:

- the amounts involved exceeded or will exceed \$120,000; and
- any of our directors, executive officers or holders of more than 5% of our capital stock at the time of such transaction, or any member of the immediate family of, or person sharing the household with, the foregoing persons, had or will have a direct or indirect material interest.

Series G-2 Convertible Preferred Stock Financing

In November 2020 and January 2021, we sold an aggregate of 3,453,139 shares of our Series G-2 convertible preferred stock at a price per share of \$57.3069 for an aggregate purchase price of approximately \$189.0 million in private placements to accredited investors. During this period, we issued a total of 3,584,015 shares of our Series G-2 convertible preferred stock, of which 130,876 shares of our Series G-2 convertible preferred stock were repurchased from Blue Media, LLC at the original issue price per share, for an aggregate repurchase price of approximately \$7.5 million, in order to accommodate the issuance and sale of shares of our Series G-2 convertible preferred stock to additional purchasers. The table below sets forth the number of shares of our Series G-2 convertible preferred stock purchased by our executive officers, directors, holders of more than 5% of our capital stock, and their affiliated entities or immediate family members. Each share of Series G-2 convertible preferred stock will automatically convert into one share of our Class A common stock upon the closing of this offering. The holders of our Series G-2 convertible preferred stock listed below are entitled to specified registration rights. See the section titled “Description of Capital Stock—Registration Rights” for additional information regarding these registration rights.

Participants	Number of Series G-2 Shares Purchased	Aggregate Purchase Price
Novo Holdings A/S. ⁽¹⁾	261,748	\$ 14,999,966.47
Blue Media, LLC ⁽²⁾	130,876 ⁽³⁾	7,500,097.84
Scottish Mortgage Investment plc ⁽⁴⁾	872,495	49,999,983.72
The Schiehallion Fund Limited ⁽⁴⁾	43,625	2,500,013.52

- (1) Robert Ghenchev, a member of our board of directors, is the Managing Partner and Head of Growth Investments at Novo Holdings US, Inc., which provides consulting services to Novo Holdings A/S.
- (2) Blue Media, LLC is controlled by Eric Lefkofsky, our Chief Executive Officer, Founder and Chairman.
- (3) Blue Media, LLC purchased an aggregate of 130,876 shares of our Series G-2 convertible preferred stock, all of which were repurchased by us in January 2021. See the section titled “—Repurchases of Equity Securities—Redemptions of Common and Preferred Stock” below. As a result, Blue Media, LLC is no longer a holder of our Series G-2 convertible preferred stock.
- (4) The Schiehallion Fund Limited and Scottish Mortgage Investment Trust plc are controlled by Baillie Gifford & Co., a holder of more than 5% of our capital stock.

Series G-3 Convertible Preferred Stock Financing

In April 2022 and May 2022, we sold an aggregate of 1,614,114 shares of our Series G-3 convertible preferred stock at a price per share of \$57.3069 for an aggregate purchase price of approximately \$92.5 million in private placements to accredited investors. The table below sets forth the number of shares of our Series G-3 preferred stock purchased by our executive officers, directors, holders of more than 5% of our capital stock, and their affiliated entities or immediate family members. The terms of our Series G-3 preferred stock provide that in

[Table of Contents](#)

the event of an initial public offering of our common stock, each share of Series G-3 preferred stock would be converted into a number of shares of our Class A common stock equal to (i) \$57.3069 per share, plus any accrued and unpaid dividends on such share, divided by (ii) the lesser of (a) \$51.5762 and (b) 85% of the public offering price in this offering. The holders of our Series G-3 convertible preferred stock are entitled to paid-in-kind dividends at a rate of 4% of the original issue price, payable in shares of Series G-3 convertible preferred stock. For more information regarding such dividend, see the sections titled “Dividend Policy” and “Prospectus Summary—The Offering—Additional Class A Conversion Shares” in this prospectus. The holders of our Series G-3 convertible preferred stock listed below are also entitled to specified registration rights. See the section titled “Description of Capital Stock—Registration Rights” for additional information regarding these registration rights.

Participants	Number of Series G-3 Shares Purchased	Aggregate Purchase Price
Blue Media, LLC ⁽¹⁾	92,483	\$ 5,299,914.03
Scottish Mortgage Investment plc ⁽²⁾	872,495	49,999,983.72
The Schiehallion Fund Limited ⁽²⁾	87,250	5,000,027.03

(1) Blue Media, LLC is controlled by Eric Lefkofsky, our Chief Executive Officer, Founder and Chairman.

(2) The Schiehallion Fund Limited and Scottish Mortgage Investment Trust plc are controlled by Baillie Gifford & Co., a holder of more than 5% of our capital stock.

Series G-4 Convertible Preferred Stock Financing

In October 2023, we sold an aggregate of 785,245 shares of our Series G-4 convertible preferred stock at a price per share of \$57.3069 for an aggregate purchase price of approximately \$45.0 million in private placements to accredited investors. The table below sets forth the number of shares of our Series G-4 preferred stock purchased by our executive officers, directors, holders of more than 5% of our capital stock, and their affiliated entities or immediate family members. The terms of our Series G-4 preferred stock provide that in the event of an initial public offering of our common stock, each share of Series G-4 preferred stock would be converted into a number of shares of our Class A common stock equal to (i) \$57.3069 per share, plus any accrued and unpaid dividends on such share, divided by (ii) the lesser of (a) \$51.5762 and (b) 85% of the public offering price in this offering. The holders of our Series G-4 convertible preferred stock are entitled to paid-in-kind dividends at a rate of 5.25% of the original issue price, payable in shares of Series G-4 convertible preferred stock. For more information regarding such dividend, see the sections titled “Dividend Policy” and “Prospectus Summary—The Offering—Additional Class A Conversion Shares” in this prospectus. In addition, we agreed to pay to each holder of Series G-4 preferred stock an amount equal to 5% of the per share price for each share of Series G-4 preferred stock purchased by such holder, or the G-4 Special Payment, in the event that following this offering, the average of the last trading price on each trading day during the ten day trading period beginning on the first day of trading of our Class A common stock is less than 110% of the price per share of Class A common stock sold in this offering. If applicable, the G-4 Special Payment will be equal to approximately \$2.3 million in the aggregate and will be payable in cash to the holders within thirty (30) days following this offering. The holders of our Series G-4 preferred stock listed below are entitled to specified registration rights. See the section titled “Description of Capital Stock—Registration Rights” for additional information regarding these registration rights.

Participants	Number of Series G-4 Shares Purchased	Aggregate Purchase Price
Scottish Mortgage Investment Trust plc ⁽¹⁾	348,998	\$ 19,999,993.49

(1) Scottish Mortgage Investment Trust plc is controlled by Baillie Gifford & Co., a holder of more than 5% of our capital stock.

Cash Dividend Payment

On June 4, 2024, we paid an aggregate of approximately \$5.6 million of accrued and unpaid cash dividends in respect of certain shares of our convertible preferred stock. Of this amount, approximately \$5.3 million was paid to entities controlled by Mr. Lefkofsky and approximately \$67,000 was paid to each of BK TL21 LLC and Red Sky LLC.

Investor Rights, Voting, and Right of First Refusal and Co-Sale Agreements

In connection with our convertible preferred stock financings, we entered into investor rights, voting, right of first refusal, and co-sale agreements containing registration rights, information rights, voting rights, board representation rights, indemnification provisions and rights of first refusal, among other things, with certain holders of our convertible preferred stock and certain holders of our common stock, including entities affiliated with Eric Lefkofsky and Keeks, LLC.

The covenants included in these stockholder agreements generally will terminate upon the closing of this offering, except with respect to registration rights, as more fully described in the section titled “Description of Capital Stock—Registration Rights.” See also the section titled “Principal Stockholders” for additional information regarding beneficial ownership of our capital stock.

Real Property Leases

In January 2018, we entered into an office lease with a third-party landlord in connection with which Lightbank LLC was allowed to terminate its then-outstanding lease with the landlord. We received \$1.5 million from Lightbank LLC to be amortized over the course of the lease, of which \$0.7 million remains to be amortized. We currently sublease a portion of this office space to Lightbank LLC, Lefkofsky Family Foundation and 346 Investment Partners, each an entity affiliated with and controlled by Mr. Lefkofsky, on a month-to-month basis. As of March 31, 2024, we have received an aggregate of \$0.7 million in sublease income from these related parties.

Aircraft for Business Travel

We entered into an arm’s length arrangement in 2018 pursuant to which we charter for business use an aircraft owned by 346 Investment Partners LLC, an entity affiliated with and controlled by Mr. Lefkofsky, through a third-party aircraft management company, which in turn reimburses 346 Investment Partners LLC at market rates. As of March 31, 2024, we have paid an aggregate of \$0.2 million to 346 Investment Partners LLC pursuant to this arrangement.

Agreements with Pathos

We entered into a master agreement in August 2021, as amended and restated in February 2024, with Pathos AI, Inc., or Pathos, a healthcare company co-founded by Mr. Lefkofsky, our Chief Executive Officer, Founder and Chairman, and Mr. Fukushima, our Chief Operating Officer. Mr. Lefkofsky currently serves as Executive Chairman and a member of Pathos’ board of directors. As of the date of this prospectus, we have a warrant to purchase 23,456,790 shares, or approximately 16.5% of the current outstanding equity in Pathos, for \$.0125 per share. The warrant will automatically exercise upon a change of control (as defined therein) or upon an initial public offering of Pathos’ securities. Pursuant to this master agreement, we granted Pathos a limited, non-exclusive, revocable, non-transferable right and license, without right of sublicense, to access and download certain de-identified records from our proprietary database. Pathos in turn agreed to pay us certain license fees depending on the number of de-identified records it elects to license during the term of the master agreement. Pathos also agreed to pay us a subscription fee equal to \$0.4 million per year for access to our Lens product for the term of the master agreement. The master agreement provides for an initial term of five years, measured from February 2024, with a subsequent five-year renewal provision unless the agreement is terminated. Pathos may own certain analysis, summaries, reports or other information it creates with, or based upon, the de-identified data it licenses from us, and it may continue to use such information following termination of the agreement.

[Table of Contents](#)

Either party may terminate the agreement after the initial five-year term by prior written notice to the other party. As of the date of this prospectus, Pathos has paid us an aggregate of \$0.8 million in annual subscription fee, and we have not exercised the warrant to purchase shares of Pathos common stock.

In March 2022, we and Pathos entered into a sequencing pilot project under the master agreement pursuant to which we ran our xT NGS assay on 15 samples provided by Pathos in exchange for a one-time discounted fee of less than \$0.1 million.

In April 2022, we and Pathos entered into a non-exclusive analytical services program under the master agreement pursuant to which we provide services to help Pathos use our de-identified data to answer research and development questions posed by Pathos. Under the program, we initially provided 500 hours of analytical services to Pathos over 6 months in exchange for increasing by \$0.1 million the annual subscription fee payable by Pathos. Pathos has the right to extend the program either in six month increments or by increasing by 1,000 the number of analytical services hours we provide in any six-month period. In each case, the fee paid by Pathos increases proportionally.

In April 2023, Ryan Fukushima, Tempus's Chief Operating Officer, was appointed as interim Chief Executive Officer of Pathos. In connection with such appointment, our Board of Directors has authorized the Company to amend Mr. Fukushima's employment agreement to, among other things, acknowledge his service as Pathos's interim Chief Executive Officer and allow him to split his professional time between the two companies, with no less than 50% of professional time devoted to Tempus.

In May 2024, we and Pathos entered into an order form under the master agreement pursuant to which we will license organoids and organoid data sets to Pathos. Under this order form, we granted Pathos a revocable, limited, non-transferable, non-exclusive right and license, without right of sublicense, to use certain organoid material and organoid data. Pathos in turn agreed to pay us certain license fees depending on the number of organoid materials and data it elects to license and the term of such license. The order form provides for an initial term of two years, subject to annual renewal upon written confirmation from us and Pathos. As of the date of this prospectus, we have not received license fee payment from Pathos.

Equity Grants to Directors and Executive Officers

We have granted RSUs to certain of our directors and executive officers. For more information regarding the stock awards granted to our directors and named executive officers, see the sections titled "Management—Non-Employee Director Compensation" and "Executive Compensation."

Repurchases of Equity Securities

Redemptions of Common and Preferred Stock

In February 2021, we repurchased an aggregate of 130,876 shares of various series of convertible preferred stock from entities affiliated with and controlled by Eric Lefkofsky at the original issue price for a total purchase price of approximately \$7.5 million. Such repurchases were affected in order to accommodate the issuance and sale of convertible preferred stock to additional purchasers.

Acceleration of Vesting for RSUs

In May 2017, we granted 300,000 RSUs to Erik Phelps, our Executive Vice President and Chief Administrative and Legal Officer, pursuant to a restricted stock unit agreement. In April 2021, our board of directors approved a waiver of a vesting condition such that 8,725 of the RSUs held by Mr. Phelps immediately vested and settled for 8,725 shares of our Class A common stock, 873 of the RSUs were cancelled, and 290,402 of the RSUs remain outstanding.

Indemnification Agreements

Our amended and restated certificate of incorporation that will be in effect on the closing of this offering will contain provisions limiting the liability of directors, and our amended and restated bylaws that will be in effect on the closing of this offering will provide that we will indemnify each of our directors and officers to the fullest extent permitted under Delaware law. Our amended and restated certificate of incorporation and amended and restated bylaws that will be in effect on the closing of this offering will also provide our board of directors with discretion to indemnify our employees and other agents when determined appropriate by the board. In addition, we have entered into an indemnification agreement with each of our directors and executive officers, which requires us to indemnify them. For more information regarding these agreements, see the section titled “Executive Compensation—Limitations of Liability and Indemnification Matters.”

Policies and Procedures for Transactions with Related Persons

Prior to the closing of this offering, we intend to adopt a written policy that our executive officers, directors, nominees for election as a director, beneficial owners of more than 5% of any class of our common stock, and any members of the immediate family of any of the foregoing persons are not permitted to enter into a related person transaction with us without the approval or ratification of our board of directors or our audit committee. Any request for us to enter into a transaction with an executive officer, director, nominee for election as a director, beneficial owner of more than 5% of any class of our common stock, or any member of the immediate family of any of the foregoing persons, in which the amount involved exceeds \$120,000 and such person would have a direct or indirect interest, must be presented to our board of directors or our audit committee for review, consideration, and approval. In approving or rejecting any such proposal, our board of directors or our audit committee is to consider the material facts of the transaction, including whether the transaction is on terms no less favorable than terms generally available to an unaffiliated third party under the same or similar circumstances and the extent of the related person’s interest in the transaction.

PRINCIPAL STOCKHOLDERS

The following table sets forth information with respect to the beneficial ownership of our shares as of April 15, 2024 by:

- each named executive officer;
- each of our directors;
- our directors and executive officers as a group; and
- each other person or entity known by us to own beneficially more than 5% of our Class A common stock and Class B common stock (by number or by voting power).

We have determined beneficial ownership in accordance with the rules and regulations of the SEC, and the information is not necessarily indicative of beneficial ownership for any other purpose. Except as indicated by the footnotes below, we believe, based on information furnished to us, that the persons and entities named in the table below have sole voting and sole investment power with respect to all shares that they beneficially own, subject to applicable community property laws.

Applicable percentage ownership before this offering is based on 130,041,582 shares of Class A common stock and 5,374,899 shares of Class B common stock outstanding as of April 15, 2024, assuming (i) the conversion of all outstanding shares of our Series B redeemable convertible preferred stock into an aggregate of 5,374,899 shares of Class B common stock (without giving effect to the Class B Transfer), (ii) the issuance and sale of 3,489,981 shares of Series G-5 Convertible preferred stock in April 2024 as if such issuance and sale had occurred on April 15, 2024, (iii) the Preferred Stock Conversion, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus and (iv) the automatic conversion of all outstanding shares of our nonvoting common stock into 5,069,477 shares of Class A common stock.

Applicable percentage ownership after this offering gives effect to (a) the Additional Class A Conversion Share Issuance resulting in the issuance of 5,227,001 Additional Class A Conversion Shares, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus and (b) the net issuance of 2,527,923 shares of Class A common stock upon the RSU Net Settlement and the issuance of 10,724,524 shares of Class A common stock upon the Additional RSU Settlement. See “Prospectus Summary—The Offering—Additional Class A Conversion Shares” for a description of the Additional Class A Conversion Shares, as the number of Additional Class A Conversion Shares that will be issued depends on the initial public offering price of our Class A common stock. Applicable percentage ownership after this offering assumes that the underwriters’ option to purchase additional shares to cover over-allotments, if any, is not exercised and is based on (1) 160,060,473 shares of Class A common stock and (2) 5,043,789 shares of Class B common stock outstanding immediately after the closing of this offering. Applicable percentage ownership after this offering if the underwriters’ option to purchase additional shares to cover over-allotments, if any, is exercised in full is based on (1) 161,725,473 shares of Class A common stock and (2) 5,043,789 shares of Class B common stock outstanding immediately after the closing of this offering. Applicable percentage ownership after this offering also excludes any potential purchases in this offering by the persons and entities named in the table below. In computing the number of shares beneficially owned by a person and the percentage ownership of such person, we deemed to be outstanding all shares subject to RSUs held by the person that would vest based on service-based vesting conditions within 60 days of April 15, 2024. However, except as described above, we did not deem such shares outstanding for the purpose of computing the percentage ownership of any other person.

[Table of Contents](#)

Unless otherwise indicated, the address for each beneficial owner listed in the table below is c/o Tempus AI, Inc., 600 West Chicago Avenue, Suite 510 Chicago, Illinois 60654.

Name of Beneficial Owner	Beneficial Ownership Before the Offering			Beneficial Ownership After the Offering if Underwriters' Option is Not Exercised			Beneficial Ownership After the Offering if Underwriters' Option is Exercised in Full								
	Class A Common Stock		% of Total Voting Power Before the Offering	Class A Common Stock		% of Total Voting Power After the Offering	Class A Common Stock		% of Total Voting Power After the Offering						
	Shares	%		Shares	%		Shares	%							
5% Stockholders:															
Eric Lefkofsky ⁽¹⁾	50,857,963	39.1	5,374,899	100.0	72.2	48,754,202	30.5	5,043,789	100.0	65.3	48,754,202	30.1	5,043,789	100.0	65.0
Red Sky LLC ⁽²⁾	16,544,420	12.7	—	—	5.8	16,549,877	10.3	—	—	5.4	16,549,877	10.2	—	—	5.4
BK TL21 LLC ⁽³⁾	16,544,419	12.7	—	—	5.8	16,549,873	10.3	—	—	5.4	16,549,873	10.2	—	—	5.4
Entities affiliated with Baillie Gifford & Co. ⁽⁴⁾	8,401,309	6.5	—	—	2.9	9,298,270	5.8	—	—	3.0	9,298,270	5.7	—	—	3.0
Other Directors and Named Executive Officers:															
James Rogers ⁽⁵⁾	200,500	*	—	—	*	110,275	*	—	—	*	110,275	*	—	—	*
Ryan Fukushima ⁽⁶⁾	1,429,969	1.1	—	—	*	1,236,482	*	—	—	*	1,236,482	*	—	—	*
Peter J. Barris	100,000	*	—	—	*	100,000	*	—	—	*	100,000	*	—	—	*
Eric D. Belcher ⁽⁷⁾	—	—	—	—	—	14,034	*	—	—	*	14,034	*	—	—	*
Jennifer A. Doudna, Ph.D. ⁽⁸⁾	16,250	*	—	—	*	16,250	*	—	—	*	16,250	*	—	—	*
David R. Epstein ⁽⁹⁾	1,000	*	—	—	*	1,000	*	—	—	*	1,000	*	—	—	*
Wayne A.I. Frederick, M.D. ⁽¹⁰⁾	17,500	*	—	—	*	17,500	*	—	—	*	17,500	*	—	—	*
Robert Ghenchev	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Scott Gottlieb, M.D. ⁽¹¹⁾	50,000	*	—	—	*	50,000	*	—	—	*	50,000	*	—	—	*
Theodore J. Leonsis ⁽¹²⁾	3,473,060	2.7	—	—	1.1	3,881,557	2.4	—	—	1.2	3,881,557	2.4	—	—	1.2
Nadja West, M.D. ⁽¹³⁾	16,250	*	—	—	*	16,250	*	—	—	*	16,250	*	—	—	*
All directors and executive officers as a group (14 persons) ⁽¹⁴⁾	56,780,971	43.7	5,374,899	100.0	73.4	54,537,712	34.1	5,043,789	100.0	67.0	54,537,712	33.7	5,043,789	100.0	66.7

* Represents beneficial ownership of less than 1%.

† Percentage of total voting power represents voting power with respect to all shares of our Class A and Class B common stock, as a single class. The holders of our Class B common stock are entitled to 30 votes per share, and holders of our Class A common stock are entitled to one vote per share. See the section titled "Description of Capital Stock—Class A Common Stock and Class B Common Stock" for additional information about the voting rights of our Class A and Class B common stock.

(1) Prior to this offering, consists of (a) 21,866,021 shares of Class A common stock held by Blue Media, LLC (assuming, with respect to the conversion of shares of Series G-3 convertible preferred stock, an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus), (b) 178,485 shares of Class B common stock held by Black Media, LLC, (c) 8,625,000 shares of Class A common stock held by Gray Media, LLC, (d) 2,789,336 shares of Class A common stock held by Innovation Group Investors, L.P. -2011 Series, (e) 145,875 shares of Class A common stock held by Innovation Group Investors, L.P. -Series 1B, (f) 248,476 shares of Class A common stock held by Lightbank Investments 1B, LLC, (g) 1,603,279 shares of Class A common stock held by Tempus Series A Investments, LLC, (h) 5,196,414 shares of Class B common stock held by Tempus Series B Investments, LLC, (i) 1,500,071 shares of Class A common stock held by Tempus Series B-1 Investments, LLC, (j) 2,111,415 shares of Class A common stock held by Tempus Series B-2 Investments, LLC, (k) 3,911,762 shares of Class A common stock held by Tempus Series C Investments, LLC, (l) 2,133,583 shares of Class A common stock held by Tempus Series D Investments, LLC, (m) 248,512 shares of Class A common stock held by Tempus Series E Investments, LLC, (n) 321,008 shares of Class A common stock held by Tempus Series G Investments, LLC and (o) 1,400,000 shares of Class A common stock held by Mr. Lefkofsky. Upon the consummation of this offering, shares of Class A common stock held by each of Tempus Series A Investments, LLC, Tempus Series B-1 Investments, LLC,

Table of Contents

- Tempus Series B-2 Investments, LLC, Tempus Series C Investments, LLC, Tempus Series D Investments, LLC, Tempus Series E Investments, LLC and Tempus Series G Investments, LLC and shares of Class B common stock held by Tempus Series B Investments, LLC will be distributed pro rata to the members of each entity, or the LLC Distributions. Mr. Lefkofsky's beneficial ownership after the offering gives effect to the LLC Distributions, the Class B Transfer and the receipt of the Additional Class A Conversion Shares in the Additional Class A Conversion Share Issuance, and consists of (i) 27,625,232 shares of Class A common stock (assuming, with respect to the conversion of shares of Series G-3 convertible preferred stock, an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus) and 3,972,878 shares of Class B common stock held by Blue Media, LLC, (ii) 209 shares of Class A common stock and 178,485 shares of Class B common stock held by Black Media, LLC, (iii) 9,607,349 shares of Class A common stock held by Gray Media, LLC, (iv) 145,967 shares of Class A common stock held by Innovation Group Investors, L.P. -Series 1B, (v) 4,084,121 shares of Class A common stock and 892,426 shares of Class B common stock held by Innovation Group Investors, L.P. -2011 Series, (vi) 1,397,602 shares of Class A common stock held by Lightbank Global LLC, (vii) 248,633 shares of Class A common stock held by Lightbank Investments 1B, LLC, (viii) 333,079 shares of Class A common stock held by the Lefkofsky Family Foundation and (ix) 1,400,000 shares of Class A common stock held by Mr. Lefkofsky. Mr. Lefkofsky is the controlling member of, and may be deemed to have shared voting, investment and dispositive power with respect to the shares held by, the aforementioned entities. Prior to this offering, includes 3,953,625 shares of Class A common stock issuable upon settlement of RSUs for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024. After this offering, includes 50,862 shares of Class A common stock issuable to Mr. Lefkofsky pursuant to the RSU Net Settlement and 3,861,148 additional RSUs, for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024.
- (2) Represents 16,544,420 shares of Class A common stock held by Red Sky LLC. In May 2024, Keeks, LLC, which beneficially owned more than 5% of our Class A common stock as of April 15, 2024, assigned an aggregate of 16,544,420 and 16,544,419 shares of Class A common stock to Red Sky LLC and BK TL21 LLC, respectively. The information set forth in the table above reflects such assignment as if it had occurred on April 15, 2024. Kimberly Keywell is the controlling shareholder of, and may be deemed to have shared voting, investment and dispositive power with respect to the shares held by, Red Sky LLC. Ms. Keywell executed an irrevocable proxy and power of attorney providing that Bradley A. Keywell may vote and exercise all voting rights with respect to the shares of Class A common stock held by Red Sky LLC until the consummation of this offering.
 - (3) Represents 16,544,419 shares of Class A common stock held by BK TL21 LLC. In May 2024, Keeks, LLC, which beneficially owned more than 5% of our Class A common stock as of April 15, 2024, assigned an aggregate of 16,544,420 and 16,544,419 shares of Class A common stock to Red Sky LLC and BK TL21 LLC, respectively. The information set forth in the table above reflects such assignment as if it had occurred on April 15, 2024. Bradley A. Keywell is the controlling shareholder of, and may be deemed to have voting, investment and dispositive control over the shares held by, BK TL21 LLC.
 - (4) Represents (i) 7,696,632 shares of Class A common stock held by Scottish Mortgage Investment Trust plc, or SMIT, and (ii) 704,677 shares of Class A common stock held by the Schiehallion Fund Limited, or TSFL (in each case, assuming, with respect to the conversion of shares of Series G-3 convertible preferred stock and Series G-4 preferred stock, as applicable, an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus). Baillie Gifford & Co Ltd, as direct investment manager, and its affiliate group entity, Baillie Gifford & Co, on a delegated basis, have been appointed to act for and on behalf of SMIT with full voting and investment power. Baillie Gifford Overseas Limited has been appointed to act for and on behalf of, as direct investment manager, for TSFL with full voting and investment power. The address for SMIT is Calton Square, 1 Greenside Row, Edinburgh, United Kingdom, EH1 3AN, and the address for TSFL is First Floor, Albert House, South Esplanade, St Peter Port, Guernsey, GY1 1AJ.
 - (5) Prior to this offering, represents 200,500 shares of Class A common stock issuable upon settlement of RSUs for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024. After this offering, represents 110,275 shares of Class A common stock issuable to Mr. Rogers in connection with the RSU Net Settlement.
 - (6) Prior to this offering, consists of (a) 1,000,000 shares of Class A common stock, including (i) 725,664 shares of Class A common stock held by Ryan Fukushima, (ii) 131,893 shares of Class A common stock held by Ryan Fukushima Irrevocable Family Trust, (iii) 47,481 shares of Class A common stock held by Kubo Irrevocable Trust, (iv) 47,481 shares of Class A common stock held by Charlie Olivia Akiko Fukushima Irrevocable Trust and (v) 47,481 shares of Class A common stock held by Fukushima Irrevocable Trust, or collectively, Fukushima Class A common stock, and (b) 429,969 shares of Class A common stock issuable upon settlement of RSUs for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024. After this offering, consists of (a) 1,000,000 shares of Fukushima Class A common stock and (b) 236,482 shares of Class A common stock issuable to Mr. Fukushima in connection with the RSU Net Settlement.
 - (7) Represents 14,034 shares of Class A common stock to be transferred to Nob Hill Ventures LLC upon the consummation of this offering in the LLC Distributions. Mr. Belcher is the controlling shareholder of, and may be deemed to have shared voting, investment and dispositive power with respect to the shares held by Nob Hill Ventures LLC.
 - (8) Represents 16,250 shares of Class A common stock issuable upon settlement of RSUs held by Dr. Doudna for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024.
 - (9) Represents 1,000 shares of Class A common stock issuable upon settlement of RSUs held by Mr. Epstein for which the service based vesting condition would be satisfied within 60 days of April 15, 2024.
 - (10) Represents 17,500 shares of Class A common stock issuable upon settlement of RSUs held by Dr. Frederick for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024.
 - (11) Represents 50,000 shares of Class A common stock issuable upon settlement of RSUs held by Dr. Gottlieb for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024.
 - (12) Consists of 3,263,060 shares of Class A common stock held by Revolution Growth III, LP, or RG III, and 210,000 shares of Class A common stock issuable upon the exercise of a stock option held by Revolution Growth Management Company, Inc., or RGMC, that is exercisable within 60 days of April 15, 2024. Mr. Leonsis, as a member of the investment committee of the ultimate general partner of RG III and a member of the board of directors of RGMC, may be deemed to share dispositive power over the shares held by RG III and RGMC. The address for Mr. Leonsis is 1717 Rhode Island Ave., NW, 10th Floor, Washington, DC 20036.
 - (13) Represents 16,250 shares of Class A common stock issuable upon settlement of RSUs held by Dr. West for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024.

[Table of Contents](#)

- (14) Prior to this offering, consists of (a) 51,267,398 shares of Class A common stock, (b) 5,374,899 shares of Class B common stock, (c) 210,000 shares of Class A common stock issuable upon the exercise of a stock option that is exercisable within 60 days of April 15, 2024 and (d) 5,303,573 shares of Class A common stock issuable upon the settlement of RSUs for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024. After this offering, consists of (a) 49,627,783 shares of Class A common stock, (b) 5,043,789 shares of Class B common stock, (c) 210,000 shares of Class A common stock issuable upon the exercise of a stock option that is exercisable within 60 days of April 15, 2024, (d) 874,544 shares of Class A common stock issuable in the RSU Net Settlement and (e) 3,713,488 shares of Class A common stock issuable upon settlement of RSUs for which the service-based vesting condition would be satisfied within 60 days of April 15, 2024.

DESCRIPTION OF CAPITAL STOCK

General

The following description of our capital stock and certain provisions of our amended and restated certificate of incorporation and amended and restated bylaws are summaries and are qualified by reference to the amended and restated certificate of incorporation and the amended and restated bylaws that will be in effect following the closing of this offering. Copies of these documents have been filed with the SEC as exhibits to our registration statement, of which this prospectus forms a part. The descriptions of the common stock and convertible preferred stock reflect changes to our capital structure that will be in effect following the closing of this offering.

On the closing of this offering, our amended and restated certificate of incorporation will provide for two classes of common stock: Class A common stock and Class B common stock. In addition, our amended and restated certificate of incorporation that will be in effect on the closing of this offering will authorize shares of undesignated preferred stock, the rights, preferences, and privileges of which may be designated from time to time by our board of directors.

Upon the closing of this offering, our authorized capital stock will consist of 1,025,500,000 shares, all with a par value of \$0.0001 per share, of which:

- 1,000,000,000 shares are designated Class A common stock;
- 5,500,000 shares are designated Class B common stock; and
- 20,000,000 shares are designated preferred stock.

As of March 31, 2024, we had outstanding:

- 148,960,473 shares of Class A common stock, which gives effect to (1) the issuance and sale of 3,489,981 shares of Series G-5 convertible preferred stock in April 2024 as if such issuance and sale had occurred on March 31, 2024; (2) the Preferred Stock Conversion, resulting in 66,935,254 shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus; (3) the Additional Class A Conversion Share Issuance resulting in the issuance of 5,227,001 Additional Class A Conversion Shares upon the closing of this offering, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus; (4) the conversion of all outstanding shares of nonvoting common stock into 5,069,477 shares of Class A common stock; (5) the net issuance of 2,527,923 shares of Class A common stock upon the RSU Net Settlement and the issuance of shares of Class A common stock in connection with the Additional RSU Net Settlement; and (6) the Warrant Net Settlement
- 5,043,789 shares of Class B common stock, which assumes the Series B Preferred Conversion and Transfer.

See “Prospectus Summary—The Offering—Additional Class A Conversion Shares” for a description of the Additional Class A Conversion Shares, as the number of Additional Class A Conversion Shares that will be issued depends on the initial public offering price of our Class A common stock.

Our outstanding capital stock was held by 92 stockholders of record as of March 31, 2024. Our board of directors is authorized, without stockholder approval except as required by the listing standards of the Nasdaq stock market, to issue additional shares of our capital stock.

Class A Common Stock and Class B Common Stock

Voting Rights

The Class A common stock is entitled to one vote per share on any matter that is submitted to a vote of our stockholders. Holders of our Class B common stock are entitled to 30 votes per share on any matter submitted to our stockholders. Holders of shares of Class B common stock and Class A common stock will vote together as a single class on all matters (including the election of directors) submitted to a vote of stockholders, unless otherwise required by Delaware law or our amended and restated certificate of incorporation.

Under Delaware law, holders of our Class A common stock or Class B common stock would be entitled to vote as a separate class if a proposed amendment to our amended and restated certificate of incorporation would increase or decrease the aggregate number of authorized shares of such class, increase or decrease the par value of the shares of such class, or alter or change the powers, preferences, or special rights of the shares of such class so as to affect them adversely. While the holders of our Class A common stock have waived their right to vote as a separate class as to amendments to our amended and restated certificate of incorporation that would increase or decrease the aggregate number of authorized shares of Class A common stock, they are entitled to the other class protections provided under Delaware law. As a result, in these limited instances, the holders of a majority of the Class A common stock could defeat any amendment to our amended and restated certificate of incorporation. For example, if a proposed amendment of our amended and restated certificate of incorporation provided for the Class A common stock to rank junior to the Class B common stock with respect to (1) any dividend or distribution, (2) the distribution of proceeds were we to be acquired or (3) any other right, Delaware law would require the vote of the Class A common stock. In this instance, the holders of a majority of Class A common stock could defeat that amendment to our amended and restated certificate of incorporation.

Our amended and restated certificate of incorporation that will be in effect on the closing of this offering will not provide for cumulative voting for the election of directors.

Economic Rights

Except as otherwise will be expressly provided in our amended and restated certificate of incorporation that will be in effect on the closing of this offering or required by applicable law, all shares of Class A common stock and Class B common stock will have the same rights and privileges and rank equally, share ratably and be identical in all respects for all matters, including those described below.

Dividends and Distributions. Subject to preferences that may apply to any shares of preferred stock outstanding at the time, the holders of Class A common stock and Class B common stock will be entitled to share equally, identically, and ratably, on a per share basis, with respect to any dividend or distribution of cash or property paid or distributed by the company, unless different treatment of the shares of the affected class is approved by the affirmative vote of the holders of a majority of the outstanding shares of such affected class, voting separately as a class. See the section titled “Dividend Policy” for additional information.

Liquidation Rights. On our liquidation, dissolution, or winding-up, the holders of Class A common stock and Class B common stock will be entitled to share equally, identically, and ratably in all assets remaining after the payment of any liabilities, liquidation preferences, and accrued or declared but unpaid dividends, if any, with respect to any outstanding preferred stock, unless a different treatment is approved by the affirmative vote of the holders of a majority of the outstanding shares of such affected class, voting separately as a class.

Change of Control Transactions. The holders of Class A common stock and Class B common stock will be treated equally and identically with respect to shares of Class A common stock or Class B common stock owned by them, unless different treatment of the shares of each class is approved by the affirmative vote of the holders of a majority of the outstanding shares of the class treated differently, voting separately as a class, on (a) the closing of the sale, transfer, or other disposition of all or substantially all of our assets, (b) the consummation of a

[Table of Contents](#)

merger, reorganization, consolidation, or share transfer which results in our voting securities outstanding immediately before the transaction (or the voting securities issued with respect to our voting securities outstanding immediately before the transaction) representing less than a majority of the combined voting power of the voting securities of the company or the surviving or acquiring entity or (c) the closing of the transfer (whether by merger, consolidation, or otherwise), in one transaction or a series of related transactions, to a person or group of affiliated persons of securities of the company if, after closing, the transferee person or group would hold 50% or more of the outstanding voting power of the company (or the surviving or acquiring entity). However, consideration to be paid or received by a holder of common stock in connection with any such assets sale, merger, reorganization, consolidation, or share transfer under any employment, consulting, severance, or other arrangement will be disregarded for the purposes of determining whether holders of common stock are treated equally and identically.

Subdivisions and Combinations. If we subdivide or combine in any manner outstanding shares of Class A common stock or Class B common stock, the outstanding shares of the other classes will be subdivided or combined in the same manner.

No Preemptive or Similar Rights

Our Class A common stock and Class B common stock are not entitled to preemptive rights, and are not subject to conversion, redemption or sinking fund provisions, except for the conversion provisions with respect to the Class B common stock described below.

Conversion

Each share of Class B common stock is convertible at any time at the option of the holder into one share of Class A common stock. After the closing of this offering, on any transfer of shares of Class B common stock, whether or not for value, each such transferred share will automatically convert into one share of Class A common stock, except for certain transfers detailed below and further described in our amended and restated certificate of incorporation that will be in effect following the closing of this offering.

Any holder's shares of Class B common stock will convert automatically into Class A common stock, on a one-to-one basis, upon certain circumstances, including: (1) the sale or transfer of such shares of Class B common stock, other than to a "controlled entity," which is any person or entity which, directly or indirectly, is controlled by, or is under common control with, the holder of such shares of Class B common stock; (2) the trading day that is no less than 90 days and no more than 150 days following the twenty-year anniversary of the filing of our amended and restated certificate of incorporation, in connection with the closing of this offering; (3) the date on which Mr. Lefkofsky is no longer providing services to us as an executive officer or member of our board of directors; and (4) the trading day that is no less than 90 days and no more than 150 days following the date that Mr. Lefkofsky and his controlled entities hold, in the aggregate, fewer than 10,000,000 shares of our capital stock (as adjusted for stock splits, stock dividends, combinations, subdivisions and recapitalizations).

Once transferred and converted into Class A common stock, the Class B common stock may not be reissued.

Fully Paid and Non-Assessable

In connection with this offering, our legal counsel will opine that the shares of our Class A common stock to be issued under this offering will be fully paid and non-assessable.

Convertible Promissory Note

In June 2020, in connection with our entry into an agreement for use of Google LLC's, or Google's, Google Cloud Platform, we issued Google a convertible promissory note, or the Note, in the original principal amount of

[Table of Contents](#)

\$330 million. In November 2020, in connection with our Series G-2 convertible preferred stock financing, we issued Google \$80 million of our Series G-2 preferred stock in partial satisfaction of the outstanding principal amount under the Note, and we amended and restated the terms of the Note. Under the amended and restated Note, or the Amended Note, the outstanding principal amount accrues interest at the rate set forth therein, and the principal amount is automatically reduced each year based on a formula taking into account the aggregate value of the Google Cloud Platform services used by us. As of March 31, 2024, the value of the Amended Note was \$186.7 million. The outstanding principal and accrued interest under the Note, or the Outstanding Amount, is due and payable on the earlier of (1) March 22, 2026, which is the maturity date of the Amended Note, (2) the occurrence and continuance of an event of default and (3) the occurrence of an acceleration event, which includes any termination by us of our Google Cloud Platform agreement. If the Amended Note is outstanding at the maturity date, Google may, at its option, convert the then outstanding principal amount and interest accrued under the Amended Note into a number of shares of our Class A common stock equal to the quotient obtained by dividing (1) the Outstanding Amount on the maturity date, by (2) the average of the last trading price on each trading day during the twenty day period ending immediately prior to the maturity date. We generally may not prepay the Outstanding Amount, except that we may, at our option, prepay the Outstanding Amount in an amount such that the principal amount remaining outstanding after such repayment is \$150 million.

Warrants

In November 2021, in connection with our entry into an MSA with AstraZeneca, we issued a warrant to AstraZeneca to purchase \$100 million in shares of our Class A common stock at an exercise price equal to the initial public offering price in this offering. The number of shares of Class A common stock issuable upon exercise of the warrant will be determined based on the initial public offering price in this offering (2,777,778 shares of Class A common stock, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus). The warrant may be exercised any time following the date that is 180 days following the pricing of our initial public offering through December 31, 2026. AstraZeneca will be entitled to substantially the same registration rights with respect to the shares under the warrant as those granted to holders of registrable securities pursuant to our Ninth Amended and Restated Investors' Rights Agreement, dated November 19, 2020. The warrant will be automatically cancelled and terminated for no consideration, if not previously exercised, in the event AstraZeneca declines to extend its financial commitment under the MSA before December 31, 2024, as more fully described in the section of this prospectus titled "Business—Operations—Our Strategic Collaboration—AstraZeneca Master Services Agreement."

In December 2023, in connection with our entry into a letter agreement with Allen for certain financial advisory services provided by Allen to us, we issued, as compensation for such services, a warrant to Allen to purchase up to 150,000 shares of our Class A common stock at an exercise price of \$10.00 per share, subject to adjustments provided therein. Pursuant to the Warrant Net Exercise, Allen will receive 108,333 shares of Class A common stock following this offering (assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus).

Preferred Stock

As of March 31, 2024, there were 67,093,065 shares of our convertible preferred stock outstanding (including 3,489,981 shares of Series G-5 convertible preferred stock issued in April 2024). Upon the closing of this offering, each outstanding share of our convertible preferred, other than our Series B convertible preferred stock, will convert into one share of our Class A common stock, and each outstanding share of our Series B convertible preferred stock will convert into one share of our Class B common stock. In addition, upon the closing of this offering, we expect to issue 5,227,001 additional shares of Class A common stock upon the conversion of all of our outstanding shares of our preferred stock, pursuant to provisions of our certificate of incorporation as currently in effect, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, which we refer to as the Additional Class A Conversion Shares. See "Prospectus Summary—The Offering—Additional Class A Conversion Shares" for additional information.

[Table of Contents](#)

Under our amended and restated certificate of incorporation that will be in effect on the closing of this offering, our board of directors may, without further action by our stockholders (except as noted below), fix the rights, preferences, privileges, and restrictions of up to an aggregate of 20,000,000 shares of preferred stock in one or more series and authorize their issuance. Notwithstanding the foregoing, so long as any shares of Class B common stock remain outstanding, no shares of preferred stock with voting rights equal or superior to those of the Class B common stock may be issued without the approval of the holders of a majority of the outstanding shares of Class B common stock. These rights, preferences, and privileges could include dividend rights, conversion rights, voting rights, terms of redemption, liquidation preferences, and the number of shares constituting any series or the designation of such series, any or all of which may be greater than the rights of our Class A common stock or Class B common stock. Any issuance of our preferred stock could adversely affect the voting power of holders of our Class A common stock or Class B common stock, and the likelihood that such holders would receive dividend payments and payments on liquidation. In addition, the issuance of preferred stock could have the effect of delaying, deferring, or preventing a change of control or other corporate action. On the closing of this offering, no shares of preferred stock will be outstanding. We have no present plan to issue any shares of preferred stock.

Options

As of March 31, 2024, we had outstanding a stock option to purchase 210,000 shares under the 2015 Plan.

Restricted Stock Units (RSUs)

As of March 31, 2024, we had outstanding 20,793,305 RSUs under the 2015 Plan.

Performance-Vesting Restricted Stock Units (PSUs)

As of March 31, 2024, we had no outstanding PSUs under the 2015 Plan.

Registration Rights

Stockholder Registration Rights

We are party to an investor rights agreement that provides that certain holders of our convertible preferred stock, including certain holders of at least 5% of our capital stock and entities affiliated with certain of our directors, have certain registration rights, as set forth below. This investor rights agreement was entered into in April 2024. The registration of shares of our Class A common stock (including shares of Class A common stock issuable upon conversion of Class B common stock, along with all Additional Class A Conversion Shares) by the exercise of registration rights described below would enable the holders to sell these shares without restriction under the Securities Act when the applicable registration statement is declared effective. We will pay the registration expenses, other than underwriting discounts and commissions, of the shares registered by the demand, piggyback, and Form S-3 registrations described below.

Generally, in an underwritten offering, the managing underwriter, if any, has the right, subject to specified conditions, to limit the number of shares such holders may include. The demand, piggyback, and Form S-3 registration rights described below will expire five years after the effective date of the registration statement, of which this prospectus forms a part, or with respect to any particular stockholder, such time after the effective date of the registration statement that such stockholder (a) holds less than 1% of our outstanding common stock (including shares issuable on conversion of outstanding convertible preferred stock) and (b) can sell all of its shares under Rule 144 of the Securities Act, or Rule 144, during any 90-day period.

See “Prospectus Summary—The Offering—Additional Class A Conversion Shares” for a description of the Additional Class A Conversion Shares, as the number of Additional Class A Conversion Shares that will be issued depends on the initial public offering price of our Class A common stock.

Demand Registration Rights

The holders of an aggregate of 135,574,005 shares of our Class A common stock and Class B common stock (assuming the issuance of the Additional Class A Conversion Shares) will be entitled to certain demand registration rights. At any time beginning six months after the effective date of this registration statement, the holders of a majority of these shares may, on not more than two occasions, request that we register all or a portion of their shares. Such request for registration must cover shares with an anticipated aggregate offering price, net of underwriting discounts and commissions, of at least \$15.0 million.

Piggyback Registration Rights

In connection with this offering, the holders of an aggregate of 135,574,005 shares of our Class A common stock and Class B common stock (after giving effect to the issuance of Series G-5 preferred stock in April 2024 and assuming the issuance of the Additional Class A Conversion Shares) were entitled to, and the necessary percentage of holders waived, their rights to notice of this offering and to include their shares of registrable securities in this offering. After this offering, in the event that we propose to, subject to limited exceptions, register any of our securities under the Securities Act, either for our own account or for the account of other security holders, the holders of these shares will be entitled to certain piggyback registration rights allowing the holder to include their shares in such registration, subject to certain marketing and other limitations. As a result, whenever we propose to file a registration statement under the Securities Act, other than with respect to a demand registration or a registration statement on Forms S-4 or S-8, the holders of these shares are entitled to notice of the registration and have the right to include their shares in the registration, subject to limitations that the underwriters may impose on the number of shares included in the offering.

Form S-3 Registration Rights

The holders of an aggregate of at least 20% of the then outstanding shares of Class A common stock and Class B common stock (assuming the issuance of the Additional Class A Conversion Shares) will be entitled to certain Form S-3 registration rights. The holders of an aggregate of at least 20% of these shares can make a request that we register their shares on Form S-3 if we are qualified to file a registration statement on Form S-3 and if the reasonably anticipated aggregate gross proceeds of the shares offered would equal or exceed \$1.0 million. We will not be required to effect more than two registrations on Form S-3 within any 12-month period.

Anti-Takeover Provisions

Certificate of Incorporation and Bylaws to Be in Effect on the Closing of this Offering

Because our stockholders do not have cumulative voting rights, stockholders holding a majority of the voting power of our shares of common stock will be able to elect all of our directors. Our amended and restated certificate of incorporation and amended and restated bylaws to be effective on the closing of this offering will provide for stockholder actions at a duly called meeting of stockholders or, so long as any shares of Class B common stock remain outstanding, by written consent. A special meeting of stockholders may be called by a majority of our board of directors, the chair of our board of directors, our chief executive officer, or, so long as any shares of Class B common stock remain outstanding, by our secretary upon written consent of our stockholders entitled to cast at least a majority of the votes at such meeting. Our amended and restated bylaws to be effective on the closing of this offering will establish an advance notice procedure for stockholder proposals to be brought before an annual meeting of our stockholders, including proposed nominations of persons for election to our board of directors.

Our amended and restated certificate of incorporation to be effective on the closing of this offering will further provide for a dual-class common stock structure, which provides Eric Lefkofsky, our Chief Executive Officer, Founder, and Chairman, who will beneficially own 100% of our outstanding Class B common stock,

[Table of Contents](#)

with control over all matters requiring stockholder approval, including the election of directors and significant corporate transactions, such as a merger or other sale of our company or its assets. Additionally, so long as any shares of Class B common stock remain outstanding, a majority vote of the outstanding Class B common stock is required to (1) amend, alter, or repeal any provision of the certificate of incorporation or bylaws in a manner that impacts the rights of the holders of the Class B common stock, (2) reclassify any outstanding shares of Class A common stock into shares having (a) dividend or liquidation rights that are senior to the Class B common stock or (b) the right to more than one vote per share, (3) issue any shares of preferred stock having voting rights equal or superior to those of the Class B common stock, and (4) issue any additional shares of Class B common stock or other securities convertible into Class B common stock (except for the issuance of Class B common stock issuable upon a dividend under certain circumstances).

The foregoing provisions will make it more difficult for another party to obtain control of us by replacing our board of directors. Since our board of directors has the power to retain and discharge our officers, these provisions could also make it more difficult for existing stockholders or another party to effect a change in management. In addition, the authorization of undesignated convertible preferred stock makes it possible for our board of directors to issue convertible preferred stock with voting or other rights or preferences that could impede the success of any attempt to change our control.

These provisions, including the dual-class structure of our common stock, are intended to preserve our existing control structure after the closing of this offering, facilitate our continued product innovation and the risk-taking that it requires, permit us to continue to prioritize our long-term goals rather than short-term results, enhance the likelihood of continued stability in the composition of our board of directors and its policies and to discourage certain types of transactions that may involve an actual or threatened acquisition of us. These provisions are also designed to reduce our vulnerability to an unsolicited acquisition proposal and to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and may have the effect of deterring hostile takeovers or delaying changes in our control or management. As a consequence, these provisions may also inhibit fluctuations in the market price of our stock that could result from actual or rumored takeover attempts.

Section 203 of the Delaware General Corporation Law

When we have a class of voting stock that is either listed on a national securities exchange or held of record by more than 2,000 stockholders, we will be subject to Section 203 of the Delaware General Corporation Law, which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, subject to certain exceptions.

Choice of Forum

Our amended and restated certificate of incorporation to be effective on the closing of this offering will provide that the Court of Chancery of the State of Delaware be the exclusive forum for actions or proceedings brought under Delaware statutory or common law: (1) any derivative claim or cause of action brought on our behalf; (2) any claim or cause of action asserting a breach of fiduciary duty; (3) any claim or cause of action against us arising under the Delaware General Corporation Law; (4) any claim or cause of action arising under or seeking to interpret our amended and restated certificate of incorporation or our amended and restated bylaws; or (5) any claim or cause of action against us that is governed by the internal affairs doctrine. The provisions would not apply to suits brought to enforce a duty or liability created by the Exchange Act. Our amended and restated certificate of incorporation further provides that the federal district courts of the United States of America will be the exclusive forum for resolving any complaint asserting a cause or causes of action arising under the Securities Act, including all causes of action asserted against any defendant to such complaint. For the avoidance of doubt, this provision is intended to benefit and may be enforced by us, our officers and directors, the underwriters to any offering giving rise to such complaint, and any other professional entity whose profession gives authority to a

[Table of Contents](#)

statement made by that person or entity and who has prepared or certified any part of the documents underlying the offering. Investors cannot waive compliance with the federal securities laws and the rules and regulations thereunder.

Limitations of Liability and Indemnification

See the section titled “Executive Compensation—Limitations of Liability and Indemnification Matters.”

Exchange Listing

Our Class A common stock is currently not listed on any securities exchange. Our Class A common stock has been approved for listing on the Nasdaq Global Select Market under the symbol “TEM.”

Transfer Agent and Registrar

On the closing of this offering, the transfer agent and registrar for our Class A common stock and Class B common stock will be Equiniti Trust Company, LLC (formerly known as American Stock Transfer & Trust Company, LLC). The transfer agent’s address is 55 Challenger Road, Ridgefield Park, New Jersey 07660.

SHARES ELIGIBLE FOR FUTURE SALE

Prior to this offering, there has been no public market for our Class A common stock. Future sales of substantial amounts of our Class A common stock or Class B common stock, including shares issued on the settlement of outstanding RSUs, in the public market after this offering, or the possibility of these sales or issuances occurring, could adversely affect the prevailing market price for our Class A common stock or impair our ability to raise equity capital.

Upon the closing of this offering, a total of 160,060,473 shares of Class A common stock and 5,043,789 shares of Class B common stock will be outstanding, assuming (i) the Series B Preferred Stock Conversion and Transfer resulting in 5,043,789 shares of Class B common stock outstanding immediately following the consummation of this offering, (ii) the issuance and sale of 3,489,981 shares of Series G-5 convertible preferred stock in April 2024 as if such issuance and sale had occurred on March 31, 2024, (iii) the Preferred Stock Conversion, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, (iv) the Additional Class A Conversion Share Issuance resulting in 5,227,001 Additional Class A Conversion Shares, assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus, (v) the automatic conversion of all outstanding shares of our nonvoting common stock into 5,069,477 shares of Class A common stock, and (vi) the net issuance of 2,527,923 shares of Class A common stock upon the RSU Net Settlement. Of these shares, all of the Class A common stock sold in this offering by us, plus any shares sold by us on exercise of the underwriters' option to purchase additional Class A common stock to cover over-allotments, if any, will be freely tradable in the public market without restriction or further registration under the Securities Act, unless these shares are held by "affiliates," as that term is defined in Rule 144.

In addition, there were 210,000 shares of Class A common stock issuable upon the exercise of a stock option outstanding as of March 31, 2024 and we intend to register all of the shares of Class A common stock issued upon the exercise of the outstanding option, settlement of outstanding RSUs and other equity incentives we may grant in the future for resale under the Securities Act.

AstraZeneca also holds an outstanding warrant, pursuant to which AstraZeneca has the right to purchase \$100 million in shares of our Class A common stock at an exercise price equal to the public offering price in this offering. The shares of Class A common stock will become eligible for sale in the public market to the extent such warrant is exercised, subject to the market standoff provisions included in such agreement and described in the section titled "Underwriting" and compliance with applicable securities laws. In addition, pursuant to the Warrant Net Exercise, Allen, an underwriter in this offering, will receive 108,333 shares of Class A common stock following this offering (assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus). The shares of Class A common stock issued pursuant to the Warrant Net Exercise will become eligible for sale in the public market, subject to the market standoff provision contained in the Allen warrant agreement and described in the section titled "Underwriting" and compliance with applicable securities laws.

The remaining shares of Class A common stock and Class B common stock will be, and shares of Class A common stock issued on settlement of RSUs or exercise of options will be on issuance, "restricted securities," as that term is defined in Rule 144. These restricted securities are eligible for public sale only if they are registered under the Securities Act or if they qualify for an exemption from registration under Rules 144 or 701 under the Securities Act, which are summarized below. Restricted securities may also be sold outside of the United States to non-U.S. persons in accordance with Rule 904 of Regulation S.

[Table of Contents](#)

Subject to the lock-up and market standoff agreements described below and the provisions of Rule 144 or 701 or Regulation S under the Securities Act, as well as our insider trading policy, these restricted securities will be available for sale in the public market as follows:

Earliest Date Available for Sale in the Public Market

If the closing price of our Class A common stock on The Nasdaq Stock Market LLC is at least 30% greater than the initial public offering price per share set forth on the cover page of this prospectus for (i) any 10 trading days (which need not be consecutive trading days) during the period ending on, and including, the date that we publicly announce our earnings for the first completed quarterly period following the most recent period for which financial statements are included in this prospectus, or the Initial Earnings Release, and (ii) any one trading day following the Initial Earnings Release, then the later of (a) the date on which the conditions set forth in both (i) and (ii) above are satisfied and (b) two trading days following our Initial Earnings Release.

180 days after the date of this prospectus unless such date falls within one of our quarterly blackout periods under our insider trading policy, in which case the restricted period will expire on the date that is the later of (i) 10 trading days prior to the date such blackout period begins and (ii) the 150th day after the date of this prospectus.

In addition, pursuant to certain exceptions in the lock-up agreements and because of our ability to release RSU holders early under the market standoff agreements, certain shares of our Class A common stock will be sold in the open market by our employees, including our Chief Executive Officer, during the restricted period described above in sell-to-cover transactions in order to satisfy tax withholding obligations in connection with the settlement of RSUs for shares of our Class A common stock as follows:

Number of Shares of Class A Common Stock

Up to 46,201,278 shares of Class A common stock

All remaining shares held by our stockholders not previously eligible for sale, subject to applicable limitations under Rule 144, including for “affiliates” and compliance with other applicable law, as described below.

Date First Available for Sale into the Market

91 days after the date of this prospectus (or the next trading day if such date is not a trading day)

120 days after the date of this prospectus (or the next trading day if such date is not a trading day)

Number of RSUs Eligible to Settle

5,362,261

5,362,262

Approximate Number of Shares of Class A Common Stock to be Sold in Sell-to-Cover Transactions⁽¹⁾

2,413,017

2,413,018

(1) Assumes a 45% tax rate. Includes an estimated approximately 868,758 shares that may be sold on or after each of the 91st and 120th day following the date of this prospectus in respect of settlement of RSUs held by our Chief Executive Officer.

The dates and numbers above are estimates. We expect each settlement and sell-to-cover transaction to extend over a multi-day period based on trading volumes. Because the purpose of sell-to-cover transactions is to generate proceeds sufficient to satisfy tax withholding obligations, the exact number of shares sold will depend on the sale prices of the Class A common stock in such transactions and our stockholders’ personal tax rates.

Rule 144

In general, under Rule 144 as currently in effect, once we have been subject to public company reporting requirements of Section 13 or Section 15(d) of the Exchange Act for at least 90 days, an eligible stockholder is entitled to sell such shares without complying with the manner of sale, volume limitation or notice provisions of Rule 144, subject to compliance with the public information requirements of Rule 144. To be an eligible stockholder under Rule 144, such stockholder must not be deemed to have been one of our affiliates for purposes of the Securities Act at any time during the 90 days preceding a sale and must have beneficially owned the shares proposed to be sold for at least six months, including the holding period of any prior owner other than our affiliates. If such a person has beneficially owned the shares proposed to be sold for at least one year, including the holding period of any prior owner other than our affiliates, then such person is entitled to sell such shares without complying with any of the requirements of Rule 144, subject to the expiration of the lock-up and market standoff agreements described below.

In general, under Rule 144, as currently in effect, our affiliates or persons selling shares on behalf of our affiliates are entitled to sell shares on expiration of the lock-up agreements described below, subject, in the case of restricted securities, to such shares having been beneficially owned for at least six months. Beginning 90 days after the date of this prospectus, within any three-month period, such stockholders may sell a number of shares that does not exceed the greater of:

- 1% of the number of shares of Class A common stock then outstanding, which will equal approximately 1,600,605 shares immediately after this offering; or
- the average weekly trading volume of our Class A common stock on the Nasdaq Stock Market during the four calendar weeks preceding the filing of a notice on Form 144 with respect to such sale.

Sales under Rule 144 by our affiliates or persons selling shares on behalf of our affiliates are also subject to certain manner of sale provisions and notice requirements and to the availability of current public information about us.

Rule 701

Rule 701 under the Securities Act, or Rule 701, generally allows a stockholder who was issued shares under a written compensatory plan or contract and who is not deemed to have been an affiliate of our company during the immediately preceding 90 days, to sell these shares in reliance on Rule 144, but without being required to comply with the public information, holding period, volume limitation or notice provisions of Rule 144. Rule 701 also permits affiliates of our company to sell their Rule 701 shares under Rule 144 without complying with the holding period requirements of Rule 144. All holders of Rule 701 shares, however, are required by that rule to wait until 90 days after the date of this prospectus before selling those shares under Rule 701, subject to the expiration of the lock-up and market standoff agreements described below.

Form S-8 Registration Statements

We intend to file one or more registration statements on Form S-8 under the Securities Act with the SEC to register the offer and sale of shares of our Class A common stock that are issuable under the 2015 Plan, the 2024 Plan and the ESPP. These registration statements will become effective immediately on filing. Shares covered by these registration statements will then be eligible for sale in the public markets, subject to vesting restrictions, any applicable lock-up agreements described below, and Rule 144 limitations applicable to affiliates.

Lock-Up and Market Standoff Agreements

We, all of our directors, executive officers, and the holders of substantially all of our common stock and securities exercisable for or convertible into our common stock outstanding immediately prior to the closing of this offering (except for the RSUs previously issued to our employees other than our executive officers, including

[Table of Contents](#)

the RSUs that will settle in connection with the RSU Net Settlement or the Additional RSU Settlement and the warrants issued to Allen and AstraZeneca), have agreed with the underwriters that, until 180 days (or, subject to certain conditions described in the section titled “Underwriting,” a shorter period) after the date of this prospectus, or the restricted period, we and they will not, without the prior written consent of Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC, offer, sell, contract to sell, pledge, grant any option to purchase, make any short sale or otherwise dispose of any of our shares of common stock, any options or warrants to purchase any of our shares of common stock or any securities convertible into or exchangeable for or that represent the right to receive shares of our common stock. In addition, the restricted period may be shortened with respect to a portion of the locked-up securities under certain circumstances and the lock-up agreements are subject to a number of important exceptions, all of which are described in the section titled “Underwriting”. Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC may release any of the securities subject to these lock-up agreements at any time, subject to applicable notice requirements. In addition to the restrictions contained in the lock-up agreements, we have entered into market standoff agreements with substantially all of our RSU holders, including the holders of RSUs that will settle in connection with the RSU Net Settlement and the Additional RSU Settlement, imposing restrictions on the ability of such security holders to offer, sell, contract to sell, pledge, hypothecate, grant any option to purchase or make any short sale of, or otherwise dispose of any shares of our common stock or any rights to acquire our common stock during the restricted period, subject to earlier release at any time by us.

In addition to the restrictions contained in the lock-up agreements described above, we have entered into agreements with all of our RSU holders that contain market standoff provisions imposing restrictions on the ability of such security holders to offer, sell or transfer our equity securities for a period of 180 days following the date of this prospectus. If not earlier released, all of the shares of Class A common stock not sold in this offering will become eligible for sale upon expiration of the restricted period, except for any shares held by our affiliates as defined in Rule 144.

Registration Rights

Upon the closing of this offering, the holders of an aggregate of 135,574,005 shares of our Class A common stock and Class B common stock, or their transferees, will be entitled to certain rights with respect to the registration of the offer and sale of their shares under the Securities Act. Registration of these shares under the Securities Act would result in the shares becoming freely tradable without restriction under the Securities Act immediately on the effectiveness of the registration. See the section titled “Description of Capital Stock—Registration Rights” for additional information.

Rule 10b5-1 Plans

After this offering, certain of our employees, including our executive officers, and/or directors may enter into written trading plans that are intended to comply with Rule 10b5-1 under the Exchange Act. Sales under these trading plans would not be permitted until the expiration of the lock-up agreements relating to the offering described above.

**MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES TO NON-U.S. HOLDERS OF OUR
CLASS A COMMON STOCK**

The following summary describes certain material U.S. federal income tax consequences to Non-U.S. Holders (as defined below) of the ownership, and disposition of our Class A common stock acquired in this offering. This discussion is not a complete analysis of all potential U.S. federal income tax consequences relating thereto, and does not address non-U.S., state, and local tax consequences that may be relevant to Non-U.S. Holders in light of their particular circumstances, nor does it address U.S. federal tax consequences (such as gift and estate taxes) other than income taxes. This discussion is limited to Non-U.S. Holders that hold our Class A common stock as a “capital asset” within the meaning of Section 1221 of the Code (generally, property held for investment). This discussion does not address all U.S. federal income tax consequences relevant to a Non-U.S. Holder’s particular circumstances, including the impact of the alternative minimum tax, the special tax accounting rules under Section 451(b) of the Code (as defined below) and the Medicare contribution tax on net investment income. Special rules different from those described below may apply to certain Non-U.S. Holders that are subject to special treatment under the Code, such as financial institutions, insurance companies, tax-exempt organizations, broker-dealers, and traders in securities, U.S. expatriates, “controlled foreign corporations,” “passive foreign investment companies,” corporations that accumulate earnings to avoid U.S. federal income tax, corporations organized outside of the United States, any state thereof or the District of Columbia that are nonetheless treated as U.S. taxpayers for U.S. federal income tax purposes, persons that hold our Class A common stock as part of a “straddle,” “hedge,” “conversion transaction,” “synthetic security,” or integrated investment or other risk reduction strategy, persons who acquire our Class A common stock through the exercise of an option or otherwise as compensation, “qualified foreign pension funds” as defined in Section 897(1)(2) of the Code and entities all of the interests of which are held by qualified foreign pension funds, partnerships, and other pass-through entities or arrangements and investors in such pass-through entities or arrangements. Such Non-U.S. Holders are urged to consult their own tax advisors to determine the U.S. federal, state, local, and other tax consequences that may be relevant to them. Furthermore, the discussion below is based upon the provisions of the Internal Revenue Code, of 1986, as amended or the Code, and Treasury Regulations, administrative announcements and rulings of the Internal Revenue Service, or the IRS, and judicial decisions thereunder as of the date hereof, and such authorities may be repealed, revoked, or modified, perhaps retroactively, so as to result in U.S. federal income tax consequences different from those discussed below. We have not requested a ruling from the IRS with respect to the statements made and the conclusions reached in the following summary, and there can be no assurance that the IRS will agree with such statements and conclusions.

This discussion is for informational purposes only and is not tax advice. Persons considering the purchase of our Class A common stock pursuant to this offering should consult their own tax advisors concerning the U.S. federal income, estate, and other tax consequences of acquiring, owning, and disposing of our Class A common stock in light of their particular situations as well as any consequences arising under the laws of any other taxing jurisdiction, including any state, local, or non-U.S. tax consequences.

For the purposes of this discussion, a “Non-U.S. Holder” is, for U.S. federal income tax purposes, a beneficial owner of Class A common stock that is neither a U.S. Holder, nor a partnership (or other entity treated as a partnership for U.S. federal income tax purposes regardless of its place of organization or formation). A “U.S. Holder” means a beneficial owner of our Class A common stock that is for U.S. federal income tax purposes any of the following:

- an individual who is a citizen or resident of the United States;
- a corporation or other entity treated as a corporation for U.S. federal income tax purposes created or organized in or under the laws of the United States, any state thereof, or the District of Columbia;
- an estate, the income of which is subject to U.S. federal income taxation regardless of its source; or
- a trust if it (1) is subject to the primary supervision of a court within the United States and one or more U.S. persons have the authority to control all substantial decisions of the trust or (2) has a valid election in effect under applicable U.S. Treasury Regulations to be treated as a U.S. person.

Distributions

Distributions, if any, made on our Class A common stock to a Non-U.S. Holder to the extent made out of our current or accumulated earnings and profits (as determined under U.S. federal income tax principles) generally will constitute dividends for U.S. tax purposes and will be subject to withholding tax at a 30% rate or such lower rate as may be specified by an applicable income tax treaty, subject to the discussions below regarding effectively connected income, backup withholding, and foreign accounts. To obtain a reduced rate of withholding under a treaty, a Non-U.S. Holder generally will be required to provide us with a properly executed IRS Form W-8BEN (in the case of individuals) or IRS Form W-8BEN-E (in the case of entities), or other appropriate form, certifying the Non-U.S. Holder's entitlement to benefits under that treaty. This certification must be provided to us and/or our paying agent prior to the payment of dividends and must be updated periodically. In the case of a Non-U.S. Holder that is an entity, Treasury Regulations and the relevant tax treaty provide rules to determine whether, for purposes of determining the applicability of a tax treaty, dividends will be treated as paid to the entity or to those holding an interest in that entity. If a Non-U.S. Holder holds stock through a financial institution or other agent acting on the holder's behalf, the holder will be required to provide appropriate documentation to such agent. The holder's agent will then be required to provide certification to us and/or our paying agent, either directly or through other intermediaries. If a Non-U.S. Holder is eligible for a reduced rate of U.S. federal withholding tax under an income tax treaty and such Non-U.S. Holder does not timely file the required certification, such Non-U.S. Holder may be able to obtain a refund or credit of any excess amounts withheld by timely filing an appropriate claim for a refund with the IRS.

We generally are not required to withhold tax on dividends paid to a Non-U.S. Holder that are effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States (and, if required by an applicable income tax treaty, are attributable to a permanent establishment or fixed base that such holder maintains in the United States) if a properly executed IRS Form W-8ECI, stating that the dividends are so connected, is furnished to us (or, if stock is held through a financial institution or other agent, to such agent). In general, such effectively connected dividends will be subject to U.S. federal income tax, on a net income basis at the regular rates applicable to U.S. Holders. A corporate Non-U.S. Holder receiving effectively connected dividends may also be subject to an additional "branch profits tax," which is imposed, under certain circumstances, at a rate of 30% (or such lower rate as may be specified by an applicable treaty) on the corporate Non-U.S. Holder's effectively connected earnings and profits, subject to certain adjustments. Non-U.S. Holders should consult their tax advisors regarding any applicable income tax treaties that may provide for different rules.

To the extent distributions on our Class A common stock, if any, exceed our current and accumulated earnings and profits, they will first reduce the Non-U.S. Holder's adjusted basis in our Class A common stock, but not below zero, and then will be treated as gain to the extent of any excess amount distributed, and taxed in the same manner as gain realized from a sale or other disposition of Class A common stock as described in the next section.

Gain on Disposition of Our Class A Common Stock

Subject to the discussions below regarding backup withholding and foreign accounts, a Non-U.S. Holder generally will not be subject to U.S. federal income tax with respect to gain realized on a sale or other taxable disposition of our Class A common stock unless (a) the gain is effectively connected with a trade or business of such holder in the United States (and, if required by an applicable income tax treaty, is attributable to a permanent establishment or fixed base that such holder maintains in the United States), (b) the Non-U.S. Holder is a nonresident alien individual and is present in the United States for 183 or more days in the taxable year of the disposition and certain other conditions are met, or (c) we are or have been a "United States real property holding corporation" within the meaning of Code Section 897(c)(2) at any time within the shorter of the five-year period preceding such disposition or such holder's holding period in our Class A common stock. In general, we would be a United States real property holding corporation if our interests in U.S. real property comprise (by fair market value) at least half of our worldwide real property interests and our other assets used or held for use in a trade or

[Table of Contents](#)

business. We believe that we are not, and do not anticipate becoming, a United States real property holding corporation. Even if we are treated as a United States real property holding corporation, gain realized by a Non-U.S. Holder on a disposition of our Class A common stock will not be subject to U.S. federal income tax so long as (1) the Non-U.S. Holder owned, directly, indirectly, and constructively, no more than 5% of our Class A common stock at all times within the shorter of (i) the five-year period preceding the disposition or (ii) the holder's holding period and (2) our Class A common stock is regularly traded on an established securities market, as defined in applicable Treasury Regulations. There can be no assurance that our Class A common stock will qualify as regularly traded on an established securities market. If a Non-U.S. Holder's gain on disposition of our Class A common stock is taxable because we are a United States real property holding corporation and such Non-U.S. Holder's ownership of our Class A common stock exceeds 5%, such Non-U.S. Holder will be taxed on such disposition generally in the manner as gain that is effectively connected with the conduct of a U.S. trade or business (subject to the provisions under an applicable income tax treaty), except that the branch profits tax generally will not apply to a corporate Non-U.S. Holder.

Non-U.S. Holders described in (a) above will be required to pay tax on the net gain derived from the sale at regular U.S. federal income tax rates applicable to U.S. Holders, and corporate Non-U.S. Holders described in (a) above may be subject to the additional branch profits tax on such gain at a 30% rate or such lower rate as may be specified by an applicable income tax treaty. Gain described in (b) above will be subject to U.S. federal income tax at a flat 30% rate, which gain may be offset by certain U.S.-source capital losses (even though a Non-U.S. Holder is not considered a resident of the United States), provided that the Non-U.S. Holder has timely filed U.S. federal income tax returns with respect to such losses.

Information Reporting Requirements and Backup Withholding

Generally, we must report information to the IRS with respect to any distributions we pay on our Class A common stock (even if the payments are exempt from withholding), including the amount of any such distributions, the name and address of the recipient, and the amount, if any, of tax withheld. A similar report is sent to the holder to whom any such distributions are paid. Pursuant to tax treaties or certain other agreements, the IRS may make its reports available to tax authorities in the recipient's country of residence.

Dividends paid by us (or our paying agents) to a Non-U.S. Holder may also be subject to U.S. backup withholding. U.S. backup withholding generally will not apply to a Non-U.S. Holder who provides a properly executed IRS Form W-8BEN, IRS Form W-8BEN-E, or IRS Form W-ECI, or otherwise establishes an exemption. Notwithstanding the foregoing, backup withholding may apply if the payor has actual knowledge, or reason to know, that the holder is a U.S. person who is not an exempt recipient.

U.S. information reporting and backup withholding requirements generally will apply to the proceeds of a disposition of our Class A common stock effected by or through a U.S. office of any broker, U.S. or foreign, except that information reporting and such requirements may be avoided if the holder provides a properly executed IRS Form W-8BEN or IRS Form W-8BEN-E or otherwise meets documentary evidence requirements for establishing non-U.S. person status or otherwise establishes an exemption. Generally, U.S. information reporting and backup withholding requirements will not apply to a payment of disposition proceeds to a Non-U.S. Holder where the transaction is effected outside the United States through a non-U.S. office of a non-U.S. broker. Information reporting and backup withholding requirements may, however, apply to a payment of disposition proceeds if the broker has actual knowledge, or reason to know, that the holder is, in fact, a U.S. person. For information reporting purposes, certain brokers with substantial U.S. ownership or operations will generally be treated in a manner similar to U.S. brokers.

Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules may be credited against the tax liability of persons subject to backup withholding, provided that the required information is timely furnished to the IRS.

Foreign Accounts

Sections 1471 through 1474 of the Code (commonly referred to as FATCA) impose a U.S. federal withholding tax of 30% on certain payments to a foreign financial institution (as specifically defined by applicable rules) unless such institution enters into an agreement with the U.S. government to withhold on certain payments and to collect and provide to the U.S. tax authorities substantial information regarding U.S. account holders of such institution (which includes certain equity holders of such institution, as well as certain account holders that are foreign entities with U.S. owners). FATCA also generally imposes a federal withholding tax of 30% on certain payments to a non-financial foreign entity unless such entity provides the withholding agent with either a certification that it does not have any substantial direct or indirect U.S. owners or provides information regarding substantial direct and indirect U.S. owners of the entity. An intergovernmental agreement between the United States and an applicable foreign country may modify those requirements. The withholding tax described above will not apply if the foreign financial institution or non-financial foreign entity otherwise qualifies for an exemption from the rules.

FATCA withholding currently applies to payments of dividends, if any, on our Class A common stock and, subject to the proposed Treasury Regulations described in this paragraph, generally also would apply to payments of gross proceeds from the sale or other disposition of our Class A common stock. The U.S. Treasury Department released proposed regulations which, if finalized in their present form, would eliminate the federal withholding tax of 30% applicable to the gross proceeds of a disposition of our Class A common stock. In its preamble to such proposed regulations, the U.S. Treasury Department stated that taxpayers may generally rely on the proposed regulations until final regulations are issued. Non-U.S. holders are encouraged to consult with their own tax advisors regarding the possible implications of FATCA on their investment in our Class A common stock.

EACH PROSPECTIVE INVESTOR SHOULD CONSULT ITS OWN TAX ADVISOR REGARDING THE TAX CONSEQUENCES OF ACQUIRING, OWNING, AND DISPOSING OF OUR CLASS A COMMON STOCK, INCLUDING THE CONSEQUENCES OF ANY RECENT OR PROPOSED CHANGE IN APPLICABLE LAW FROM ALL FEDERAL, STATE, ESTATE, AND GIFT TAX PERSPECTIVES.

UNDERWRITING

Under the terms and subject to the conditions in an underwriting agreement dated the date of this prospectus, the underwriters named below, for whom Morgan Stanley & Co. LLC, J.P. Morgan Securities LLC and Allen & Company LLC are acting as representatives, have severally agreed to purchase, and we have agreed to sell to them, severally, the number of shares of Class A common stock indicated below:

<u>Name</u>	<u>Number of Shares</u>
Morgan Stanley & Co. LLC	
J.P. Morgan Securities LLC	
Allen & Company LLC	
BofA Securities, Inc.	
TD Securities (USA) LLC	
Stifel, Nicolaus & Company, Incorporated	
William Blair & Company, L.L.C.	
Loop Capital Markets LLC	
Needham & Company, LLC	
Total:	<u>11,100,000</u>

The underwriters and the representatives are collectively referred to as the “underwriters” and the “representatives,” respectively. The underwriters are offering the shares of Class A common stock subject to their acceptance of the shares from us and subject to prior sale. The underwriting agreement provides that the obligations of the several underwriters to pay for and accept delivery of the shares of Class A common stock offered by this prospectus are subject to the approval of certain legal matters by their counsel and to certain other conditions. The underwriters are obligated to take and pay for all of the shares of Class A common stock offered by this prospectus if any such shares are taken. However, the underwriters are not required to take or pay for the shares covered by the underwriters’ over-allotment option described below.

The underwriters initially propose to offer part of the shares of Class A common stock directly to the public at the offering price listed on the cover page of this prospectus and part to certain dealers at a price that represents a concession not in excess of \$ _____ per share under the initial public offering price. After the initial offering of the shares of Class A common stock, the offering price and other selling terms may from time to time be varied by the representatives.

We have granted to the underwriters an option, exercisable for 30 days from the date of this prospectus, to purchase up to additional 1,665,000 shares of Class A common stock at the initial public offering price listed on the cover page of this prospectus, less underwriting discounts and commissions. The underwriters may exercise this option solely for the purpose of covering over-allotments, if any, made in connection with the offering of the shares of Class A common stock offered by this prospectus. To the extent the option is exercised, each underwriter will become obligated, subject to certain conditions, to purchase about the same percentage of the additional shares of Class A common stock as the number listed next to the underwriter’s name in the preceding table bears to the total number of shares of Class A common stock listed next to the names of all underwriters in the preceding table.

[Table of Contents](#)

The following table shows the per share and total initial public offering price, underwriting discounts and commissions, and proceeds before expenses to us. These amounts are shown assuming both no exercise and full exercise of the underwriters' option to purchase up to an additional 1,665,000 shares of Class A common stock.

	<u>Per Share</u>	<u>Total</u>	
		<u>No Exercise</u>	<u>Full Exercise</u>
Initial public offering price	\$	\$	\$
Underwriting discounts and commissions to be paid by us	\$	\$	\$
Proceeds, before expenses, to us	\$	\$	\$

The estimated offering expenses payable by us, exclusive of the underwriting discounts and commissions, are approximately \$10.5 million. We have agreed to reimburse the underwriters for expenses relating to clearance of this offering with the Financial Industry Regulatory Authority up to \$75,000.

The underwriters have informed us that they do not intend sales to discretionary accounts to exceed 5% of the total number of shares of Class A common stock offered by them. Our Class A common stock has been approved for listing on the Nasdaq Global Select Market under the trading symbol "TEM."

We have agreed that we will not (i) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend, or otherwise transfer or dispose of, directly or indirectly, any shares of our common stock or any securities convertible into or exercisable or exchangeable for our common stock, or the lock-up securities, or (ii) enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of our common stock, whether any such transaction described in clause (i) or (ii) above is to be settled by delivery of the lock-up securities, in cash or otherwise, or (iii) file any registration statement with the Securities and Exchange Commission, or the SEC, relating to the offering of any lock-up securities, in each case without the prior written consent of Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC, for a period of 180 days after the date of this prospectus, or the restricted period.

The restrictions set forth above applicable to us are subject to specified exceptions, including:

- (1) the shares of Class A common stock to be sold hereunder,
- (2) the issuance by us of lock-up securities pursuant to the conversion or exchange of convertible or exchangeable securities or the exercise of warrants or options (including net exercise) or the settlement of restricted stock units (including net settlement), in each case outstanding on the date of the underwriting agreement and described in this prospectus,
- (3) our issuance of shares of our common stock as payment of accrued dividends in connection with the conversion of our shares of preferred stock in this offering,
- (4) grants of stock options, stock awards, restricted stock, restricted stock units or other equity awards and the issuance of lock-up securities (whether upon the exercise of stock options or otherwise) to our employees, officers, directors, advisors, or consultants pursuant to the terms of a plan in effect on the date hereof and described in this prospectus,
- (5) the establishment or amendment of a trading plan on behalf of any of our stockholders, officers or directors pursuant to Rule 10b5-1 under the Exchange Act for the transfer of shares of our common stock, provided that (i) such plan does not provide for the transfer of our common stock during the restricted period and (ii) to the extent a public announcement or filing under the Exchange Act, if any, is required of or voluntarily made by us regarding the establishment of such plan, such announcement or filing shall include a statement to the effect that no transfer of our common stock may be made under such plan during the restricted period,

Table of Contents

- (6) the filing of any registration statement on Form S-8 relating to securities (i) granted or to be granted pursuant to any plan in effect on the date hereof and described in this prospectus or (b) otherwise eligible to be included on a registration statement on Form S-8 and described in this prospectus, or
- (7) our offer of, or issuance or agreement to issue lock-up securities in connection with an acquisition, merger, joint venture, strategic alliance, commercial or other collaborative relationship or the acquisition or license by us or any of our subsidiaries of the securities, business, property or other assets of another person or entity or pursuant to any employee benefit plan as assumed by us in connection with any such acquisition or transaction, provided that the aggregate number of lock-up securities that we may sell or issue or agree to sell or issue pursuant to this paragraph shall not exceed 15.0% of the total number of shares of our common stock outstanding immediately following the issuance of our Class A common stock in this offering and provided further that the recipients of such securities provide to Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC a signed lock-up agreement substantially in the form of the lock-up letter delivered by certain of our stockholders, officers and directors as required under the underwriting agreement.

All of our directors, executive officers and the holders of substantially all of our common stock and securities exercisable for or convertible into our common stock outstanding immediately prior to the closing of this offering (except for RSUs previously issued to our employees other than our executive officers, including the RSUs that will settle in connection with the RSU Net Settlement or the Additional RSU Settlement, and the warrants issued to Allen and AstraZeneca), or the lock-up parties, have entered into lock-up agreements prior to the commencement of this offering pursuant to which each lock-up party, with important exceptions described in the following paragraph, will not (and will not publicly disclose an intention to), for the duration of the restricted period, (i) lend, offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, or otherwise transfer or dispose of, directly or indirectly, any lock-up securities, or (ii) enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of the common stock, whether any such transaction described above is to be settled by delivery of lock-up securities, in cash or otherwise. In addition, each lock-up party will agree that such lock-up party will not, during the restricted period, make any demand for, or exercise any right with respect to, the registration of any lock-up securities, for the duration of the restricted period.

The restrictions described in the immediately preceding paragraph do not apply to:

- (a) the sale of shares of Class A common stock to the underwriters;
- (b) transactions by any person other than us relating to shares of Class A common stock or other securities acquired in this offering or in open market transactions after the completion of this offering, provided that no filing under the Exchange Act, or other public announcement, reporting a reduction in beneficial ownership of shares of Class A common stock is required or voluntarily made in connection with subsequent sales of Class A common stock or other securities acquired in this offering or in such open market transactions during the restricted period;
- (c) transfers of lock-up securities (i) as a bona fide gift, (ii) to an immediate family member or to any trust for the direct or indirect benefit of the holder or an immediate family member of the holder, (iii) to any corporation, partnership, limited liability company, investment fund, trust or other entity controlled or managed, or under common control or management by, the holder, or (iv) by will, other testamentary document or intestate succession to the legal representative, heir, beneficiary or an immediate family member of the holder, provided that, in the case of any such transfer, (a) each transferee shall sign and deliver a lock-up agreement and (b) no filing under the Exchange Act, or other public announcement, reporting a reduction in beneficial ownership of shares of common stock is required or voluntarily made during the restricted period;
- (d) if the holder is a corporation, partnership, limited liability company, trust or other business entity, transfers or distributions of lock-up securities to general or limited partners, managers or members, stockholders, other equityholders or direct or indirect affiliates (within the meaning of Rule 405 under the Securities Act) of the holder or to the estates of any of the foregoing, provided that (i) each

transferee or distributee shall sign and deliver a lock-up agreement and (ii) no filing under the Exchange Act, or other public announcement, reporting a reduction in beneficial ownership of shares of common stock is required or voluntarily made during the restricted period;

- (e) the transfer to us of lock-up securities to satisfy any tax, including estimated tax, remittance, or other payment obligations of the holder arising in connection with a vesting event of our securities, upon the settlement of restricted stock units or the payment due for the exercise of options or other rights to purchase our securities (including, in each case, by way of a “cashless” or “net exercise” basis and any transfer to us necessary in respect of such amount needed for the payment of taxes, including estimated taxes, and remittance payments due as a result of such vesting, settlement or exercise including by means of a “net settlement”, “sell-to-cover” or otherwise), in all such cases pursuant to equity awards granted under a stock incentive plan or other of our equity award plans described in this *provided* that such vesting, settlement or exercise occurs on terms described in this prospectus; *provided* further that (i) any remaining shares of common stock received upon such vesting, settlement or exercise are subject to the aforementioned restrictions, (ii) no filing under the Exchange Act, or other public announcement, shall be voluntarily made during the restricted period and (iii) any filing required under the Exchange Act shall clearly indicate in the footnotes thereto that the filing relates to the circumstances described in this bullet;
- (f) the establishment of a trading plan by the holder pursuant to Rule 10b5-1 under the Exchange Act for the transfer of shares of common stock, provided that (i) such plan does not provide for the transfer of common stock during the restricted period and (ii) to the extent a public announcement or filing under the Exchange Act, if any, is required of or voluntarily made by or on behalf of the holder or on our behalf regarding the establishment of such plan, such announcement or filing shall include a statement to the effect that no transfer of common stock may be made under such plan during the restricted period;
- (g) the transfer of lock-up securities that occurs by operation of law pursuant to a qualified domestic order or in connection with a divorce settlement or other court order, provided that (i) the transferee shall sign and deliver a lock-up agreement and (ii) no filing under the Exchange Act, or other public announcement, shall be required or shall be voluntarily made during the restricted period (other than any filing required under Section 16(a) of the Exchange Act that shall clearly indicate in the footnotes thereto that the filing relates to the circumstances described in this bullet);
- (h) the conversion of shares of our convertible preferred stock or Class B common stock into shares of Class A common stock as described in this prospectus, provided that, in each case (i) such shares shall continue to be subject to the aforementioned restrictions on transfer and (ii) no filing under the Exchange Act, or other public announcement, shall be required or voluntarily made during the restricted period (other than any filing required under Section 16(a) of the Exchange Act that clearly indicates in the footnotes thereto that the filing relates to the circumstances described in this bullet);
- (i) the transfer of lock-up securities pursuant to a bona fide third-party tender offer, merger, consolidation or other similar transaction that is approved by our board of directors, made to all holders of common stock involving a change of control, provided that, in the event that the tender offer, merger, consolidation or other such transaction is not completed, the common stock owned by the holder shall remain subject to the aforementioned restrictions; or
- (j) any transfer of lock-up securities pledged in a bona fide transaction to third parties as collateral to secure obligations pursuant to lending or other arrangements in effect as of the date hereof between such third parties (or their affiliates or designees) and the holder or its affiliates or any similar arrangement relating to a financing arrangement for the benefit of the holder or its affiliates, provided that (i) any such pledgee or other party shall, upon foreclosure on the pledged securities, sign and deliver a lock-up agreement and (ii) no filing under the Exchange Act, or any other public filing or disclosure, of such transfer by or on behalf of the holder, shall be required or shall be voluntarily made during the restricted period.

[Table of Contents](#)

Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC, in their joint discretion, may release the lock-up securities described above in whole or in part at any time, subject to applicable notice requirements. In addition, subject to certain limited, more favorable exceptions, in the event that any officer, director or other holder holding in excess of 1% of our outstanding shares of common stock is granted an early release from the lock-up restrictions with respect to our securities in an aggregate amount in excess of 1% of our outstanding shares of common stock (whether in one or multiple releases), then every other person subject to lock-up automatically will be granted an equivalent early release from its obligations under the lock-up agreement on a pro rata basis. With certain limited exceptions, such release (i) shall not be applicable if it is effected solely to permit a transfer not for consideration and the transferee has agreed in writing to be bound by the restrictions described above, and (ii) in certain cases, in the event of an underwritten public offering during the restricted period, shall only apply with respect to the holder's participation in the underwritten offering. Notwithstanding any other provisions of the lock-up agreement, in certain cases, if Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC, in their sole judgment, determine that a holder of any securities that is a natural person should be granted an early release from a lock-up agreement due to circumstances of an emergency or hardship, then no other holder shall have any right to be granted an early release from the lock-up agreement.

If the closing price per share of our Class A common stock on The Nasdaq Stock Market LLC is at least 30% greater than the initial public offering price per share of our Class A common stock set forth on the cover page of this prospectus for (i) any ten trading days (which, for the avoidance of doubt, need not be consecutive trading days) during the period ending on, and including, the date that we publicly announce our earnings for the first completed quarterly period following the most recent period for which financial statements are included in this prospectus (which, for this purpose, shall not include "flash" numbers or preliminary partial earnings) and (ii) any one trading day following such initial post-offering earnings release date, then the restricted period shall automatically expire on the date that is the later of (a) the date on which the conditions set forth in both (i) and (ii) above are satisfied and (b) two trading days following our initial post-offering earnings release date. Such release will correspond to 30% of the holder's aggregate shares of our common stock, to the extent vested, and such released shares may be sold in the public market, subject to compliance with applicable securities laws including, without limitation, Rule 144 under the Securities Act, and compliance with our insider trading policy then in effect, beginning at the commencement of the first trading day following the early release date.

In the event that the end of the restricted period would fall during one of our quarterly blackout periods during which trading by certain of our employees in our securities would not be permitted under our insider trading policy then in effect, the restricted period shall automatically expire on the date that is the later of (i) ten trading days prior to the date that such blackout period begins and (ii) the 150th day after the date of this prospectus.

In addition to the restrictions contained in the lock-up agreements, we have entered into market standoff agreements with substantially all of our RSU holders, including the holders of RSUs that will settle in connection with the RSU Net Settlement and the Additional RSU Settlement, imposing restrictions on the ability of such security holders to offer, sell, contract to sell, pledge, hypothecate, grant any option to purchase or make any short sale of, or otherwise dispose of any shares of our common stock or any rights to acquire our common stock during the restricted period, subject to earlier release at any time by us with the consent of Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC. Similarly, our warrants held by AstraZeneca and Allen also contain market standoff provisions that impose restrictions on the ability of AstraZeneca and Allen to, during the restricted period, sell, dispose of, transfer, grant any option for the purchase of, or enter into any hedging or similar transaction with the same economic effect as a sale, shares of our common stock or any securities convertible into or exercisable or exchangeable for our common stock.

If not earlier released, all of the shares of Class A common stock not sold in this offering will become eligible for sale upon expiration of the restricted period, except for any shares held by our affiliates as defined in Rule 144.

[Table of Contents](#)

Pursuant to certain exceptions in the lock-up agreements and because of our ability to release RSU holders early under the market standoff agreements, certain shares of our Class A common stock will be sold in the open market by our employees, including our Chief Executive Officer, during the restricted period described above in sell-to-cover transactions in order to satisfy tax withholding obligations in connection with the settlement of RSUs for shares of our Class A common stock as follows:

Date First Available for Sale into the Market	Number of RSUs Expected to Settle	Approximate Number of Shares of Class A Common Stock to be Sold in Sell-to-Cover Transactions⁽¹⁾
91 days after the date of this prospectus (or the next trading day if such date is not a trading day)	5,362,261	2,413,017
120 days after the date of this prospectus (or the next trading day if such date is not a trading day)	5,362,262	2,413,018

(1) Assumes a 45% tax rate. Includes an estimated approximately 868,258 shares that may be sold on or after each of the 91st and 120th day following the date of this prospectus in respect of settlement of RSUs held by our Chief Executive Officer.

The dates and numbers above are estimates. We expect each settlement and sell-to-cover transaction to extend over a multi-day period based on trading volumes. Because the purpose of sell-to-cover transactions is to generate proceeds sufficient to satisfy tax withholding obligations, the exact number of shares sold will depend on the sale prices of the Class A common stock in such transactions and our stockholders' personal tax rates.

In order to facilitate the offering of the Class A common stock, the underwriters may engage in transactions that stabilize, maintain or otherwise affect the price of the Class A common stock. Specifically, the underwriters may sell more shares than they are obligated to purchase under the underwriting agreement, creating a short position. A short sale is covered if the short position is no greater than the number of shares available for purchase by the underwriters under the over-allotment option. The underwriters can close out a covered short sale by exercising the over-allotment option or purchasing shares in the open market. In determining the source of shares to close out a covered short sale, the underwriters will consider, among other things, the open market price of shares compared to the price available under the over-allotment option. The underwriters may also sell shares in excess of the over-allotment option, creating a naked short position. The underwriters must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the Class A common stock in the open market after pricing that could adversely affect investors who purchase in this offering. As an additional means of facilitating this offering, the underwriters may bid for, and purchase, shares of Class A common stock in the open market to stabilize the price of the Class A common stock. These activities may raise or maintain the market price of the Class A common stock above independent market levels or prevent or retard a decline in the market price of the Class A common stock. The underwriters are not required to engage in these activities and may end any of these activities at any time. Any such stabilization activities will be conducted in accordance with Regulation M.

We and the underwriters have agreed to indemnify each other against certain liabilities, including liabilities under the Securities Act.

A prospectus in electronic format may be made available on websites maintained by one or more underwriters, or selling group members, if any, participating in this offering. The representatives may agree to allocate a number of shares of Class A common stock to underwriters for sale to their online brokerage account

[Table of Contents](#)

holders. Internet distributions will be allocated by the representatives to underwriters that may make Internet distributions on the same basis as other allocations.

Other Relationships

The underwriters and their respective affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, financial advisory, investment management, investment research, principal investment, hedging, financing and brokerage activities. Certain of the underwriters and their respective affiliates have, from time to time, performed, and may in the future perform, various financial advisory and investment banking services for us, for which they received or will receive customary fees and expenses.

In addition, in the ordinary course of their various business activities, the underwriters and their respective affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers and may at any time hold long and short positions in such securities and instruments. Such investment and securities activities may involve our securities and instruments. The underwriters and their respective affiliates may also make investment recommendations or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long or short positions in such securities and instruments.

In December 2023, in connection with our entry into a letter agreement with Allen for certain financial advisory services provided by Allen to us, we issued, as compensation for such services, a warrant to Allen to purchase up to 150,000 shares of our Class A common stock at an exercise price of \$10.00 per share, as more fully described in the section titled “Description of Capital Stock—Warrants” in this prospectus. Pursuant to the Warrant Net Exercise, Allen will receive 108,333 shares of Class A common stock following this offering (assuming an initial public offering price of \$36.00 per share, the midpoint of the estimated price range set forth on the cover page of this prospectus). The Financial Industry Regulatory Authority deems such shares to have a compensation value of \$. In no event will total underwriting compensation, as calculated under FINRA rules, exceed 9% of the gross proceeds of this offering. Such shares may not be sold, transferred, assigned, pledged, or hypothecated, or be the subject of any hedging, short sale, derivative, put, or call transaction that would result in the effective economic disposition of the shares for a period of 180 days beginning on the date of this prospectus, except as provided in FINRA Rule 5110(e)(2).

Pricing of the Offering

Prior to this offering, there has been no public market for our Class A common stock. The initial public offering price will be determined by negotiations between us and the representatives. Among the factors to be considered in determining the initial public offering price are our future prospects and those of our industry in general, our sales, earnings and certain other financial and operating information in recent periods, and the price-earnings ratios, price-sales ratios, market prices of securities, and certain financial and operating information of companies engaged in activities similar to ours.

Selling Restrictions

European Economic Area

In relation to each Member State of the European Economic Area, or an EEA State, no shares of Class A common stock, or the Shares, have been offered or will be offered pursuant to the offering to the public in that EEA State prior to the publication of a prospectus in relation to the Shares which has been approved by the competent authority in that EEA State or, where appropriate, approved in another EEA State and notified to the competent authority in that EEA State, all in accordance with the EU Prospectus Regulation, except that it may make an offer of the Shares to the public in that EEA State at any time under the following exemptions under the EU Prospectus Regulation:

- (a) to any legal entity which is a qualified investor as defined under the EU Prospectus Regulation;

Table of Contents

- (b) to fewer than 150 natural or legal persons (other than qualified investors as defined under the EU Prospectus Regulation), subject to obtaining the prior consent of the representatives for any such offer; or
- (c) in any other circumstances falling within Article 1(4) of the EU Prospectus Regulation, provided that no such offer of the Shares shall require the issuer or any underwriter to publish a prospectus pursuant to Article 3 of the EU Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the EU Prospectus Regulation,

For the purposes of this provision, the expression an “offer to the public” in relation to the Shares in any EEA State means the communication in any form and by any means of sufficient information on the terms of the offer and the Shares to be offered so as to enable an investor to decide to purchase or subscribe for the Shares, and the expression “EU Prospectus Regulation” means Regulation (EU) 2017/1129.

This European Economic Area selling restriction is in addition to any other selling restrictions set out below.

United Kingdom

In relation to the United Kingdom, no shares of Class A common stock have been offered or will be offered pursuant to the offering to the public in the United Kingdom prior to the publication of a prospectus in relation to the shares of Class A common stock which has been approved by the Financial Conduct Authority in accordance with the UK Prospectus Regulation, except that it may make an offer to the public in the United Kingdom of the shares of Class A common stock at any time under the following exemptions under the UK Prospectus Regulation:

- (a) to any legal entity which is a qualified investor as defined under the UK Prospectus Regulation;
- (b) to fewer than 150 natural or legal persons (other than qualified investors as defined under the UK Prospectus Regulation), subject to obtaining the prior consent of the underwriters for any such offer; or
- (c) in any other circumstances falling within Article 1(4) of the UK Prospectus Regulation;

provided that no such offer of the shares of Class A common stock shall require the issuer or any underwriter to publish a prospectus pursuant to Article 3 of the UK Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the UK Prospectus Regulation.

In the United Kingdom, the offering is only addressed to, and is directed only at, “qualified investors” within the meaning of Article 2(e) of the UK Prospectus Regulation, who are also (i) persons having professional experience in matters relating to investments who fall within the definition of “investment professionals” in Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, or the Order; (ii) high net worth bodies corporate, unincorporated associations and partnerships and trustees of high value trusts as described in Article 49(2) of the Order; or (iii) persons to whom it may otherwise lawfully be communicated (all such persons being referred to as “relevant persons”). This prospectus must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this prospectus relates is available only to relevant persons and will be engaged in only with relevant persons.

For the purposes of this provision, the expression an “offer to the public” in relation to the shares of Class A common stock in the United Kingdom means the communication in any form and by any means of sufficient information on the terms of the offerings and the shares of Class A common stock to be offered so as to enable an investor to decide to purchase or subscribe for the shares of Class A common stock, and the expression “UK Prospectus Regulation” means the UK version of Regulation (EU) No 2017/1129 as amended by The Prospectus (Amendment etc.) (EU Exit) Regulations 2019, which is part of UK law by virtue of the European Union (Withdrawal) Act 2018.

Canada

The shares of Class A common stock may be sold in Canada only to purchasers purchasing, or deemed to be purchasing, as principal that are accredited investors, as defined in National Instrument 45-106 Prospectus Exemptions or subsection 73.3(1) of the Securities Act (Ontario), and are permitted clients, as defined in National Instrument 31-103 Registration Requirements, Exemptions, and Ongoing Registrant Obligations. Any resale of the shares of Class A common stock must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus (including any amendment thereto) contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser's province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser's province or territory for particulars of these rights or consult with a legal advisor.

Pursuant to section 3A.3 of National Instrument 33-105 Underwriting Conflicts (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

Japan

No registration pursuant to Article 4, paragraph 1 of the Financial Instruments and Exchange Law of Japan (Law No. 25 of 1948, as amended), or the FIEL, has been made or will be made with respect to the solicitation of the application for the acquisition of the shares of Class A common stock.

Accordingly, the shares of Class A common stock have not been, directly or indirectly, offered or sold and will not be, directly or indirectly, offered or sold in Japan or to, or for the benefit of, any resident of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan) or to others for re-offering or re-sale, directly or indirectly, in Japan or to, or for the benefit of, any resident of Japan except pursuant to an exemption from the registration requirements, and otherwise in compliance with, the FIEL and any other applicable laws, regulations and ministerial guidelines of Japan in effect at the relevant time.

For Qualified Institutional Investors ("QII")

Please note that the solicitation for newly issued or secondary securities (each as described in Paragraph 2, Article 4 of the FIEL) in relation to the shares of Class A common stock constitutes either a "QII only private placement" or a "QII only secondary distribution" (each as described in Paragraph 1, Article 23-13 of the FIEL). Disclosure regarding any such solicitation, as is otherwise prescribed in Paragraph 1, Article 4 of the FIEL, has not been made in relation to the shares of Class A common stock. The shares of Class A common stock may only be transferred to QIIs.

For Non-QII Investors

Please note that the solicitation for newly issued or secondary securities (each as described in Paragraph 2, Article 4 of the FIEL) in relation to the shares of Class A common stock constitutes either a "small number private placement" or a "small number private secondary distribution" (each as is described in Paragraph 4, Article 23-13 of the FIEL). Disclosure regarding any such solicitation, as is otherwise prescribed in Paragraph 1, Article 4 of the FIEL, has not been made in relation to the shares of Class A common stock. The shares of Class A common stock may only be transferred en bloc without subdivision to a single investor.

Hong Kong

The shares of Class A common stock may not be offered or sold by means of any document other than (i) in circumstances which do not constitute an offer to the public within the meaning of the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32, Laws of Hong Kong), or (ii) to “professional investors” within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder, or (iii) in other circumstances which do not result in the document being a “prospectus” within the meaning of the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32, Laws of Hong Kong), and no advertisement, invitation or document relating to the shares of Class A common stock may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the laws of Hong Kong) other than with respect to shares of Class A common stock which are or are intended to be disposed of only to persons outside Hong Kong or only to “professional investors” within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder.

Singapore

This prospectus has not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this prospectus and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the shares of Class A common stock may not be circulated or distributed, nor may the shares of Class A common stock be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (1) to an institutional investor (as defined under Section 4A of the Securities and Futures Act, Chapter 289 of Singapore (the “SFA”)) under Section 274 of the SFA, (2) to a relevant person (as defined in Section 275(2) of the SFA) pursuant to Section 275(1) of the SFA, or any person pursuant to Section 275(1A) of the SFA, and in accordance with the conditions specified in Section 275 of the SFA or (3) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA, in each case subject to conditions set forth in the SFA.

Where the shares of Class A common stock are subscribed or purchased under Section 275 of the SFA by a relevant person which is a corporation (which is not an accredited investor (as defined in Section 4A of the SFA)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor, the securities (as defined in Section 239(1) of the SFA) of that corporation shall not be transferable for six months after that corporation has acquired the shares of Class A common stock under Section 275 of the SFA except: (1) to an institutional investor under Section 274 of the SFA or to a relevant person (as defined in Section 275(2) of the SFA), (2) where such transfer arises from an offer in that corporation’s securities pursuant to Section 275(1A) of the SFA, (3) where no consideration is or will be given for the transfer, (4) where the transfer is by operation of law, (5) as specified in Section 276(7) of the SFA or (6) as specified in Regulation 32 of the Securities and Futures (Offers of Investments) (Shares and Debentures) Regulations 2005 of Singapore (“Regulation 32”).

Where the shares of Class A common stock are subscribed or purchased under Section 275 of the SFA by a relevant person which is a trust (where the trustee is not an accredited investor (as defined in Section 4A of the SFA)) whose sole purpose is to hold investments and each beneficiary of the trust is an accredited investor, the beneficiaries’ rights and interest (howsoever described) in that trust shall not be transferable for six months after that trust has acquired the shares of Class A common stock under Section 275 of the SFA except:

- (1) to an institutional investor under Section 274 of the SFA or to a relevant person (as defined in Section 275(2) of the SFA), (2) where such transfer arises from an offer that is made on terms that such rights or interest are acquired at a consideration of not less than S\$200,000 (or its equivalent in a foreign currency) for each transaction (whether such amount is to be paid for in cash or by exchange of securities or other assets), (3) where no consideration is or will be given for the transfer, (4) where the transfer is by operation of law, (5) as specified in Section 276(7) of the SFA or (6) as specified in Regulation 32.

[Table of Contents](#)

Solely for the purposes of our obligations pursuant to Section 309B of the SFA, we have determined, and hereby notify all relevant persons (as defined in the Securities and Futures (Capital Markets Products) Regulations 2018, or the CMP Regulations, that the shares of Class A common stock are “prescribed capital markets products” (as defined in the CMP Regulations) and Excluded Investment Products (as defined in MAS Notice SFA 04-N12: Notice on the Sale of Investment Products and MAS Notice FAA-N16: Notice on Recommendations on Investment Products).

LEGAL MATTERS

The validity of the shares of Class A common stock being offered by this prospectus will be passed upon for us by Cooley LLP, Chicago, Illinois. Certain legal matters in connection with this offering will be passed upon for the underwriters by Davis Polk & Wardwell LLP, Menlo Park, California.

EXPERTS

The financial statements as of December 31, 2023 and 2022, and for each of the two years in the period ended December 31, 2023, included in this prospectus, have been so included in reliance on the report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

We have filed with the SEC a registration statement on Form S-1 under the Securities Act with respect to the shares of Class A common stock offered by this prospectus. This prospectus, which constitutes a part of the registration statement, does not contain all the information set forth in the registration statement, some of which is contained in exhibits to the registration statement as permitted by the rules and regulations of the SEC. For further information with respect to us and our Class A common stock, we refer you to the registration statement, including the exhibits filed as a part of the registration statement. Statements contained in this prospectus concerning the contents of any contract or any other document are not necessarily complete. If a contract or document has been filed as an exhibit to the registration statement, please see the copy of the contract or document that has been filed. Each statement in this prospectus relating to a contract or document filed as an exhibit is qualified in all respects by the filed exhibit. The SEC maintains an internet website that contains reports and other information about issuers, like us, that file electronically with the SEC. The address of that website is www.sec.gov.

On the closing of this offering, we will be subject to the information reporting requirements of the Exchange Act, and we will file reports, proxy statements, and other information with the SEC. These reports, proxy statements, and other information will be available at www.sec.gov.

We also maintain a website at www.tempus.com. Information contained in, or accessible through, our website is not a part of this prospectus, and the inclusion of our website address in this prospectus is only as an inactive textual reference.

[Table of Contents](#)

Tempus AI, Inc.
Financial Statements
Table of Contents

Report of Independent Registered Public Accounting Firm	F-2
Consolidated Financial Statements	
Consolidated Balance Sheets	F-3
Consolidated Statements of Operations and Comprehensive Loss	F-5
Consolidated Statements of Cash Flows	F-6
Consolidated Statements of Redeemable Convertible Preferred Stock, Common Stock and Stockholders' Deficit	F-8
Notes to Consolidated Financial Statements	F-10-F-50

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Tempus AI, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Tempus AI, Inc. and its subsidiaries (the “Company”) as of December 31, 2023 and 2022, and the related consolidated statements of operations and comprehensive loss, of redeemable convertible preferred stock, common stock and stockholders’ deficit, and of cash flows for the years then ended, including the related notes (collectively referred to as the “consolidated financial statements”). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and 2022, and the results of its operations and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

Change in Accounting Principle

As discussed in Note 2 to the consolidated financial statements, the Company changed the manner in which it accounts for leases in 2022.

Basis for Opinion

These consolidated financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s consolidated financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits of these consolidated financial statements in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud.

Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ PricewaterhouseCoopers LLP
Chicago, Illinois
February 28, 2024

We have served as the Company’s auditor since 2019.

Tempus AI, Inc.
CONSOLIDATED BALANCE SHEETS
(in thousands, except share and per share amounts)

	<u>December 31,</u> <u>2022</u>	<u>December 31,</u> <u>2023</u>	<u>March 31,</u> <u>2024</u> <u>(Unaudited)</u>
Assets			
Current Assets			
Cash and cash equivalents	\$ 302,938	\$ 165,767	\$ 79,942
Accounts receivable, net of allowances of \$2,942, \$1,115, and \$1,045 at December 31, 2022 and 2023 and March 31, 2024, respectively	88,684	94,462	107,795
Inventory	22,282	28,845	30,129
Warrant asset	—	5,070	2,500
Prepaid expenses and other current assets	19,450	17,295	23,024
Marketable equity securities	—	31,807	14,956
Deferred offering costs	5,275	7,085	8,217
Total current assets	<u>\$ 438,629</u>	<u>\$ 350,331</u>	<u>\$ 266,563</u>
Property and equipment, net	44,105	61,681	59,217
Goodwill	53,100	73,354	73,346
Warrant asset, less current portion	—	4,930	2,800
Intangible assets, net	37,278	21,916	18,996
Investments and other assets	8,830	8,971	7,677
Warrant contract asset, less current portion	24,948	21,499	20,288
Finance lease right-of-use assets	283	—	—
Operating lease right-of-use assets	23,398	20,530	19,535
Restricted cash	793	840	850
Total Assets	<u>\$ 631,364</u>	<u>\$ 564,052</u>	<u>\$ 469,272</u>
Liabilities, Convertible redeemable preferred stock, and Stockholders' deficit			
Current Liabilities			
Accounts payable	45,987	54,421	43,997
Accrued expenses	55,272	82,517	82,250
Deferred revenue	50,142	64,860	57,352
Other current liabilities	2,355	8,213	7,337
Operating lease liabilities	6,070	6,437	6,542
Finance lease liabilities	288	—	—
Accrued data licensing fees	8,500	6,382	3,703
Accrued dividends	5,625	9,797	8,343
Total current liabilities	<u>\$ 174,239</u>	<u>\$ 232,627</u>	<u>\$ 209,524</u>
Operating lease liabilities, less current portion	37,125	32,040	32,730
Minimum accrued data licensing fees, less current portion	6,613	—	—
Convertible promissory note	221,094	193,124	186,733
Warrant liability	42,500	34,500	35,300
Other long-term liabilities	9,604	19,751	18,145
Interest payable	39,485	55,321	58,964
Long-term debt, net	168,452	256,541	259,196
Deferred revenue, less current portion	35,136	16,768	8,303
Total Liabilities	<u>\$ 734,248</u>	<u>\$ 840,672</u>	<u>\$ 808,895</u>

[Table of Contents](#)

	<u>December 31,</u> <u>2022</u>	<u>December 31,</u> <u>2023</u>	<u>March 31,</u> <u>2024</u> <u>(Unaudited)</u>
Commitments and contingencies (Note 6)			
Convertible redeemable preferred stock, \$0.0001 par value, 65,441,289, 69,803,765, and 69,803,765 shares authorized at December 31, 2022 and 2023 and March 31, 2024, respectively; 62,692,927, 63,525,953, and 63,603,084 shares issued and outstanding at December 31, 2022 and 2023 and March 31, 2024, respectively; aggregate liquidation preference of \$1,043,757, \$1,130,429, and \$1,143,105 at December 31, 2022 and 2023 and March 31, 2024, respectively	1,026,143	1,105,543	1,134,802
Stockholders' deficit			
Voting Common Stock, \$0.0001 par value, 195,865,548 shares authorized at December 31, 2022 and 200,228,024 shares authorized at December 31, 2023 and March 31, 2024, 58,367,961 shares issued and outstanding at December 31, 2022 and 2023 and March 31, 2024	\$ 6	\$ 6	\$ 6
Non-voting Common Stock, \$0.0001 par value, 66,946,627 shares authorized at December 31, 2022 and 2023 and March 31, 2024; 4,932,415 shares issued and outstanding at December 31, 2022 and 5,205,802 shares issued and 5,060,336 shares outstanding at December 31, 2023 and 5,214,943 shares issued and 5,069,477 shares outstanding at March 31, 2024	0	0	0
Treasury Stock, 145,466 shares at December 31, 2022 and 2023 and March 31, 2024, at cost	—	(3,602)	(3,602)
Additional Paid-In Capital	9,251	18,345	18,689
Accumulated Other Comprehensive Income	18	5	(51)
Accumulated deficit	(1,138,302)	(1,396,917)	(1,489,467)
Total Stockholders' deficit	<u>\$ (1,129,027)</u>	<u>\$ (1,382,163)</u>	<u>\$ (1,474,425)</u>
Total Liabilities, Convertible redeemable preferred stock, and Stockholders' deficit	<u>\$ 631,364</u>	<u>\$ 564,052</u>	<u>\$ 469,272</u>

The accompanying notes are an integral part of these consolidated financial statements.

Tempus AI, Inc.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS
(in thousands, except share and per share amounts)

	Year Ended		Three Months Ended	
	December 31, 2022	December 31, 2023	March 31, 2023	March 31, 2024
	(unaudited)			
Net revenue				
Genomics	\$ 197,984	\$ 363,022	\$ 82,058	\$ 102,569
Data and services	122,684	168,800	33,566	43,251
Total net revenue	<u>\$ 320,668</u>	<u>\$ 531,822</u>	<u>\$ 115,624</u>	<u>\$ 145,820</u>
Cost and operating expenses				
Cost of revenues, genomics	150,255	189,165	45,280	52,835
Cost of revenues, data and services	40,227	56,482	11,393	15,288
Technology research and development	79,093	95,155	22,902	27,067
Research and development	83,158	90,343	20,863	24,340
Selling, general and administrative	233,377	296,760	69,047	79,564
Total cost and operating expenses	<u>586,110</u>	<u>727,905</u>	<u>169,485</u>	<u>199,094</u>
Loss from operations	<u>\$ (265,442)</u>	<u>\$ (196,083)</u>	<u>\$ (53,861)</u>	<u>\$ (53,274)</u>
Interest income	3,032	7,601	2,424	1,031
Interest expense	(21,894)	(46,869)	(9,191)	(13,238)
Other (expense) income, net	(4,846)	21,822	6,388	749
Loss before provision for income taxes	<u>\$ (289,150)</u>	<u>\$ (213,529)</u>	<u>\$ (54,240)</u>	<u>\$ (64,732)</u>
Provision for income taxes	(66)	(288)	(6)	(11)
Losses from equity method investments	(595)	(301)	(131)	—
Net Loss	<u>\$ (289,811)</u>	<u>\$ (214,118)</u>	<u>\$ (54,377)</u>	<u>\$ (64,743)</u>
Accretion of convertible preferred stock to redemption value	(301)	(4,338)	—	—
Dividends on Series A, B, B-1, B-2, C, D, E, F, G G-3, and G-4 preferred shares	(40,975)	(44,497)	(10,669)	(27,807)
Cumulative Undeclared Dividends on Series C preferred shares	(2,841)	(3,011)	(721)	(506)
Net loss attributable to common shareholders, basic and diluted	<u>(333,928)</u>	<u>(265,964)</u>	<u>(65,767)</u>	<u>(93,056)</u>
Net loss per share attributable to common shareholders, basic and diluted	<u>\$ (5.30)</u>	<u>\$ (4.20)</u>	<u>\$ (1.04)</u>	<u>\$ (1.47)</u>
Weighted-average shares outstanding used to compute net loss per share, basic and diluted	<u>63,032</u>	<u>63,306</u>	<u>63,229</u>	<u>63,430</u>
Comprehensive Loss, net of tax				
Net loss	<u>\$ (289,811)</u>	<u>\$ (214,118)</u>	<u>\$ (54,377)</u>	<u>\$ (64,743)</u>
Foreign currency translation adjustment	29	(13)	(28)	(56)
Comprehensive loss	<u>\$ (289,782)</u>	<u>\$ (214,131)</u>	<u>\$ (54,405)</u>	<u>\$ (64,799)</u>

The accompanying notes are an integral part of these consolidated financial statements.

Tempus AI, Inc.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in thousands, except share and per share amounts)

	December 31, 2022	December 31, 2023	March 31, 2023	March 31, 2024
	(Unaudited)			
Operating activities				
Net loss	\$ (289,811)	\$ (214,118)	\$ (54,377)	\$ (64,743)
Adjustments to reconcile net loss to net cash used in operating activities				
Change in fair value of warrant liability	\$ 4,700	\$ (8,000)	\$ (6,400)	\$ 800
Gain on marketable equity securities	—	(9,807)	—	(6,246)
Amortization of original issue discount	238	1,117	218	345
Amortization of deferred financing fees	139	510	128	128
Change in fair value of contingent consideration	(3,701)	(400)	—	194
Amortization of warrant contract asset	4,720	5,221	1,654	1,211
Depreciation and amortization	30,029	33,049	7,948	9,189
Provision for bad debt expense	3,867	1,646	921	219
Provision for obsolete inventory	1,938	—	—	—
Change in fair value of warrant asset	—	(4,100)	—	4,700
Loss from equity-method investments	595	301	131	—
Amortization of finance right-of-use lease assets	381	283	95	—
Non-cash operating lease costs	6,427	6,760	1,691	1,674
Minimum accretion expense	455	90	62	70
Impairment of intangible assets	—	7,359	7,359	—
PIK interest added to principal	—	3,587	—	2,182
Change in assets and liabilities				
Accounts receivable	(8,203)	(7,347)	(9,678)	(13,552)
Inventory	(1,312)	(6,563)	(2,929)	(1,284)
Prepaid expenses and other current assets	(1,094)	(6,474)	(2,052)	(5,729)
Investments and other assets	(2,296)	(4,209)	(4,236)	1,294
Accounts payable	(7,915)	(23,363)	4,533	(12,057)
Deferred revenue	67,626	(26,412)	(3,832)	(15,974)
Accrued data licensing fees	(6,746)	(9,121)	(4,867)	(2,750)
Accrued expenses & other	22,803	38,577	(4,252)	(2,353)
Interest payable	16,395	15,836	3,785	3,643
Operating lease liabilities	(7,439)	(8,761)	(2,164)	(2,339)
Net cash used in operating activities	<u>\$ (168,204)</u>	<u>\$ (214,339)</u>	<u>\$ (66,262)</u>	<u>\$ (101,378)</u>
Investing activities				
Purchases of property and equipment	\$ (18,377)	\$ (34,608)	\$ (6,226)	\$ (6,108)
Proceeds from sale of marketable equity securities	—	—	—	23,098
Business combinations, net of cash acquired (Note 3)	(39,562)	(5,705)	(2,869)	—
Net cash (used in) provided by investing activities	<u>\$ (57,939)</u>	<u>\$ (40,313)</u>	<u>\$ (9,095)</u>	<u>\$ 16,990</u>
Financing activities				
Issuance of Series G-3 Preferred Stock, net of offering costs	\$ 92,199	\$ —	\$ —	\$ —
Issuance of Series G-4 Preferred Stock, net of offering costs	—	44,885	—	—
Principal payments on finance lease liabilities	(375)	(288)	(96)	—
Purchase of treasury stock	—	(3,602)	(3,602)	—
Payment of deferred offering costs	(2,883)	(698)	(87)	(565)
Payment of deferred financing fees	(2,550)	—	—	—
Dividends paid	(5,625)	(5,625)	—	—
Proceeds from long-term debt, net of original issue discount	170,625	82,875	—	—
Payment of indemnity holdback related to acquisition	—	—	—	(813)
Net cash provided by (used in) financing activities	<u>\$ 251,391</u>	<u>\$ 117,547</u>	<u>\$ (3,785)</u>	<u>\$ (1,378)</u>
Effect of foreign exchange rates on cash	\$ 17	\$ (19)	\$ (31)	\$ (49)

[Table of Contents](#)

	December 31, 2022	December 31, 2023	March 31, 2023 (Unaudited)	March 31, 2024
Net increase (decrease) in Cash, Cash Equivalents and Restricted Cash	\$ 25,265	\$ (137,124)	\$ (79,173)	\$ (85,815)
Cash, cash equivalents and restricted cash, beginning of period	278,466	303,731	303,731	166,607
Cash, cash equivalents and restricted cash, end of period	<u>\$ 303,731</u>	<u>\$ 166,607</u>	<u>\$ 224,558</u>	<u>\$ 80,792</u>
Cash, Cash Equivalents and Restricted Cash are Comprised of:				
Cash and cash equivalents	\$ 302,938	\$ 165,767	\$ 223,756	\$ 79,942
Restricted cash and cash equivalents	793	840	802	850
Total cash, cash equivalents and restricted cash	<u>\$ 303,731</u>	<u>\$ 166,607</u>	<u>\$ 224,558</u>	<u>\$ 80,792</u>
Supplemental disclosure of cash flow information				
Cash paid during the year for interest	\$ 4,664	\$ 16,913	\$ 614	\$ 6,980
Cash paid for income taxes	<u>6</u>	<u>161</u>	<u>0</u>	<u>—</u>
Marketable equity securities received on accounts receivable	<u>—</u>	<u>\$ 22,000</u>	<u>—</u>	<u>—</u>
Supplemental disclosure of noncash investing and financing activities				
Dividends payable	\$ 5,625	\$ 12,535	\$ 2,189	\$ 2,966
Purchases of property and equipment, accrued but not paid	<u>2,408</u>	<u>6,137</u>	<u>2,340</u>	<u>1,379</u>
Deferred offering costs, accrued but not yet paid	<u>2,391</u>	<u>3,504</u>	<u>2,624</u>	<u>4,071</u>
Redemption of convertible promissory note	<u>17,142</u>	<u>27,970</u>	<u>5,060</u>	<u>6,391</u>
Non-voting common stock issued in connection with business combinations	<u>4,947</u>	<u>9,209</u>	<u>4,305</u>	<u>344</u>
Accretion of convertible preferred stock to redemption value	<u>301</u>	<u>4,338</u>	<u>—</u>	<u>—</u>
Non-voting common stock issued in connection with contingent consideration	<u>4,304</u>	<u>—</u>	<u>—</u>	<u>—</u>
Operating lease liabilities arising from obtaining right-of-use assets	<u>41,815</u>	<u>1,097</u>	<u>892</u>	<u>—</u>
Finance lease liabilities arising from obtaining right-of-use assets	<u>664</u>	<u>—</u>	<u>—</u>	<u>—</u>
Issuance of Series G-3 Preferred Stock	<u>—</u>	<u>2,738</u>	<u>2,738</u>	<u>3,809</u>
Issuance of warrant	<u>—</u>	<u>4,223</u>	<u>—</u>	<u>—</u>
Issuance of Series G-4 Preferred Stock	<u>—</u>	<u>—</u>	<u>—</u>	<u>611</u>

The accompanying notes are an integral part of these consolidated financial statements.

Tempus AI, Inc.
CONSOLIDATED STATEMENTS OF REDEEMABLE CONVERTIBLE
PREFERRED STOCK, COMMON STOCK AND STOCKHOLDERS' DEFICIT
(in thousands, except share and per share amounts)

	Redeemable Convertible Preferred Stock		Voting Common Stock		Non-voting Common Stock		Treasury Stock		Additional Paid-in Capital	Accumulated Deficit	Accumulated Other Comprehensive (Loss) Income	Total Stockholders' Deficit
	Units	Amount	Units	Amount	Units	Amount	Units	Amount				
Balance at December 31, 2021	61,078,813	\$ 898,291	58,367,961	\$ 6	4,612,450	\$ 0	—	\$ —	—	\$ (807,486)	\$ (11)	\$ (807,491)
Issuance of Series G-3 Preferred Stock, net of stock issuance costs of \$301	1,614,114	92,199	—	—	—	—	—	—	—	—	—	—
Impact of adoption of Topic 842	—	—	—	—	—	—	—	—	—	271	—	271
Accretion of convertible preferred stock to redemption value	—	301	—	—	—	—	—	—	(301)	—	—	(301)
Foreign currency translation adjustment	—	—	—	—	—	—	—	—	—	—	29	29
Dividends	—	35,352	—	—	—	—	—	—	301	(41,276)	—	(40,975)
Non-voting common stock issued in connection with contingent consideration	—	—	—	—	145,466	0	—	—	4,304	—	—	4,304
Non-voting common stock issued in connection with contingent consideration	—	—	—	—	174,499	0	—	—	4,947	—	—	4,947
Net loss	—	—	—	—	—	—	—	—	—	(289,811)	—	(289,811)
Balance at December 31, 2022	<u>62,692,927</u>	<u>\$1,026,143</u>	<u>58,367,961</u>	<u>\$ 6</u>	<u>4,932,415</u>	<u>\$ 0</u>	<u>—</u>	<u>\$ —</u>	<u>\$ 9,251</u>	<u>\$ (1,138,302)</u>	<u>\$ 18</u>	<u>\$ (1,129,027)</u>

	Redeemable Convertible Preferred Stock		Voting Common Stock		Non-voting Common Stock		Treasury Stock		Additional Paid-in Capital	Accumulated Deficit	Accumulated Other Comprehensive (Loss) Income	Total Stockholders' Deficit
	Units	Amount	Units	Amount	Units	Amount	Units	Amount				
Balance at December 31, 2022	62,692,927	\$1,026,143	58,367,961	\$ 6	4,932,415	\$ 0	—	\$ —	9,251	\$ (1,138,302)	\$ 18	\$ (1,129,027)
Issuance of Series G-3 Preferred Stock	47,781	2,738	—	—	—	—	—	—	—	—	—	—
Issuance of Series G-4 Preferred Stock, net of stock issuance costs of \$4,338	785,245	40,662	—	—	—	—	—	—	—	—	—	—
Accretion of convertible preferred stock to redemption value	—	4,338	—	—	—	—	—	—	(4,338)	—	—	(4,338)
Foreign currency translation adjustment	—	—	—	—	—	—	—	—	—	—	(13)	(13)
Dividends	—	31,662	—	—	—	—	—	—	—	(44,497)	—	(44,497)
Repurchase of Non-voting Common Stock	—	—	—	—	—	—	(145,466)	(3,602)	—	—	—	(3,602)
Common stock issued in connection with business combination	—	—	—	—	273,387	0	—	—	9,209	—	—	9,209
Issuance of warrant	—	—	—	—	—	—	—	—	4,223	—	—	4,223
Net loss	—	—	—	—	—	—	—	—	—	(214,118)	—	(214,118)
Balance at December 31, 2023	<u>63,525,953</u>	<u>\$1,105,543</u>	<u>58,367,961</u>	<u>\$ 6</u>	<u>5,205,802</u>	<u>\$ 0</u>	<u>(145,466)</u>	<u>\$ (3,602)</u>	<u>\$ 18,345</u>	<u>\$ (1,396,917)</u>	<u>\$ 5</u>	<u>\$ (1,382,163)</u>

The accompanying notes are an integral part of these consolidated financial statements.

Tempus AI, Inc.
CONSOLIDATED STATEMENTS OF REDEEMABLE CONVERTIBLE
PREFERRED STOCK, COMMON STOCK AND STOCKHOLDERS' DEFICIT
(in thousands, except share and per share amounts) (unaudited)

	Redeemable Convertible Preferred Stock		Voting Common Stock		Non-voting Common Stock		Treasury Stock		Additional Paid-in Capital	Accumulated Deficit	Accumulated Other Comprehensive (Loss) Income	Total Stockholders' Deficit
	Units	Amount	Units	Amount	Units	Amount	Units	Amount				
Balance at December 31, 2022	<u>62,692,927</u>	<u>\$ 1,026,143</u>	<u>58,367,961</u>	<u>\$ 6</u>	<u>4,932,415</u>	<u>\$ 0</u>	<u>—</u>	<u>\$ —</u>	<u>9,251</u>	<u>\$ (1,138,302)</u>	<u>\$ 18</u>	<u>\$ (1,129,027)</u>
Issuance of Series G-3 Preferred Stock	47,781	2,738	—	—	—	—	—	—	—	—	—	—
Foreign currency translation adjustment	—	—	—	—	—	—	—	—	—	—	(28)	(28)
Dividends	—	5,440	—	—	—	—	—	—	—	(10,669)	—	(10,669)
Repurchase of Non-voting Common Stock	—	—	—	—	—	—	(145,466)	(3,602)	—	—	—	(3,602)
Common stock issued in connection with business combination	—	—	—	—	130,874	0	—	—	4,305	—	—	4,305
Net loss	—	—	—	—	—	—	—	—	—	(54,377)	—	(54,377)
Balance at March 31, 2023	<u>62,740,708</u>	<u>\$ 1,034,321</u>	<u>58,367,961</u>	<u>\$ 6</u>	<u>5,063,289</u>	<u>\$ 0</u>	<u>(145,466)</u>	<u>\$ (3,602)</u>	<u>\$ 13,556</u>	<u>\$ (1,203,348)</u>	<u>\$ (10)</u>	<u>\$ (1,193,398)</u>

	Redeemable Convertible Preferred Stock		Voting Common Stock		Non-voting Common Stock		Treasury Stock		Additional Paid-in Capital	Accumulated Deficit	Accumulated Other Comprehensive (Loss) Income	Total Stockholders' Deficit
	Units	Amount	Units	Amount	Units	Amount	Units	Amount				
Balance at December 31, 2023	<u>63,525,953</u>	<u>\$ 1,105,543</u>	<u>58,367,961</u>	<u>\$ 6</u>	<u>5,205,802</u>	<u>\$ 0</u>	<u>(145,466)</u>	<u>\$ (3,602)</u>	<u>18,345</u>	<u>\$ (1,396,917)</u>	<u>\$ 5</u>	<u>\$ (1,382,163)</u>
Issuance of Series G-3 Preferred Stock	66,465	3,809	—	—	—	—	—	—	—	—	—	—
Issuance of Series G-4 Preferred Stock	10,666	611	—	—	—	—	—	—	—	—	—	—
Foreign currency translation adjustment	—	—	—	—	—	—	—	—	—	—	(56)	(56)
Dividends	—	24,839	—	—	—	—	—	—	—	(27,807)	—	(27,807)
Common stock issued in connection with business combinations	—	—	—	—	9,141	0	—	—	344	—	—	344
Net loss	—	—	—	—	—	—	—	—	—	(64,743)	—	(64,743)
Balance at March 31, 2024	<u>63,603,084</u>	<u>\$ 1,134,802</u>	<u>58,367,961</u>	<u>\$ 6</u>	<u>5,214,943</u>	<u>\$ 0</u>	<u>(145,466)</u>	<u>\$ (3,602)</u>	<u>\$ 18,689</u>	<u>\$ (1,489,467)</u>	<u>\$ (51)</u>	<u>\$ (1,474,425)</u>

The accompanying notes are an integral part of these consolidated financial statements.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. DESCRIPTION OF BUSINESS

Company Information

Tempus AI, Inc., together with the subsidiaries through which it conducts business (the “Company”), is a healthcare technology company focused on bringing artificial intelligence and machine learning to healthcare in order to improve the care of patients across multiple diseases. The Company combines the results of laboratory tests with other multimodal datasets to improve patient care by supporting all parties in the healthcare ecosystem, including: physicians, researchers, payors, and pharmaceutical companies. The Company primarily derives revenue from selling comprehensive genetic testing to physicians and large academic research institutions, licensing data to third parties, matching patients to clinical trials, and related services.

The Company, based in Chicago, Illinois, was founded by Eric P. Lefkofsky, the Company’s CEO and Executive Chairman, and evolved from a business Mr. Lefkofsky founded called Bioin. Bioin originally was established as a limited liability company. Effective September 21, 2015, Bioin converted its legal form to a corporation organized and existing under the General Corporation Law of the State of Delaware. Bioin subsequently changed its legal name to Tempus Health, Inc. in September 2015, to Tempus Labs, Inc. in October 2016 and to Tempus AI, Inc. in December 2023.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Principles of Consolidation and Basis of Presentation

The consolidated financial statements include the accounts of Tempus AI, Inc. and its wholly owned subsidiaries. All intercompany accounts and transactions have been eliminated in consolidation. The consolidated financial statements and accompanying notes were prepared in accordance with accounting principles generally accepted in the United States of America (“GAAP”) and include the assets, liabilities, revenue and expenses of all wholly owned subsidiaries. Investments in unconsolidated entities in which the Company does not have a controlling financial interest, but has the ability to exercise significant influence, are accounted for under the equity method of accounting. Investments in unconsolidated entities in which the Company is not able to exercise significant influence are accounted for under the cost method of accounting.

We have incurred significant losses and negative cash flows from operations since our inception, and as of March 31, 2024, we had an accumulated deficit of \$1.5 billion. The Company believes that its existing cash and cash equivalents and marketable equity securities at March 31, 2024, inclusive of the proceeds from the Series G-5 Financing, will be sufficient to allow the Company to fund its current operating plan through at least a period of one year from the date of issuance. To the extent the Company incurs additional losses beyond its current operating plan, it may be required to seek future capital requirements, in the form of third-party funding, or to reduce costs.

Reclassification

Certain prior year amounts have been reclassified for consistency with the current year presentation.

Emerging Growth Company

The Company is an “emerging growth company” as defined in Section 2(a) of the Securities Act of 1933, as amended, (the “Securities Act”), as modified by the Jumpstart our Business Startups Act of 2012, (the “JOBS Act”), and it may take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act, reduced disclosure obligations regarding executive compensation in its periodic reports and proxy statements, and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Further, Section 102(b)(1) of the JOBS Act exempts emerging growth companies from being required to comply with new or revised financial accounting standards until private companies (that is, those that have not had a Securities Act registration statement declared effective or do not have a class of securities registered under the Exchange Act) are required to comply with the new or revised financial accounting standards. The JOBS Act provides that a company can elect to opt out of the extended transition period and comply with the requirements that apply to non-emerging growth companies but any such election to opt out is irrevocable. The Company has elected not to opt out of such extended transition period which means that when a standard is issued or revised and it has different application dates for public or private companies, the Company, as an emerging growth company, can adopt the new or revised standard at the time private companies adopt the new or revised standard. This may make comparison of the Company's consolidated financial statements with another public company which is neither an emerging growth company nor an emerging growth company which has opted out of using the extended transition period difficult or impossible because of the potential differences in accounting standards used.

Unaudited Interim Consolidated Financial Information

The accompanying interim consolidated balance sheet as of March 31, 2024, the consolidated statements of operations and comprehensive income (loss), redeemable convertible preferred stock, common stock and stockholders' deficit, and cash flows for the three months ended March 31, 2023 and 2024, and the related footnote disclosures are unaudited. In management's opinion, the unaudited interim consolidated financial statements include all adjustments necessary to state fairly the Company's financial position as of March 31, 2024 and its results of operations and cash flows for the three months ended March 31, 2023 and 2024. The results of operations for the three months ended March 31, 2024 are not necessarily indicative of the results expected for the year ending December 31, 2024 or any other future period.

Use of Estimates

The preparation of the consolidated financial statements requires management to make estimates and assumptions that affect the reported amounts and classifications of assets and liabilities, revenue and expenses, and the related disclosures of contingent assets and liabilities in the consolidated financial statements and accompanying notes. The most significant estimates are related to revenue, accounts receivable, stock-based compensation, operating lease liabilities, and the useful lives of property, equipment and intangible assets. Actual results could differ from those estimates.

COVID-19

Revenue generated from COVID-19 testing was \$22.2 million, or 6.9% of our total revenue, for the year ended December 31, 2022. Revenue generated from COVID-19 testing was \$2.6 million, or 2.3%, of our total revenue for the three months ended March 31, 2023. Revenue generated from COVID-19 testing was \$2.7 million, or 0.5% of total revenue, for the year ended December 31, 2023 and \$0 for the three months ended March 31, 2024, as we stopped offering COVID-19 PCR diagnostic tests in the first quarter of 2023, at which time we shifted resources from COVID-19 testing to other aspects of the business. Demand for, and revenue from, our COVID-19 testing products decreased in 2022 due to the lower prevalence of COVID-19 from successful containment efforts and increased vaccination rates of a substantial majority of Americans, reduced testing needs of many of our clients, and the entrance of other testing providers in the market.

Cash, Cash Equivalents and Restricted Cash

The Company considers all highly-liquid investments with an original maturity of three months or less from the date of purchase to be cash equivalents. Restricted cash primarily represents amounts that the Company is

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

unable to access for operational purposes pursuant to a letter of credit with a financial institution in connection with an equipment lease. The Company had \$0.8 million, \$0.8 million, and \$0.9 million of restricted cash as of December 31, 2022 and 2023, and March 31, 2024 respectively.

Accounts Receivable and Allowances

Accounts receivable primarily represents the net cash due from the Company's customers, including payors, pharmaceutical companies, and research institutions. Payments of accounts receivable are allocated to the specific invoices identified on the remittance advice. Accounts receivables are reported at their gross outstanding balance reduced by an allowance for doubtful accounts and contractual allowance. The allowance for doubtful accounts is based on the age of an invoice, historical payment trends, as well as forward looking data and current economic trends. The Company had an allowance for doubtful accounts of \$2.9 million, \$1.1 million, and \$1.0 million as of December 31, 2022 and 2023 and March 31, 2024, respectively.

Concentration of Credit Risk

Financial instruments that potentially expose the Company to concentrations of credit risk are primarily cash, restricted cash and accounts receivable. The Company maintains cash balances that may exceed the insured limits by the Federal Deposit Insurance Corporation. The Company has not experienced any losses on its deposits of cash.

The Company has credit risk regarding trade accounts receivable as the Company generally does not require collateral, and a limited number of customers have accounted for a large part of the Company's revenue and accounts receivable to date. Allowances are maintained for potential credit losses.

Revenue from one customer accounted for 8.3%, 8.3%, 6.3%, and 6.6% of the Company's revenues for the years ended December 31, 2022 and 2023, and the three months ended March 31, 2023 and 2024, respectively. The amount due from this customer was approximately \$6.9 million or 7.8%, \$11.2 million or 11.9%, \$12.5 million or 12.8%, and \$13.2 million or 12.3% of accounts receivable as of December 31, 2022 and 2023, and March 31, 2023 and 2024, respectively. One additional customer accounted for 5.1%, 6.0%, and 5.7% of the Company's revenues for the year ended December 31, 2023 and the three months ended March 31, 2023 and 2024, respectively, but did not represent a significant portion of total revenues for the year ended December 31, 2022. The amount due from this additional customer was not material as of December 31, 2022 or 2023 or March 31, 2023 or 2024.

Two additional customers did not represent a significant portion of total revenues for the years ended December 31, 2022 and 2023 or for the three months ended March 31, 2023 and 2024, but accounted for \$6.3 million or 7.1%, and \$6.1 million or 6.8%, respectively, of accounts receivable as of December 31, 2022. These two customers represented less than 5% of accounts receivable as of December 31, 2023, and March 31, 2023 and 2024. An additional customer did not represent a significant portion of total revenues for the years ended December 31, 2022 and 2023, or for the three months ended March 31, 2023 and 2024, but accounted for \$10.1 million or 11.4%, and \$4.9 million or 5.0%, respectively, of accounts receivable as of December 31, 2022 and March 31, 2023. This additional customer represented less than 5% of accounts receivable as of December 31, 2023 and March 31, 2024.

Inventories

Inventories, consisting of supplies and consumables used in the lab, are accounted for using the first-in, first-out method of accounting and are valued at the lower of cost or net realizable value. The Company periodically reviews

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

inventory for excess or obsolescence and writes-down obsolete or otherwise un-usable inventory to its estimated net realizable value. Amounts written-down due to obsolete inventory are charged to cost of revenues. For the year ended December 31, 2022, the Company increased its inventory reserve by \$1.9 million related to the expiration of COVID-19 testing kits. As of December 31, 2022, the Company had approximately \$21.1 million of inventory and \$1.2 million of inventory in process in the labs. As of December 31, 2023, the Company had approximately \$27.3 million of inventory and \$1.5 million of inventory in process in the labs. As of March 31, 2024, the Company had approximately \$28.4 million of inventory and \$1.7 million of inventory in process in the labs.

The Company relies on a sole supplier for certain laboratory materials and equipment. Purchases from this supplier accounted for approximately 35%, 33%, 37%, and 41%, of total vendor payments for the year ended December 31, 2022 and 2023, and for the three months ended March 31, 2023 and 2024, respectively. Amounts due to this vendor approximated \$8.2 million, \$11.8 million, and \$8.6 million at December 31, 2022 and 2023, and March 31, 2024, respectively.

Prepaid expenses and Other Current Assets

Prepaid assets are recorded when paid and consistent primarily of prepayments for insurance, medical, software subscriptions, and cloud storage service. Prepaid expenses are amortized into expense over the related service period. Other current assets included in this line are primarily related to the short-term portion of the Company's warrant asset and other receivables. Prepaid expenses and other current assets totaled \$19.5 million, \$17.3 million, and \$23.0 million at December 31, 2022 and 2023, and March 31, 2024, respectively.

Marketable Equity Securities

The Company has investments in marketable equity securities received as payment of accounts receivable. The Company's investment in marketable equity securities does not give the Company the ability to control or exercise significant influence over the investee. Marketable equity securities are recorded at fair value. The Company's marketable equity securities totaled \$31.8 million and \$15.0 million as of December 31, 2023 and March 31, 2024, respectively, all of which were shares of Recursion Pharmaceuticals, Inc. Class A common stock. During the three months ended March 31, 2024, the Company sold 1,725,902 shares of Recursion Class A common stock at a weighted average price of \$13.38 for \$23.1 million. Changes in fair value are recorded in earnings within other (expense) income, net on the consolidated statements of operations and comprehensive loss.

The following summarizes the portion of unrealized gains recorded during the three months ended March 31, 2024 that relate to marketable equity securities held as of March 31, 2024 (in thousands):

	Three Months Ended March 31, 2024
Net gain during the period on marketable equity securities	\$ 6,246
Less: Net gain recognized during the period on marketable equity securities sold during the period	(6,081)
Unrealized gain recognized during the period on marketable equity securities still held at the reporting date	<u>\$ 165</u>

Long-Lived Assets

Property and Equipment and Intangibles

Property and equipment are stated at cost and assets under finance leases are stated at the lesser of the present value of minimum lease payments or their fair market value. Depreciation is recognized using the straight-line method over the estimated useful lives of the related assets. Generally, the useful lives are three

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

years for equipment and seven years for furniture and fixtures. Leasehold improvements are amortized on a straight-line basis over the lesser of the term of the lease or the estimated useful life of the asset. Intangibles, other than indefinite-lived intangibles, are amortized using the straight-line method, which approximates the pattern of usage, over their economic life, generally five to seven years. Assets to be disposed of, if any, are separately presented in the consolidated balance sheet and reported at the lower of the carrying amount or fair value, less costs to sell, and are no longer depreciated. See Note 4, “Balance Sheet Components” for additional information about these assets.

Impairment of Long-Lived Assets

The Company evaluates long-lived assets, including property and equipment, and intangible assets for impairment whenever events or changes in business circumstances indicate that the carrying amount of the asset may not be fully recoverable. Recoverability is measured by a comparison of the carrying amount to the net undiscounted cash flows expected to be generated by the asset group. If such assets are impaired, the impairment to be recognized is measured by the amount by which the carrying amount of a long-lived asset exceeds its fair value. Any loss would be recognized in loss from operations in the period in which the determination is made. The Company recognized an impairment charge related to long-lived assets during the three months ended March 31, 2023, and the year ended December 31, 2023. See Note 5, “Goodwill and Intangibles” for additional information. There were no impairment charges recognized related to long-lived assets during the year ended December 31, 2022, or during the three months ended March 31, 2024.

Goodwill

Goodwill consists of the excess purchase price over the fair value of net assets acquired in business combinations. The Company conducts a test for the impairment of goodwill on at least an annual basis as of October 1st or sooner if indicators of impairment arise. The Company first assesses qualitative factors to determine whether it is more likely than not that goodwill is impaired. As part of the qualitative assessment, the Company evaluates factors including macroeconomic conditions, industry and market considerations, cost factors and overall financial performance of its single reporting unit.

If the Company concludes that it is more-likely-than-not that its single reporting unit is impaired or if the Company elects not to perform the optional qualitative assessment, a quantitative assessment is performed. For the quantitative assessment, the fair value of the Company’s reporting unit is compared with the carrying amount of net assets, including goodwill, related to the reporting unit. The Company recognizes an impairment charge for the amount, if any, by which the carrying amount of a reporting unit exceeds the fair value of the reporting unit. The Company recorded no impairment loss during the years ended December 31, 2022 and 2023 or the three months ended March 31, 2023 and 2024.

Term Loan

The Company’s outstanding term loan (see Note 11) is accounted for in accordance with ASC 470. The original issue discount and deferred financing fees are amortized into interest expense within the consolidated statements of operations using the straight-line method over the term of the underlying debt, and unamortized amounts are presented net of the principal balance within long-term debt in the consolidated balance sheets.

Convertible Note

The Company’s outstanding promissory note (see Note 11) is accounted for in accordance with ASC 470. The Company determined the embedded conversion options, redemption features, and acceleration of repayment upon default are not required to be separately accounted for as derivatives under ASC 815 because they were

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

either determined to be clearly and closely related to the host instrument or the Company has concluded that no value would be associated with the related feature based on the circumstances associated with the note's issuance.

Leases

The Company determines whether an arrangement is or contains a lease at inception, and all significant lease arrangements are recognized at lease commencement. The majority of the Company's leases are operating leases and are included in operating lease right-of-use assets, operating lease liabilities, and operating lease liabilities, less current portion on the consolidated balance sheets. Finance leases are included in finance lease right-of-use, or ROU, assets, finance lease liabilities, and finance lease liabilities, less current portion on the consolidated balance sheets.

ROU assets represent the Company's right to use an underlying asset for the lease term, and lease liabilities represent the Company's obligation to make lease payments arising from the lease. Operating and finance lease ROU assets and operating and finance lease liabilities are recognized at commencement based on the present value of fixed payments not yet paid over the remaining lease term discounted using the Company's incremental borrowing rate. ROU assets also include any lease payments made at or before the lease commencement date, less lease incentives received and deferred rent. As the Company's leases do not provide an implicit rate, the incremental borrowing rate used is estimated based on what the Company would have to pay on a collateralized basis over a similar term as the lease.

The Company has lease arrangements with lease and non-lease components. The Company elected the practical expedient not to separate non-lease components from lease components for the Company's facility leases. Variable lease payments are presented as rent expense in the period in which they are incurred and consist primarily of our proportionate share of operating expenses, utilities, property taxes, insurance, common area maintenance and other facility-related expenses. The Company also elected to apply the short-term lease measurement and recognition exemption in which ROU assets and lease liabilities are not recognized for leases with terms of twelve months or less, and lease expense is recognized on a straight-line basis over the term of the short-term lease. The Company records rent expense in its consolidated statements of operations and comprehensive loss on a straight-line basis over the term of the lease and records variable lease payments as incurred. The Company's lease terms may include options to extend or terminate the lease, which the Company includes in calculating the operating lease liabilities if it is reasonably certain that the Company will exercise the option. As of March 31, 2024, the Company's lease liabilities did not include any options to extend or terminate any of its leases.

Revenue Recognition

The Company derives revenue from selling lab services ("Genomics") to physicians, academic research institutions, and other parties. The Company also derives revenue from the commercialization of data generated in the lab ("Data and services") through the licensing of de-identified datasets to third parties and by providing clinical trial support, such as matching patients to clinical trials enrolled in its clinical trial network, and related services. The majority of the Company's revenue is generated in North America.

The Company accounts for revenue in accordance with ASC Topic 606, Revenue From Contracts With Customers. The Company commences revenue recognition when control of these products is transferred to customers in an amount that reflects the consideration the Company expects to be entitled to in exchange for such products. This principle is achieved by applying the five-step approach:

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(i) we account for a contract when it has approval and commitment from both parties, (ii) the rights of the parties are identified, (iii) payment terms are identified, (iv) the contract has commercial substance and (v) collectability of consideration is probable. Revenues and any contract assets are not recognized until such time that the required conditions are met.

Disaggregation of Revenue

The Company provides disaggregation of revenue based on Genomics and Data and services on the consolidated statements of operations and comprehensive loss, as it believes these best depict how the nature, amount, timing and uncertainty of revenue and cash flows are affected by economic factors.

Genomics

The Company generally recognizes revenue for its Genomics product offering when it has met its performance obligation relating to an order. The Company has determined its sole performance obligation to be the delivery of the testing results to the ordering party. The Company receives payments from Medicare, Medicaid, and commercial insurance for clinical orders and directly from research institutions, pharmaceutical companies or other third parties for direct bill orders. The Company recognized Genomics revenue of \$198.0 million and \$363.0 million for the years ended December 31, 2022 and 2023, respectively. The Company recognized Genomics revenue of \$82.1 million and \$102.6 million for the three months ended March 31, 2023 and 2024, respectively.

For clinical orders from Medicare, Medicaid, and commercial insurance, the Company determines transaction price by reducing the standard charge by the estimated effects of any variable consideration, such as contractual allowance and implicit price concessions. The Company estimates the contractual allowances and implicit price concessions based on historical collections in relation to established rates, as well as known current or anticipated reimbursement trends not reflected in the historical data. Estimates are inclusive of the consideration to which we will be entitled at an amount for which it is probable that a reversal of cumulative consideration will not occur. The Company monitors the estimated amount to be collected at each reporting period based on actual cash collections in order to assess whether a revision to the estimate is required. During the year ended December 31, 2023, the Company recognized \$12.2 million from cash collections in excess of revenue recognized in prior years, primarily as a result of achieving a higher success rate on appeals than estimated. Payment is typically due after the claim has been processed by the payor, generally 30-120 days from date of service. While management believes that the estimates are accurate, actual results could differ and the potential impact on the financial statements could be significant. The Company recognized revenue for clinical orders of \$157.2 million and \$328.4 million for the years ended December 31, 2022 and 2023, respectively. The Company recognized revenue for clinical orders of \$72.5 million and \$93.4 million for the three months ended March 31, 2023 and 2024, respectively.

For direct bill orders from research institutions, pharmaceutical companies, or other third parties, the Company determines the transaction prices based on established contractual rates with the customer, net of any applicable discounts. Payment is typically due between 30 and 60 days following the date of invoice. The Company recognized Genomics revenue for direct bill orders of \$40.8 million and \$34.6 million for the years ended December 31, 2022 and 2023, respectively. The Company recognized Genomics revenue for direct bill orders of \$9.6 million and \$9.2 million for the three months ended March 31, 2023 and 2024, respectively.

Data and services

Data and services revenue primarily represents data licensing and clinical trial services that the Company provides to pharmaceutical and biotechnology companies. The Company's arrangements with these customers

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

often have terms that span multiple years. However, these contracts generally also include customer opt-in or early termination clauses after twelve months without contractual penalty. The customer's option to renew is generally not viewed as a material right, and as a result, the Company's contract period for these agreements is generally considered less than one year. The Company determines the transaction price based on established contractual rates with the customer, net of any applicable discounts. The Company recognizes revenue for its Data and services product offering when it has met its performance obligation under the terms of the agreement with the customer. A description of the Company's two product offerings are as follows:

Insights

The Company's Insights product consists primarily of licensing and analysis of de-identified records. Each Insights contract is unique and may include multiple promises, including the delivery of licensed de-identified records, including refreshes, analytical services or access to the Company's enhanced Lens application. The Company evaluates each contract to determine which performance obligations are capable of being distinct and separately identifiable from other promises in the contract and, therefore, represent distinct performance obligations. The actual timing of data deliveries can be based on a variety of factors, including, but not limited to, the customer's requirement and/or our technological, operational, and human capital capacity; in addition, management assesses relevant contractual terms in contracts with customers and applies significant judgment in identifying and accounting for all terms and conditions in certain contracts. The transaction price is allocated to the distinct performance obligations and revenue is recognized once the performance obligation has been fulfilled. The standalone selling prices are based on the Company's normal pricing practices when sold separately with consideration of market conditions and other factors, including customer demographics.

The Company has determined that the delivery of de-identified records and, when applicable, analytical services, and access to its enhanced Lens application are separate and distinct performance obligations. A description of the primary Insights contract types are as follows:

- *Data licensing on a one-time or limited duration basis* – Customer licenses a specific dataset of records, and the Company accounts for individual licensed data records as a right to use license. Revenue is typically recognized upon delivery of the data to the customer, as the Company's obligations for an individual record is complete once the data has been delivered, and the customer is able to benefit from the provision of data as it is received.
- *Multi-year data subscriptions* – Customer licenses an interchangeable maximum number of de-identified records, and the Company accounts for the service as a right to access license and one performance obligation. Revenue is recognized as access to the dataset is provided, ratably over-time, with the measure of progress time-based.
- *Analytical services and other services* – Services typically involve data analysis and research performed on behalf of the customer by the Company. The resulting delivery of data, or a report addressing a series of questions and analytical results, is considered a single performance obligation. Revenue is generally recognized upon the delivery of these services, as defined by the contract.
- *Enhanced Lens application subscription services* – Customer licenses access to the Company's enhanced Lens application under a software-as-a-service model. Customers do not have the right to take possession of the Lens platform application, and the online software product is fully functional once a customer has access. Lens subscription revenues are recognized ratably over the contract terms beginning on the date the Company's service is made available to the customer. For the periods presented, revenue from Lens subscription services are not material.

The Company recognized revenue from Insights products of \$88.4 million and \$117.6 million for the years ended December 31, 2022 and 2023, respectively. The Company recognized revenue from Insights products of \$22.8 million and \$31.3 million for the three months ended March 31, 2023 and 2024, respectively.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Trials

The Company's Trials product includes TIME clinical trial matching services, and other clinical trial services.

TIME consists primarily of matching patients to clinical trial sponsors of a potential match. To the extent the contract requires, the Company may also assist in opening the clinical trial site and enrolling the patient in the clinical trial. The Company has determined that, depending on the type of agreement, the performance obligation of these contracts is the delivery of a notification or the enrollment of a patient in a clinical trial. As such, revenue is recognized upon one of the following: delivery of a notification to the physician alerting them to a clinical trial match, or once a patient is enrolled in a trial. Concurrently, the customer, which is the clinical trial sponsor, also receives notification from the Company to establish the performance obligations delivered or fulfilled for the billing period.

In addition to TIME, the Company provides other clinical trial services conducting or supporting studies. In January 2022, the Company expanded these services through acquisition of Highline Consulting, LLC (now Tempus Compass), a contract research organization, or CRO, which manages and executes early and late-stage clinical trials, primarily in oncology. Contracts for clinical trial services can take the form of fee-for-service or fixed-price contracts. Fee-for-service contracts are typically priced based on time and materials, and revenue is recognized based on hours and materials used as the services are provided. Fixed-price contracts generally represent a single performance obligation and are recognized over-time using a cost-based input method. Progress on the performance obligation is measured by the proportion of actual costs incurred to the total costs expected to complete the contract. This cost-based method of revenue recognition requires the Company to make estimates of costs to complete its projects on an ongoing basis. Contract costs principally include direct labor and reimbursable out-of-pocket costs.

The Company recognized revenue from Trials products of \$31.2 million and \$45.6 million for the years ended December 31, 2022 and 2023, respectively. The Company recognized revenue from Trials products of \$10.3 million and \$11.3 million for the three months ended March 31, 2023 and 2024, respectively.

For Insights and Trials arrangements, pricing is fixed and the Company may be compensated through a combination of an upfront payment and performance-based, non-refundable payments due upon completion of the stated performance obligation(s). Payment is generally due 60 to 90 days after the date of service. The Company has no significant obligations for refunds, warranties, or similar obligations for Data and services product offerings. The Company has elected the practical expedient, which allows the Company to not disclose remaining performance obligations for contracts with original terms of twelve months or less. Cancelable contracted revenue is not considered a remaining performance obligation. The Company recognized Data and other revenue from pharmaceutical companies, non-for-profits, and researchers of \$122.7 million and \$168.8 million for the years ended December 31, 2022 and 2023, respectively. The Company recognized Data and other revenue from pharmaceutical companies, non-for-profits, and researchers of \$33.6 million and \$43.3 million for the three months ended March 31, 2023 and 2024, respectively.

Multi-year contract performance obligations

The Company has limited multi-year contracts that do not contain early termination or customer opt-in clauses. These contracts contained defined, noncancelable performance obligations that will be fulfilled in future years. The Company's remaining performance obligations related to multi-year contracts was \$197.7 million as of December 31, 2023, of which the Company expects to recognize approximately 47% as revenue over the next year, and the remaining 34%, and 19%, of its remaining performance obligations as revenue in years two and three, and respectively. The Company's remaining performance obligations related to multi-year contracts was \$177.4 million as of March 31, 2024, of which the Company expects to recognize approximately 51% as revenue

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

over the next year, and the remaining 34%, and 15%, of its remaining performance obligations as revenue in years two and three, respectively.

In May 2024, the Company amended its agreement with GlaxoSmithKline (“GSK”) which increased the length of the total commitment period, but did not change the total commitment or the timing of the remaining performance obligations disclosed above.

Contract Assets

Timing of revenue recognition may differ from the timing of invoicing to customers. Certain performance obligations may require payment before delivery of the service to the customer. The Company recognizes contract assets when we have an unconditional right to payment, and when revenues earned on a contract exceeds the billings. Contract assets are presented under accounts receivable, net. Accounts receivable as of December 31, 2022 and 2023 and March 31, 2024, included contract assets of \$7.6 million, \$2.4 million, and \$3.1 million, respectively.

During the fourth quarter of 2021, and in conjunction with the signing of a November 2021 Master Services Agreement (“the MSA”) with customer AstraZeneca AB (“AstraZeneca”), the Company recognized a contract asset for consideration payable concurrent with the issuance of the common stock warrant based on applicable authoritative guidance in Financial Accounting Standards Board (“FASB”) ASC 606 *Revenue from Contracts with Customers*. The contract asset was initially measured equal to the initial fair value of the warrant liability based on the authoritative guidance under FASB ASC 718 *Compensation—Stock Compensation*. As revenue is recognized over the period of the contractual commitment of the MSA, the associated contract asset amortization is recorded as reduction of revenue. At each reporting period, the short-term portion of the warrant asset is adjusted based on the financial commitment and reclassified to Prepaid expenses and other current assets.

The following summarized the warrant contract asset presentation as of December 31, 2022 and 2023 and March 31, 2024 (in thousands):

	December 31, 2022	December 31, 2023	March 31, 2024
Prepaid expenses and other current assets	\$ 6,615	\$ 4,843	\$ 4,843
Warrant contract asset, less current portion	24,948	21,499	20,288
Total warrant contract asset	<u>\$ 31,563</u>	<u>\$ 26,342</u>	<u>\$ 25,131</u>

In November 2023, the Company entered into a Commercialization and Reference Laboratory Agreement with Personalis, Inc. (“Personalis”). The Company will pay up to \$12.0 million to Personalis over three years as certain milestones are met, \$6.0 million of which has been paid as of March 31, 2024. These payments will be treated as contract assets and amortized into revenue over the life of the contract. Contract asset balances will be offset by deferred revenue generated from issuance of the Personalis warrant asset. As of December 31, 2023 and March 31, 2024, there are \$0.1 million of net contract assets related to this agreement recorded in Prepaid expenses and other current assets.

Deferred Revenue

Deferred revenue consists of billings or cash received for services in advance of revenue recognition and is recognized as revenue when all the Company’s revenue recognition criteria are met. The deferred revenue balance is influenced primarily by upfront contractual payments from our Data and Services product offerings and timing of delivery of our de-identified licensed data and clinical test results. The portion of deferred revenue that is anticipated to be recognized as revenue during the succeeding twelve-month period is recorded as deferred

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

revenue, current and any remaining portion is recorded as deferred revenue, non-current. The Company recognized \$13.8 million and \$43.5 million during the years ended December 31, 2022 and 2023, respectively, that was included in the corresponding deferred revenue balance at the beginning of the periods. For the three months ended March 31, 2023 and 2024, the Company recognized revenue of \$10.7 million and \$11.1 million, respectively, that was included in the corresponding deferred revenue balance at the beginning of the periods.

Cost of Revenues, Genomics

Cost of revenues for Genomics consists of personnel lab expenses, including salaries, bonuses, employee benefits, amortization of intangible assets, cost of laboratory supplies and consumables, laboratory rent expense, third-party administration fees associated with COVID-19 testing, depreciation of laboratory equipment, shipping costs and certain allocated overhead expenses. Costs associated with performing the Company's tests are recorded as the tests are processed at the time of report delivery.

Cost of Revenues, Data and services

Cost of revenues for Data and services includes data acquisition and royalty fees, and personnel costs related to our delivery of our data services and platform, cloud costs, and certain allocated overhead expenses. Costs associated with performing data services are recorded as incurred.

Technology research and development

Technology research and development expense primarily includes personnel costs incurred related to the research and development of the Company's technology platform and applications and the research and development of new products which the Company hopes to bring to the market. Technology research and development costs are expensed as incurred.

Research and Development

Research and development expenses include costs incurred to develop new assays and products, and include salaries and benefits of the Company's scientific and laboratory research and development teams, amortization of intangible assets, inventory costs, overhead costs, validation costs, contract services and other related costs. Research and development costs are expensed as incurred.

401(k) Plan

The Company has a 401(k) tax deferred savings plan under which eligible employees may elect to have a portion of their salary deferred and contributed to the plan. Employer matching contributions are determined by the Company and are discretionary. During the years ended December 31, 2022 and 2023 and the three months ended March 31, 2023 and 2024, the Company did not match any employee contributions.

Income Taxes

Income taxes are provided for the tax effects of transactions reported in the consolidated financial statements and consist of taxes currently due plus deferred taxes. Deferred taxes are recognized based on differences between the basis of assets and liabilities for financial reporting and income tax purposes and are measured using enacted rates. The differences relate primarily to timing of deductibility of certain expenses and the estimated future effects of net operating loss carryforwards. Deferred tax assets and liabilities represent the future tax consequences of those differences, which will either be taxable or deductible when the assets and liabilities are recovered or settled. Deferred tax assets and liabilities are adjusted for the effects of changes in tax laws and rates on the date of enactment.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Companies are required to assess whether a valuation allowance should be recorded against their deferred tax assets (“DTAs”) based on the consideration of all available evidence, using a “more likely than not” realization standard. The four sources of taxable income that must be considered in determining whether DTAs will be realized are, (1) future reversals of existing taxable temporary differences (i.e., offset of gross deferred tax assets against gross deferred tax liabilities); (2) taxable income in prior carryback years, if carryback is permitted under the tax law; (3) tax planning strategies and (4) future taxable income exclusive of reversing temporary differences and carry forwards.

In assessing whether a valuation allowance is required, significant weight is given to evidence that can be objectively verified. The Company has evaluated its DTAs in each reporting period, including an assessment of its cumulative income or loss, to determine if a valuation allowance was required. After a review of the four sources of taxable income described above, the Company established a valuation allowance against the Company’s net deferred tax assets due to uncertainty surrounding the Company’s ability to generate future taxable income to realize these assets.

As of December 31, 2023, the Company had tax effected federal and state net operating loss (“NOL”) carry forwards of approximately \$161.7 million and \$33.7 million, respectively, which may be available to offset future taxable income. The NOLs will begin to expire in 2037.

The Company evaluates tax positions under an approach for recognition and measurement of uncertain tax positions. The Company recognizes tax liabilities when the Company believes that certain positions may not be fully sustained upon review by tax authorities. Benefits from tax positions are measured at the largest amount of benefit that is more likely than not of being realized upon settlement. To the extent that the final tax outcome of these matters is different than the amounts recorded, such differences impact income tax expense in the period in which such determination is made. Interest and penalties, if any, related to accrue liabilities for potential tax assessments are included in income tax expense.

The Company has concluded that as of December 31, 2022 and 2023 and March 31, 2024, there are no uncertain positions taken or expected to be taken that would require recognition of a liability in the financial statements.

The Company is subject to routine audits by taxing jurisdictions. As of December 31, 2023 and March 31, 2024, the Company was not under audit in any jurisdiction.

Net Loss Per Share Attributable to Common Stockholders

Basic and diluted net loss per share attributable to common stockholders is presented in conformity with the two-class method required for participating securities. The Company considers all series of its redeemable convertible preferred stock to be participating securities. Under the two-class method, the net loss attributable to common stockholders is not allocated to the redeemable convertible preferred stock as the holders of its redeemable convertible preferred stock do not have a contractual obligation to share in the Company’s losses. Net income is attributed to common stockholders and participating securities based on their participation rights. Basic net loss per share attributable to common stockholders is computed by dividing the net loss attributable to common stockholders by the weighted-average number of shares of common stock outstanding during the period. Diluted earnings per share attributable to common stockholders adjusts basic earnings per share for the potentially dilutive impact of stock options and redeemable convertible preferred stock. As the Company has reported losses for all periods presented, all potentially dilutive securities are antidilutive and accordingly, basic net loss per share equals diluted net loss per share.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Deferred Offering Costs

Deferred offering costs consist primarily of accounting, legal, and other fees related to the Company's proposed initial public offering ("IPO"). The deferred offering costs will be recorded against IPO proceeds upon the consummation of the IPO. If the IPO is abandoned, deferred offering costs will be expensed in the period the IPO is abandoned. The Company had \$5.3 million, \$7.1 million, and \$8.2 million of deferred offering costs as of December 31, 2022 and 2023 and March 31, 2024, respectively.

Stock-Based Compensation

Compensation expense relating to share-based payments is recognized in operations using a fair value measurement method. Under the fair value method, the estimated fair value of awards is charged to operations on a straight-line basis over the requisite service period, which is generally the vesting period. See Note 10 for further information on stock-based compensation.

Fair Value Measurements

Fair value is defined under GAAP as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value is a market-based measurement that is determined based on assumptions that market participants would use in pricing an asset or a liability.

To increase the comparability of fair value measures, the following hierarchy prioritizes the inputs in valuation methodologies used to measure fair value:

Level 1—Measurements that reflect quoted prices (unadjusted) for identical assets or liabilities in active markets.

Level 2—Measurements that include other inputs that are directly or indirectly observable in the marketplace.

Level 3—Measurements derived from valuation techniques in which one or more significant inputs or significant value drivers are unobservable.

To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for instruments categorized in Level 3. A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Fair value measurements are discussed further in Note 14.

It is the Company's policy, in general, to measure nonfinancial assets and liabilities at fair value on a nonrecurring basis. These items are not measured at fair value on an ongoing basis but are subject to fair value adjustments in certain circumstances (such as evidence of impairment) which, if material, are disclosed in the accompanying notes to these consolidated financial statements.

Warrant Liability

The Company issued a warrant to its customer AstraZeneca in conjunction with the signing of a November 2021 MSA. The warrant to purchase up to \$100 million in shares of the Company's Class A common stock is a freestanding financial instrument classified as noncurrent liability on the Company's consolidated balance sheets.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Warrants are accounted for as liability-classified instruments based on an assessment of the warrant's specific terms and applicable authoritative guidance in FASB ASC 480, *Distinguishing Liabilities from Equity* ("ASC 480"). The fair value of the warrant liability is measured each reporting period and any change in fair value of the warrant liability is recorded in Other (expense) income, net within the consolidated statements of operations.

Warrant Asset

As consideration for the Company's obligations to Personalis under a Commercialization and Reference Laboratory Agreement signed in November 2023, Personalis issued certain warrants to the Company to purchase up to an aggregate of 9,218,800 shares of Personalis' common stock, up to 4,609,400 shares of which are exercisable for cash at any time prior to December 31, 2024 at an exercise price of \$1.50 per share, and up to 4,609,400 shares of which are exercisable for cash at any time prior to December 31, 2025 at an exercise price of \$2.50 per share. The fair value of the warrant asset is measured each reporting period, and any change in fair value is recorded in Other (expense) income, net within the consolidated statements of operations.

Segment Information

The Company operates as one operating segment. The Company's chief operating decision maker ("CODM") is its chief executive officer, who reviews financial information for purposes of making operating decisions, assessing financial performance and allocating resources. The Company's CODM evaluates financial information on a consolidated basis.

Classification and Accretion of Convertible Preferred Stock

The Company's Series A, B, B-1, B-2, C, D, E, F, G, G-2, G-3, and G-4 convertible preferred stock are classified outside of stockholders' equity (deficit) because the holders of such shares have liquidation rights in the event of a deemed liquidation that, in certain situations, is not solely within the control of the Company.

Foreign Currency

Assets and liabilities of the Company's foreign subsidiaries are translated into U.S. dollars (USD) using period-end exchange rates while revenues and expenses are translated at the average exchange rate for the period presented. Gains or losses from balance sheet translation are the only component of accumulated other comprehensive loss in the consolidated balance sheet.

Recently Adopted Accounting Standards

The FASB issued ASU 2016-02, Leases, (Topic 842) (ASU 2016-02), in February 2016. ASU 2016-02 requires lessees to recognize, at commencement date, a lease liability representing the lessee's obligation to make payments arising from the lease and a right-of-use asset representing the lessee's right to use or control the use of a specific asset for the lease term. Under the new guidance, lessor accounting is largely unchanged. The Company adopted Topic 842 under the private company transition guidance as of January 1, 2022 using a modified retrospective approach. The Company elected a practical expedient which does not require the Company to reassess the lease classification for any expired or existing leases. Upon adoption, the Company recorded an operating lease right-of-use asset of \$27.0 million and a corresponding operating lease liability of \$41.8 million. The adoption resulted in a decrease to deferred rent of \$14.8 million. The Company's accounting for finance leases (formerly referred to as capital leases prior to the adoption of Topic 842) remains substantially unchanged. The impact on opening retained earnings was not material.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

In October 2021, the FASB issued ASU No. 2021-08, Business Combinations (Topic 805): Accounting for Contract Assets and Contract Liabilities from Contracts with Customers, which clarifies that an acquirer of a business should recognize and measure contract assets and contract liabilities in a business combination accordance with Topic 606 as if it had originated the contracts. The amendments should be applied prospectively to business combinations occurring on or after the effective date of the amendments, with early adoption permitted. The Company adopted the guidance as of January 1, 2022. The adoption did not have a material impact on the Company's financial statements.

In December 2019, the FASB issued ASU No. 2019-12, Simplifying the Accounting for Income Taxes ("ASU No. 2019-12"), which simplifies the accounting for income taxes by eliminating certain exceptions to the guidance in ASC 740 related to the approach for intraperiod tax allocation, the methodology for calculating income taxes in an interim period and the recognition of deferred tax liabilities for outside basis differences. The new guidance also simplifies aspects of the accounting for franchise taxes and enacted changes in tax laws or rates and clarifies the accounting for transactions that result in a step-up in the tax basis of goodwill. It clarifies that single-member limited liability companies and similar disregarded entities that are not subject to income tax are not required to recognize an allocation of consolidated income tax expense in their separate financial statements, but they could elect to do so. The Company adopted the guidance as of January 1, 2022. The adoption did not have a material impact on the Company's financial statements.

In June 2016, the FASB issued ASU No. 2016-13, Financial Instruments-Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments ("ASU No. 2016-13"). ASU No. 2016-13 requires the measurement and recognition of expected credit losses for financial assets that are held at amortized cost, including trade receivables. ASU No. 2016-13 replaces the previous incurred loss impairment model with an expected loss model which requires the use of forward-looking information to calculate credit loss estimates. The Company adopted the guidance as of January 1, 2023. The adoption of the standard did not have a material impact the Company's financial statements. As part of our adoption of Topic 326, we assess our accounts receivables for expected credit losses at each reporting period by disaggregating by customers with similar characteristics, such as customer type and industry. The Company reviews for expected credit losses based on the age of an invoice, historical payment trends, as well as forward looking data and current economic trends. If a credit loss is determined, we record a reduction to our accounts receivable balance with a corresponding selling, general, and administrative expense.

Recently Issued Accounting Pronouncements Not Yet Adopted

In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which requires public entities, on an annual basis, to provide disclosure of specific categories in the rate reconciliation, as well as disclosure of income taxes paid disaggregated by jurisdiction. ASU 2023-09 is effective for fiscal years beginning after December 15, 2024, with early adoption permitted. The Company is currently evaluating the effect that this guidance will have on the consolidated financial statements and related disclosures.

3. BUSINESS COMBINATIONS

SEngine

On October 3, 2023, the Company acquired all of the issued and outstanding interests of SEngine Precision Medicine LLC ("SEngine"), a Delaware limited liability company. The acquisition gives the Company access to SEngine's meaningful organoid repository, advanced bioinformatics capabilities, and PARIS test platform. Combining these advancements with the Company's existing business will allow the Company to accelerate our shared missions of getting the right patient on the right drug at the right time, while also advancing innovation in drug development.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The acquisition resulted in goodwill of \$9.6 million. The aggregate acquisition date fair value of consideration for the SEngine acquisition totaled \$9.9 million. Consideration was made up of \$2.8 million of cash and \$6.3 million of non-voting common stock. The transaction also includes contingent consideration of up to 35,000 additional shares of non-voting common stock, to be determined based on the per share price of the Company's non-voting common stock in a liquidity event completed prior to December 31, 2027. The contingent consideration has an acquisition fair value date of \$0.8 million, which the Company recognized within Other current liabilities. The contingent consideration is classified as a Level 3 measurement for which fair value is derived from inputs that are unobservable and significant to the overall fair value measurement. The contingent consideration will be remeasured at fair value in each period following the closing within selling, general and administrative expense. See Note 14 for more information. In accordance with the terms of the agreement, \$1.4 million in equity was held back and is payable on October 3, 2024, which is net of a net working capital adjustment that is less than \$0.1 million. The Company issued 429 shares of non-voting common stock to the selling corporation in February 2024 in relation to the net working capital adjustment.

Mpirik

On March 8, 2023, the Company acquired all of the issued and outstanding interests of Mpirik, Inc. ("Mpirik"), a cardiology-focused healthcare technology company specializing in data-driven patient screening, automated care coordination, and clinical research. Mpirik's platform adds to the Company's existing portfolio to address the way heart disease is detected, diagnosed, and treated, further expanding Tempus's cardiology business. The acquisition resulted in goodwill of \$10.6 million. The aggregate acquisition date fair value of consideration for the Mpirik acquisition totaled \$9.7 million. Consideration was made up of \$4.6 million of non-voting common stock, \$4.7 million of cash, and contingent consideration payable in cash with an acquisition date fair value of \$0.4 million. In accordance with the terms of the agreement, \$0.8 million in cash consideration and \$0.3 million in equity consideration was held back and paid on March 11, 2024. In accordance with the equity consideration held back, the Company issued 8,724 shares of non-voting common stock to Mpirik shareholders in March 2024.

Cash consideration of \$4.7 million is net of a \$0.3 million net working capital adjustment. In accordance with the terms of the agreement, the securityholders of the acquired business will be entitled to receive contingent consideration from the Company payable in an aggregate value of \$1.0 million in cash, contingent upon the acquired business reaching a revenue target of \$1.5 million for the twelve-month period ending December 31, 2023. The contingent consideration has an acquisition fair value date of \$0.4 million, which the Company recognized within Other current liabilities. The contingent consideration is classified as a Level 3 measurement for which fair value is derived from inputs that are unobservable and significant to the overall fair value measurement. The contingent consideration will be remeasured at fair value in each period following the closing within selling, general and administrative expense. Mpirik did not achieve the revenue target for the twelve-month period ending December 31, 2023. As such, the contingent consideration liability was written down to \$0. See Note 14 for more information. In addition, the Company issued 17,450 performance stock units to certain retained Mpirik employees on the closing date of the acquisition.

Arterys

On October 3, 2022, the Company acquired Arterys, Inc. ("Arterys"), a company that provides a platform to derive insights from radiology medical images to improve diagnostic decision-making, efficiency, and productivity across multiple disease areas, which resulted in goodwill of \$11.1 million. The aggregate acquisition date fair value of consideration for the Arterys acquisition totaled \$8.3 million, net of cash acquired of \$0.3 million. Consideration was made up of \$4.9 million of non-voting common stock and \$3.0 million cash. Cash consideration of \$3.0 million is net of a \$1.0 million working capital adjustment paid back to Tempus in March 2023.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS*Highline*

On January 4, 2022, the Company entered into a Unit Purchase Agreement with Highline Consulting, LLC (“Highline”), a California limited liability company, Highline Consulting Parent, LLC, and the unitholders of Highline (collectively, the “Sellers”), pursuant to which the Company acquired all of the issued and outstanding interests of Highline, which transaction is referred to as the “Highline Acquisition”. Highline manages and executes on early and late-stage clinical trials, applying a customized approach to each study. Highline’s capabilities and expertise will help support and grow new and established business lines within Tempus, allowing the Company to vertically integrate more clinical trial services when appropriate to complement its existing CRO partnerships. Highline revenue will be included within Data and services revenue in the Company’s consolidated financial statements.

The Company acquired Highline for a purchase price of \$35.5 million. In addition, following the closing, the Sellers will be entitled to receive contingent consideration from the Company in an aggregate amount of up to \$5.0 million, payable in a combination of cash and shares of the Company’s Class A common stock, contingent upon certain individual Sellers remaining employed by the Company as of the first and second anniversary of the closing. The contingent payments will be recorded pro rata over the two years following the closing within selling, general and administrative expense. In addition, the Company established a retention bonus pool of restricted stock units with an aggregate value of \$4.0 million to be allocated among Highline employees retained by the Company. The retention bonus pool will be recorded as compensation expense over the requisite service period.

The Company incurred an insignificant amount of transaction costs related to the Highline Acquisition, which were recorded within Selling, general and administrative expense in the consolidated statement of operations.

The aggregate acquisition date fair value of consideration for the Highline Acquisition totaled \$35.0 million, net of cash acquired of \$3.6 million and net working capital deficiency of \$0.5 million.

The following table summarizes the allocation of the aggregate purchase price of the Highline Acquisition (in thousands):

Cash	\$ 3,601
Accounts receivable	1,743
Prepaid expenses and other current assets	778
Accounts payable	(1,124)
Accrued expenses	(31)
Other current liabilities	(3,129)
Fair value of identifiable net assets acquired	1,838
Goodwill	26,062
Trade names	8,000
Customer relationships	2,750
Net intangible assets	36,812
Total Acquisition Price	<u>\$38,650</u>

The excess of purchase consideration over the fair value of the net assets acquired was recorded as goodwill, which is primarily attributed to the assembled workforce of the acquired company and expected growth from vertical integration of Highline’s clinical trial services. As the Highline Acquisition was a stock purchase, the related goodwill created as a result of the acquisition is not deductible for tax purposes. The trade names and customer relationships intangible assets were established with seven year and three year remaining useful lives, respectively.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

AKESOgen

On December 9, 2019, in accordance with a stock purchase agreement, Tempus AI, Inc. purchased 100% of the issued and outstanding shares of capital stock of AKESOgen for \$30.3 million, with an adjustment for working capital. The transaction included a contingent consideration arrangement to transfer shares of non-voting common stock to the former owners with an acquisition date fair value of \$3.4 million, which the company recognized under long-term liabilities. The consideration was to be paid out based on AKESOgen's 2020 revenue, with a maximum payout of 726,979 shares of non-voting common stock. On May 19, 2021, the Company entered into a settlement agreement with the former owners of AKESOgen related to the contingent consideration, whereby \$7.5 million was paid in cash and 145,466 shares of non-voting common stock were to be paid out on the third anniversary of the Closing date. The shares of non-voting common stock were issued on December 9, 2022 and subsequently repurchased by the Company in January 2023.

4. BALANCE SHEET COMPONENTS

Property and Equipment, net

The following summarizes property and equipment, net as of December 31, 2022 and 2023 and March 31, 2024 (in thousands):

	December 31, 2022	December 31, 2023	March 31, 2024
Equipment	\$ 65,327	\$ 91,656	\$ 94,211
Leasehold improvements	30,390	42,433	43,683
Furniture and fixtures	6,633	6,633	6,633
Total property and equipment, gross	102,350	140,722	144,527
Less: accumulated depreciation	(58,245)	(79,041)	(85,310)
Property and equipment, net	<u>\$ 44,105</u>	<u>\$ 61,681</u>	<u>\$ 59,217</u>

Depreciation expense on property and equipment is classified as follows in the accompanying consolidated statements of operations for the years ended December 31, 2022 and 2023 and the three months ended March 31, 2023 and 2024 (in thousands):

	Year-Ended		Three Months Ended	
	December 31, 2022	December 31, 2023	March 31, 2023	March 31, 2024
Cost of revenue, genomics	\$ 8,190	\$ 12,961	\$ 3,141	\$ 3,381
Selling, general and administrative costs	7,133	8,318	1,919	2,888
Research and development	1,371	—	—	—
Total depreciation	<u>16,694</u>	<u>21,279</u>	<u>5,060</u>	<u>\$ 6,269</u>

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**Accrued Expenses**

Accrued expenses as of December 31, 2022 and 2023 and March 31, 2024, consist of the following (in thousands):

	December 31, 2022	December 31, 2023	March 31, 2024
Accrued compensation and employee benefits	\$ 22,374	\$ 21,950	\$ 16,193
Accrued expenses	25,321	37,783	36,122
Accrued cloud storage costs	7,118	13,921	21,113
Interest payable	459	8,863	8,822
Total accrued expenses	<u>\$ 55,272</u>	<u>\$ 82,517</u>	<u>\$ 82,250</u>

5. GOODWILL AND INTANGIBLES

Goodwill represents the excess of the purchase price in a business combination over the fair value of net tangible and intangible assets acquired. As disclosed in Note 2, Goodwill is tested for impairment at least annually as of October 1st. The changes in the carrying amount of goodwill for the years ended December 31, 2022 and 2023 were as follows (in thousands):

Balance as of December 31, 2021	<u>\$ 15,985</u>
Goodwill related to business combinations	37,113
Foreign exchange rate adjustment	<u>2</u>
Balance as of December 31, 2022	<u>\$ 53,100</u>
Goodwill related to business combinations	<u>\$ 20,249</u>
Foreign exchange rate adjustment	<u>5</u>
Balance as of December 31, 2023	<u>\$ 73,354</u>

During the three months ended March 31, 2023, goodwill of \$10.6 million was recorded in connection with the acquisition of Mpirik. There were no goodwill additions for the three months ended March 31, 2024.

There was no goodwill impairment for the years ended December 31, 2022 and 2023 or for the three months ended March 31, 2023 and 2024.

Intangible assets are initially recorded at their acquisition cost, or fair value if acquired as part of a business combination and amortized over their estimated useful lives. Intangible assets consist of a website domain, customer relationships and trade names acquired as part of a business combination, and licensed data acquired by entering into research collaboration agreements. In each license arrangement, the other party provides the Company with specified data, which currently is used primarily for research and development purposes but may also be licensed to third parties. The asset represents the Company's right to use these datasets. The Company also recognizes a liability for the associated minimum payments that are presented within accrued data licensing fees.

During the year ended December 31, 2022, the Company recorded an additional \$2.1 million in licensed data related to de-identified data obtained through additional research collaboration agreements, and \$8.0 million and \$2.8 million of trade names and customer relationships, respectively, related to the Highline Acquisition. During the year ended December 31, 2023, the Company recorded an additional \$3.8 million in licensed data related to de-identified data obtained through an additional agreement.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

In January 2023, the Company amended a data licensing agreement, which reduced the future data license payments the Company owes in exchange for waiving exclusivity rights on the licensed data. The Company remeasured the related licensed data intangible asset to fair value, which resulted in an impairment of \$7.4 million recorded in Research and development during the year ended December 31, 2023. A \$7.9 million gain resulting from the related reduction of future data license payments was also recorded in Research and development during the year ended December 31, 2023. The impairment resulted in a reduction of \$40.1 million and \$32.7 million to gross intangible assets and accumulated amortization, respectively.

The following table summarizes intangible assets as of December 31, 2022 and 2023 and March 31, 2024 (in thousands):

Intangible Assets

	December 31, 2022			December 31, 2023			March 31, 2024		
	Gross Amount	Accumulated Amortization	Net	Gross Amount	Accumulated Amortization	Net	Gross Amount	Accumulated Amortization	Net
Customer relationships	\$20,550	\$ 8,581	\$11,969	\$20,550	\$ 12,219	\$ 8,331	\$20,550	\$ 13,066	\$ 7,484
Licensed data	55,612	37,179	18,433	19,321	11,469	7,852	19,321	13,257	6,064
Website domain	19	—	19	19	—	19	19	—	19
Trade names	8,000	1,143	6,857	8,000	2,286	5,714	8,000	2,571	5,429
	<u>\$84,181</u>	<u>\$ 46,903</u>	<u>\$37,278</u>	<u>\$47,890</u>	<u>\$ 25,974</u>	<u>\$21,916</u>	<u>\$47,890</u>	<u>\$ 28,894</u>	<u>\$18,996</u>

Amortization of intangible assets is recognized using the straight-line method over their estimated useful lives, which range from three to seven years. Amortization expense was \$13.3 million and \$11.9 million for the years ended December 31, 2022 and December 31, 2023, respectively, and \$2.9 million for both the three months ended March 31, 2023 and 2024, respectively, and is recorded in cost of revenues, research and development, or selling, general and administrative expense, depending on use of the asset. The weighted average life of our intangibles is approximately six years.

As of December 31, 2023, the estimated future amortization expense related to intangible assets is as follows (in thousands):

2024	\$ 10,751
2025	4,509
2026	4,204
2027	1,290
2028	1,143
Thereafter	—
Total	<u>\$ 21,897</u>

6. COMMITMENTS AND CONTINGENCIES

Purchase Obligations

The Company has entered into non-cancelable arrangements with third parties, primarily related to data licenses and cloud computing services. Where applicable, the Company calculates its obligation based on termination fees that can be paid to exit the contract. The data license agreements include committed payments for access to the data and additional payments contingent on the commercialization of such data. For the years

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

ended December 31, 2022 and 2023, the Company recognized data licensing and cloud computing expenses of \$31.1 million and \$33.7 million, respectively, related to non-cancelable arrangements.

As of December 31, 2023, future payments under these contractual obligations were as follows (in thousands):

2024	\$ 42,080
2025	41,580
2026	26,008
2027	3,829
2028	—
Thereafter	—
Total purchase obligations	<u>113,497</u>
Less: Amount representing interest	<u>77</u>
Present value of net minimum purchase obligations	113,420
Less: Current portion of purchase obligations	40,503
Total long-term purchase obligations	<u>\$ 72,917</u>

Legal Matters

From time to time in the normal course of business, the Company may be subject to various legal matters such as threatened or pending claims or proceedings. There were no material such matters as of and for the year ended December 31, 2023 or the three months ended March 31, 2024.

7. LEASES

The Company has entered into various non-cancelable operating lease agreements, primarily for the rent of office and lab space, with expirations at various dates through 2029. The Company has also acquired portions of its equipment under finance lease arrangements, formerly referred to as capital leases under ASC 840, with expirations between 2022 and 2023. Lease cost is recognized on a straight-line basis over the lease term. Variable lease costs, which include items such as real estate taxes, common area maintenance, utilities, and storage are not included in the calculation of the right-of-use assets and are recognized as incurred.

The components of total lease costs for the years ended December 31, 2022 and 2023 are as follows:

	Year-Ended	
	December 31, 2022	December 31, 2023
Operating lease cost	\$ 6,426	\$ 6,760
Variable lease cost	4,732	4,641
Short-term lease costs	139	441
Sublease income	(191)	(52)
Finance lease cost		
Amortization of right-of-use assets	381	283
Interest on lease liabilities	21	5
Total lease costs	<u>\$ 11,508</u>	<u>\$ 12,078</u>

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Lease term and discount rate as of December 31, 2022 and 2023 are as follows:

	<u>December 31,</u> <u>2022</u>	<u>December 31,</u> <u>2023</u>
Weighted-average remaining lease term (in years)		
Operating leases	6.6	5.9
Finance leases	0.7	0.0
Weighted-average discount rate		
Operating leases	6.7%	6.9%
Finance leases	4.2%	0.0%

As of December 31, 2023, the future payments under operating leases for each of the next five years and thereafter are as follows (in thousands):

2024	\$ 6,774
2025	9,053
2026	7,652
2027	7,726
2028	8,044
Thereafter	8,732
Total minimum lease payments	<u>47,981</u>
Less: Amount representing interest	9,504
Present value of net minimum lease payments	<u>38,477</u>
Less: Current portion of lease liabilities	6,437
Total long-term lease liabilities	<u>\$ 32,040</u>

As of March 31, 2024, there were no material changes to the Company's total lease costs, lease term and discount rate, or lease obligations.

8. STOCKHOLDERS' EQUITY**Common Stock**

The Company has authorized two classes of common stock, voting and non-voting. In March 2021, the Company amended its certificate of incorporation to bifurcate the voting common stock into two classes, Class A common stock and Class B common stock. As of December 31, 2021, the Company had authorized 181,700,285 shares of Class A common stock, 5,374,899 shares of Class B common stock, and 63,946,627 shares of non-voting common stock. In January 2022, the Company increased the number of authorized shares of non-voting common stock to 66,946,627. In April 2022, the Company increased the number of authorized shares of Class A common stock to 195,865,548 in conjunction with the Series G-3 Preferred stock financing (see Note 9, Redeemable Convertible Preferred Stock). In October 2023, the Company increased the number of authorized shares of Class A common stock to 200,228,024 in conjunction with the Series G-4 Preferred stock financing (see Note 9, Redeemable Convertible Preferred Stock).

Class A common stock, Class B common stock and non-voting common stock are collectively referred to as "Common Stock" throughout the notes to these consolidated financial statements unless otherwise noted.

The rights of the holders of Class A common stock, Class B common stock and non-voting common stock are identical, except with respect to voting. Each share of Class A common stock is entitled to one vote per share.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

and each share of Class B common stock is entitled to fifteen votes per share. Non-voting shares of common stock do not have voting rights.

Each share of Class B common stock is convertible at any time at the option of the holder into one share of Class A common stock. Upon the closing of the IPO, on any transfer of shares of Class B common stock, whether or not for value, each such transferred share will automatically convert into one share of Class A common stock, except for certain transfers detailed below and further described in the Company's amended and restated certificate of incorporation that will be in effect on the closing of this offering.

Any holder's shares of Class B common stock will convert automatically into Class A common stock, on a one-to-one basis, upon certain circumstances, including: (1) the sale or transfer of such shares of Class B common stock, other than to a "controlled entity," which is any person or entity which, directly or indirectly, is controlled by, or is under common control with, the holder of such shares of Class B common stock; (2) the trading day that is no less than 90 days and no more than 150 days following the twenty-year anniversary of the filing of the Company's twelfth amended and restated certificate of incorporation, which is _____, 2044; (3) the date on which Mr. Lefkofsky is no longer providing services to the Company as an executive officer or member of the board of directors; and (4) the trading day that is no less than 90 days and no more than 150 days following the date that Mr. Lefkofsky and his controlled entities hold, in the aggregate, fewer than 10,000,000 shares of the Company's capital stock (as adjusted for stock splits, stock dividends, combinations, subdivisions and recapitalizations).

Once transferred and converted into Class A common stock, the Class B common stock may not be reissued.

Shares of non-voting common stock automatically convert into shares of Class A common stock immediately upon the closing of an initial public offering ("IPO").

The Company issues stock-based awards to its employees in the form of stock options, restricted stock units, performance stock units and restricted stock, all of which have the potential to increase the outstanding shares of common stock in the future (see Note 10, Stock-Based Compensation).

Upon any liquidation, dissolution or winding up of the Company, the remaining assets of the Company would first be distributed to the holders of Series G-5 Preferred Stock (see Note 17, Unaudited Subsequent Events), Series G-4 Preferred Stock, Series G-3 Preferred Stock, Series G-2 Preferred Stock, Series G Preferred Stock, Series F Preferred Stock, followed by distributions to the holders of Series E Preferred Stock, Series D Preferred Stock, Series C Preferred Stock, Series B-2 Preferred Stock, Series B-1 Preferred Stock, Series B Preferred Stock, and Series A Preferred Stock. After distribution to the preferred stockholders, the remaining assets of the Company would be distributed to the holders of shares of Series C Preferred Stock and Common Stock, pro rata based on the number of shares then held by each holder, treating all Series C Preferred Stock as if they had been converted into Common Stock.

Common Stock Warrant

In connection with a 2021 strategic collaboration with AstraZeneca, as amended in October 2022, February 2023 and December 2023, the Company granted warrants to purchase \$100 million in shares of the Company's Class A common stock at an exercise price equal to the price per share at which the Company's common stock is valued in connection with the consummation of an IPO or a de-SPAC transaction, if an IPO or de-SPAC is completed on or before December 31, 2022. As no such transaction has occurred, in accordance with the agreement, the exercise price will be the latest equity financing price. The warrant will be automatically cancelled and terminated for no consideration in the event AstraZeneca declines to extend its financial commitment before December 31, 2024. If AstraZeneca exercises the warrant, AstraZeneca will be required to increase its minimum commitment under the MSA from \$220 million to \$320 million through December 2028.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

On December 8, 2023, the Company issued Allen & Company LLC (“Allen”) a warrant to purchase 150,000 shares of the Company’s Class A common stock at a price per share of \$10.00. The exercise period of the warrant is from the date of issuance to November 30, 2026. The warrant may be exercised at any time at Allen’s option. However, upon a change in control or an IPO, the warrant will be automatically exercised. The warrant was issued as compensation for Allen’s assistance with the issuance of the Company’s Series G-4 preferred stock, and as such has been treated as an issuance cost and presented net of proceeds from Series G-4 preferred stock in Convertible redeemable preferred stock on the Company’s consolidated balance sheet.

Treasury Stock

In January 2023, the Company repurchased 145,466 shares of non-voting common stock previously issued to the former owners of December 2019 acquisition AKESOgen. These shares were accounted for as treasury stock. The Company records treasury stock at cost.

9. REDEEMABLE CONVERTIBLE PREFERRED STOCK

In November 2020, the Company authorized 7,135,072 shares and issued 3,296,093 shares of Series G-2 Preferred stock (“Series G-2 Preferred”). In January 2021, the Company issued 287,922 shares of Series G-2 Preferred Stock for aggregate proceeds of \$16.5 million. In conjunction with this issuance, the Company redeemed 130,876 shares of Series G-2 Preferred Stock from a related party in exchange for \$7.5 million. Each share has a par value of \$0.0001. The Company used the proceeds from such issuances for working capital and general corporate purposes.

In April 2022, the Company issued 1,614,114 shares of Series G-3 Preferred stock (“Series G-3 Preferred”) for aggregate proceeds of \$92.5 million. Each share has a par value of \$0.0001. The Company will use the proceeds for working capital and general corporate purposes.

In January 2023, the Company issued 47,781 shares of Series G-3 convertible preferred stock as payment of paid-in-kind dividends.

In October 2023, the Company issued 785,245 shares of Series G-4 convertible preferred stock (“Series G-4 Preferred”) for aggregate proceeds of \$45.0 million. Each share has a par value of \$0.0001. The Company will use the proceeds for working capital and general corporate purposes.

In January 2024, the Company issued 66,465 shares of Series G-3 convertible preferred stock and 10,666 shares of Series G-4 convertible preferred stock as payment of paid-in-kind dividends.

In April 2024, the Company issued 3,489,981 shares of Series G-5 convertible preferred stock (“Series G-5 Preferred”) for aggregate proceeds of \$200.0 million. Each share has a par value of \$0.0001. The Company will use the proceeds for working capital and general corporate purposes. Terms of Series G-5 Preferred are consistent with previous terms of redeemable convertible preferred stock.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Redeemable convertible preferred stock outstanding as of December 31, 2022 and 2023 and March 31, 2024, consisted of the following (in thousands, except share amounts):

Series Preferred	Year Issued	As of December 31, 2022			
		Shares		Liquidation Amount	Carrying Value
		Authorized	Outstanding		
Series A	2015	10,000,000	10,000,000	\$ 10,500	\$ 10,000
Series B	2016	5,374,899	5,374,899	10,500	10,000
Series B-1	2016	2,500,000	2,500,000	10,500	10,000
Series B-2	2017	4,191,173	4,191,173	31,500	30,000
Series C	2017	9,779,403	9,779,403	83,746	70,000
Series D	2018	8,534,330	8,534,330	100,347	99,479
Series E	2018	6,630,905	6,630,905	143,036	143,036
Series F	2019	8,077,674	8,077,674	246,911	246,911
Series G	2020	2,537,290	2,537,290	113,554	113,554
Series G-2*	2020/2021	3,453,139	3,453,139	197,889	197,889
Series G-3**	2022	4,362,476	1,614,114	95,274	95,274
Total convertible preferred stock		<u>65,441,289</u>	<u>62,692,927</u>	<u>\$ 1,043,757</u>	<u>\$ 1,026,143</u>

* Excludes amounts related to the conversion of convertible note

** Excludes amounts related to embedded conversion features

Series Preferred	Year Issued	As of December 31, 2023			
		Shares		Liquidation Amount	Carrying Value
		Authorized	Outstanding		
Series A	2015	10,000,000	10,000,000	\$ 10,500	\$ 10,000
Series B	2016	5,374,899	5,374,899	10,500	10,000
Series B-1	2016	2,500,000	2,500,000	10,500	10,000
Series B-2	2017	4,191,173	4,191,173	31,500	30,000
Series C	2017	9,779,403	9,779,403	86,757	70,000
Series D	2018	8,534,330	8,534,330	105,107	104,145
Series E	2018	6,630,905	6,630,905	151,621	151,621
Series F	2019	8,077,674	8,077,674	261,722	261,722
Series G	2020	2,537,290	2,537,290	119,928	119,928
Series G-2*	2020/2021	3,453,139	3,453,139	197,889	197,889
Series G-3**	2022/2023	4,362,476	1,661,895	98,891	95,238
Series G-4**	2023	4,362,476	785,245	45,514	45,000
Total convertible preferred stock		<u>69,803,765</u>	<u>63,525,953</u>	<u>1,130,429</u>	<u>1,105,543</u>

* Excludes amounts related to the conversion of convertible note

** Excludes amounts related to embedded conversion features

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Series Preferred	Year Issued	As of March 31, 2024			
		Shares		Liquidation Amount	Carrying Value
		Authorized	Outstanding		
Series A	2015	10,000,000	10,000,000	\$ 10,624	\$ 10,000
Series B	2016	5,374,899	5,374,899	10,624	10,000
Series B-1	2016	2,500,000	2,500,000	10,624	10,000
Series B-2	2017	4,191,173	4,191,173	31,873	30,000
Series C	2017	9,779,403	9,779,403	87,940	85,975
Series D	2018	8,534,330	8,534,330	106,586	105,313
Series E	2018	6,630,905	6,630,905	153,840	153,840
Series F	2019	8,077,674	8,077,674	265,551	265,551
Series G	2020	2,537,290	2,537,290	121,576	121,576
Series G-2*	2020/2021	3,453,139	3,453,139	197,889	197,889
Series G-3**	2022/2023/2024	4,362,476	1,728,360	99,870	99,047
Series G-4**	2023/2024	4,362,476	795,911	46,108	45,611
Total convertible preferred stock		69,803,765	63,603,084	1,143,105	1,134,802

* Excludes amounts related to the conversion of convertible note

** Excludes amounts related to embedded conversion features

Stock issuance costs that reduced the initial value of preferred stock were fully accreted in the period of the Series issuance. As of December 31, 2022 and 2023 and March 31, 2024, all cumulative dividends have been paid and/or accrued.

The Series A Preferred, Series B Preferred, Series B-1 Preferred, Series B-2 Preferred, Series C Preferred, Series D Preferred, Series E Preferred, Series F Preferred, Series G Preferred, Series G-2 Preferred, Series G-3 Preferred, Series G-4 Preferred, and Series G-5 Preferred, collectively, are referenced below as the "Series Preferred." The rights, preferences, privileges, restrictions and other matters relating to the Series Preferred are as follows:

Dividends

Except for the holders of Series G-2 Preferred, Series G-3 Preferred, Series G-4 Preferred, and Series G-5 Preferred, the holders of Series Preferred are entitled to dividends at a rate of 5% or 6% of the original issue price (subject to adjustment in the event of any stock dividend, stock split, combination or other similar recapitalization with respect to such class or series), depending on the series each holder participated in and/or the holders' election to receive cash dividends annually or to accrue. The holders of Series G-3 Preferred are entitled to dividends at a rate of 4% of the original issue price, paid in non-assessable shares of Series G-3 Preferred Stock ("Series G-3 PIK Dividends"). The holders of Series G-4 Preferred are entitled to dividends at a rate of 5.25% of the original issue price, paid in non-assessable shares of Series G-4 Preferred Stock ("Series G-4 PIK Dividends"). The holders of Series G-5 Preferred are entitled to dividends at a rate of 5.25% of the original issue price, paid in non-assessable shares of Series G-5 Preferred Stock ("Series G-5 PIK Dividends").

The dividends are cumulative and accrued from the date of issue while the shares are redeemable at the option of the holders. Any cash payments are subject to approval by the Board. The Company declared all historical Series C dividends in February 2024.

Voting Rights

With the exception of the Series B Preferred stockholders, Preferred stockholders are entitled to the number of votes equal to the product obtained by multiplying the number of shares of voting common stock into which their shares could be converted.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Series B Preferred stockholders are entitled to a number of votes equal to the product obtained by multiplying the number of shares of Class B common stock into which their shares could be converted by fifteen.

Liquidation Preference

Holders of Series Preferred are entitled to receive, upon a liquidation event, the amount that would have been received if all shares of Series Preferred had been converted into voting common stock immediately prior to such liquidation event. If, upon the liquidation event, the assets of the Company are insufficient to fully pay the amounts owed to Series Preferred stockholders, the holders of Series Preferred will have preferential payment over other preferred holders in the following order: Series G-5, Series G-4, Series G-3, Series G-2, Series G, Series F, Series E, Series D, Series C, Series B-2, Series B-1, Series B, Series A.

Redemption

Each outstanding share of Series G-5 Preferred, Series G-4 Preferred, Series G-3 Preferred, Series G-2 Preferred, Series G Preferred, Series F Preferred, Series E Preferred, and Series D Preferred shall be redeemed by the Company at a price equal to the original issuance price per share, plus any accruing dividends accrued but unpaid thereon whether or not declared, together with any other dividends declared but unpaid, in one cash payment not more than sixty days after the receipt by the Company, at any time during the period commencing on the date that is seven years from the original issue date of the Series G-5 Preferred shares and ending sixty days thereafter, of written notice from the holders of each preferred series, voting as separate class, requesting redemption of all shares of the preferred series. Upon receipt of a redemption request, the Company shall apply all of its assets to such redemption, and to no other corporate purpose, except to the extent prohibited by Delaware law governing distributions to stockholders.

Conversion

Each share of Series Preferred shall be convertible, at the option of the holder, at any time, into such number of fully paid and non-assessable shares of voting common stock. Each share of Series Preferred shall automatically be converted into shares of voting common stock upon either (i) the closing of a public offering resulting in at least \$100,000,000 of gross proceeds to the company or (ii) the date and time, of the occurrence of an event, specified by vote or written consent of the holders of the outstanding shares of each individual series of preferred shares. There were no shares of voting common stock issued as a result of conversion for the periods ended December 31, 2022 and 2023. In the event of an initial public offering (“IPO”), the Series G-3 Preferred and Series G-4 Preferred conversion price is subject to the greater of (i) 15% discount off of the public offering price and (ii) 10% discount off of the original issue price of the Series G-3 Preferred and Series G-4 Preferred (“Special IPO Adjustment”). In addition, holders of Series G-4 Preferred will receive an amount equal to 5% of the per share original issue price for each share of Series G-4 Preferred (the “G-4 Special Payment”), in the event that following an IPO, the average of the last trading price on each trading day during the ten day trading period beginning on the first day of trading of the Company’s Class A common stock is less than 110% of the price per share of Class A common stock sold in the IPO. In the event of an initial public offering (“IPO”), the Series G-5 Preferred conversion price is subject to the greater of (i) 10% discount off of the public offering price and (ii) 10% discount off of the original issue price of the Series G-5 Preferred (“Special Series G-5 IPO Adjustment”).

In conjunction with the issuance of the Series G-3 Preferred, the Company signed a separate agreement with one of the investors (“Investor Letter Agreement”) in which the Company will, in connection with an IPO, pay the investor an amount equal to (a) the product of 287,923 and a 15% discount off of the public offering price, less (b) the product of 287,923 and the price per share of Class A Common Stock sold in the IPO. The agreement was signed with only one investor as an incentive to invest in Series G-3 Preferred.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The Company evaluated the conversion features to assess whether they qualify as freestanding instruments which are required to be bifurcated from the host instrument. Each instrument was determined to be an embedded conversion option which is clearly and closely related to its equity host instrument, and as such, no bifurcation was required.

10. STOCK-BASED COMPENSATION**Stock Plan**

In 2015, the Company adopted the Tempus AI, Inc. 2015 Stock Plan (the Plan), which has been amended and restated numerous times to increase the aggregate shares authorized to be issued to employees, consultants, and directors of the Company. As of December 31, 2022, there were 25,115,750 shares authorized under the Plan. In April 2023, the Plan was amended to increase the aggregate shares authorized to be issued, and as of December 31, 2023, there were 28,115,750 authorized under the Plan.

The Plan provides for awards in the form of stock options, restricted stock awards, restricted stock unit awards, and performance stock units. The maximum contractual term of awards issued under the Plan is seven years. The Plan is administered by the Board of Directors of the Company, who determine the number of awards to be issued. As of December 31, 2022 and 2023, 2,476,611 shares and 2,522,250 shares, respectively, were available for future issuance under the Plan. As of March 31, 2024, 2,517,445 shares were available for issuance under the plan.

On January 18, 2023, the Company approved a two-year extension of the expiration date for active employees whose RSUs expire either in 2023 or 2024. The Company accounted for the extension as a stock compensation modification, which resulted in an increase in unrecognized compensation cost of \$40.4 million for the year ended December 31, 2023 and \$41.3 million for the three months ended March 31, 2024.

On July 18, 2023, the Company approved the removal of the market condition for 5,898,596 outstanding PSUs. The Company accounted for this as a stock compensation modification. Subsequent to the modification, these units are treated as RSUs as the terms are consistent with the Company's existing RSUs. The modification resulted in a decrease in total unrecognized compensation cost of \$19.3 million.

Restricted Stock Units

The restricted stock units ("RSUs") granted under the Plan are subject to two vesting conditions. The first is a time-based component. The majority of the awards are eligible to vest over a four-year period, with 20% of the awards being eligible to vest after one year and the remaining awards becoming eligible to vest on a quarterly basis thereafter. The second vesting condition is the occurrence of a liquidity event, as defined in the grant agreement. The fair value of each RSU is estimated on the date of grant using the 409a value of a non-voting share of common stock on such date. The table below summarizes restricted stock unit activity under the Plan for the year ended December 31, 2023:

	<u>Restricted Stock Units</u>	<u>Weighted-Average Grant Date Fair Value</u>
Unvested at December 31, 2022	12,411,421	\$ 16.15
Granted	3,050,625	\$ 33.89
Forfeited	(508,673)	\$ 33.62
Expired	(63,469)	\$ 0.28
PSU Modification	5,898,596	\$ 37.82
Unvested at December 31, 2023	<u>20,788,500</u>	<u>\$ 26.47</u>

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

There were no restricted stock units that vested during the years ended December 31, 2022 and 2023. As of December 31, 2022 and December 31, 2023, there was \$200.4 million and \$550.2 million of unrecognized stock compensation expense relating to RSUs, respectively. Because of the liquidity event requirement, the Company cannot estimate the weighted-average period over which this expense will be recognized.

As of March 31, 2024, there was \$555.0 million of unrecognized stock compensation expense related to RSUs.

Performance Stock Units

The performance stock units (“PSUs”) granted under the Plan are subject to two vesting conditions. For PSUs granted prior to 2022, the first condition is the achievement of a valuation target. The second vesting condition is the occurrence of a liquidity event, as defined in the grant agreement. For PSUs granted in 2022, the first condition is the achievement of the acquired business reaching a revenue target for the twelve-month period ending December 31, 2023. This target was not met as of December 31, 2023, which resulted in the forfeiture of 17,450 PSUs. The fair value of each PSU is estimated on the date of grant using the 409a value of a non-voting share of common stock on such date. The table below summarizes performance stock unit activity under the Plan for the year ended December 31, 2023:

	Performance Stock Units	Weighted-Average Grant Date Fair Value
Unvested at December 31, 2022	5,898,596	\$ 41.09
Granted	17,450	\$ 32.89
Forfeited	(17,450)	\$ 32.89
PSU Modification	(5,898,596)	\$ 41.09
Unvested at December 31, 2023	<u>—</u>	<u>\$ —</u>

As of December 31, 2022 and 2023 and March 31, 2024, there was \$242.4 million, \$0 million, and \$0 million of unrecognized compensation expense related to Performance Stock Units, respectively.

Stock Options

Options granted pursuant to the Plan vest on varying schedules, based upon individual agreements. The fair value of each option granted is estimated on the date of grant using the Black-Scholes option-pricing model. The estimated life for the stock options was based on the term of the agreement. The risk-free interest rate is based on the rate for a U.S. government security with the same estimated life at the time of the option grant and the stock purchase rights.

	Number of Options	Exercise Price Ranges	Weighted-Average Exercise Price
Outstanding at December 31, 2022	210,000	\$ 0.85	\$ 0.85
Granted	—	\$ —	\$ —
Exercised	—	\$ —	\$ —
Forfeited	—	\$ —	\$ —
Outstanding at December 31, 2023	<u>210,000</u>	<u>\$ 0.85</u>	<u>\$ 0.85</u>
Options exercisable at December 31, 2023	<u>210,000</u>	<u>\$ 0.85</u>	<u>\$ 0.85</u>

The outstanding stock options were fully expensed prior to 2020. As such, no stock compensation expense relating to stock options was recorded in the year ended December 31, 2022 and 2023, and there is no unrecognized expense relating to stock options.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Restricted Stock Awards

The Company has previously granted restricted stock awards to employees. Compensation expense on those awards was recognized on a straight-line basis over the requisite service periods of the awards, typically three to four years.

	<u>Restricted</u>	<u>Unrestricted</u>	<u>Total</u>	<u>Weighted-Average Grant Date Fair Value</u>
Balance at December 31, 2022	—	4,250,000	4,250,000	\$ 0.42
Vesting of restricted stock into unrestricted	—	—	—	\$ 0.42
Balance at December 31, 2023	<u>—</u>	<u>4,250,000</u>	<u>4,250,000</u>	<u>\$ 0.42</u>

No compensation cost was recognized for the years ended December 31, 2022 and 2023, respectively, and as of December 31, 2022 and 2023, there was no unrecognized compensation cost related to non-vested restricted stock awards, respectively.

11. DEBT

Term Loan Facility

On September 22, 2022, the Company entered into a Credit Agreement with Ares Capital Corporation (“Ares”) for a senior secured loan (the “Term Loan Facility”) in the amount of \$175 million, less original issue discount of \$4.4 million and deferred financing fees of \$2.6 million. On April 25, 2023, the Company entered into an amendment to the Credit Agreement, which was accounted for as a debt modification. The amendment to the Credit Agreement increased the Term Loan Facility by an aggregate principal amount of \$50 million, less original issue discount of \$1.3 million and increased the interest rate on the Term Loan Facility by 25 basis points. On October 11, 2023, the Company signed a second amendment to its Credit Agreement with Ares which provided an additional \$35.0 million in term debt. The Company received \$34.1 million in cash, which is the aggregate principal amount of \$35.0 million less original issue discount of \$0.9 million. Terms of the second amendment are consistent with existing terms of the Credit Agreement. The proceeds of the Term Loan Facility will be used for working capital and general corporate purposes, to finance growth initiatives, to pay for operating expenses, and to pay the Transaction Costs. The Term Loan Facility is due at maturity on September 22, 2027 and is subject to quarterly interest payments for Base Rate Loans and at the end of the applicable interest rate period for Secured Overnight Financing Rate (“SOFR”) Loans. As of December 31, 2022, the interest rate on the Term Loan Facility was 10.5%. As of December 31, 2023, the interest rate on the \$175 million originally borrowed under the Term Loan Facility was 10.40%, 10.39% on the \$50 million borrowed under the amended Credit Agreement, and 10.41% on the \$35 million borrowed under the second amended Credit Agreement. As of March 31, 2024, the interest rate on the Term Loan Facility was 10.33%.

After the first three months from the effective date, each quarter, the Company has the option to convert the borrowing type to either a Base Rate Borrowing, which bears interest based on a Base Rate, defined as the greatest of the (a) the “Prime Rate” appearing the “Money Rates” section of the Wall Street Journal or another national publication selected by the Agent, (b) the Federal Funds Rate plus 0.50%, (c) Term SOFR for a one-month tenor in effect on such day plus 1.00% in each instance as of such day and (d) 2.00%, or a SOFR Borrowing, which bears interest based on Term SOFR. Additionally, the Company may make either a PIK election or a Cash election. Based on these elections, the Term Loan Facility will bear interest at one of the following rates:

- (i) the sum of the Base Rate plus an Applicable Rate of 4% per annum plus 3.25% per annum paid in-kind by adding the accrued interest to the outstanding principal balance on each interest payment date
- (ii) the Base Rate plus an Applicable Rate of 6.25% per annum

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

- (iii) the sum of the Term SOFR for the interest period plus an Applicable rate of 5% per annum plus 3.25% per annum paid in-kind by adding the accrued interest to the outstanding principal balance on each interest payment date
- (iv) the Term SOFR for the interest period in effect plus the Applicable Rate of 7.25% per annum

In addition, the Term Credit Facility contains customary representations and warranties, financial and other covenants, and events of default, including but not limited to, limitations on earnout, milestone, or deferred purchase obligations, dividends on preferred stock and stock repurchases, cash investments, and acquisitions. The Company is required to maintain a minimum liquidity of at least \$25 million and maintain specified amounts of consolidated revenues for the trailing twelve-month period ending on the last day of each fiscal quarter. Minimum consolidated revenues increase each quarter. For the years ended December 31, 2024 and 2025, the Company is required to generate consolidated revenues of \$459.1 million and \$594.1 million, respectively. The Company was in compliance with all covenants of the Credit Agreement as of March 31, 2024.

All obligations under the Term Loan Facility are guaranteed by the Company and secured by substantially all of the assets of the Company.

The original issue discount of \$6.5 million and deferred financing fees of \$2.6 million are amortized over the term of the underlying debt and unamortized amounts have been offset against long-term debt in the consolidated balance sheets. As of December 31, 2022 and 2023 and March 31, 2024, the unamortized original issue discount was \$4.2 million, \$5.1 million, and \$4.8 million, respectively, and the unamortized deferred financing fees were \$2.4 million, \$1.9 million, and \$1.8 million, respectively. Amortization of the original issue discount and deferred financing fees are reflected in interest expense on the consolidated statements of operations. Amortization of the original issue discount and deferred financing fees totaled \$0.2 million and \$0.2 million, respectively, for the year ended December 31, 2022. Amortization of the original issue discount and deferred financing fees totaled \$0.3 million and \$0.1 million, respectively, for the three months ended March 31, 2023. Amortization of the original issue discount and deferred financing fees totaled \$0.3 million and \$0.1 million, respectively, for the three months ended March 31, 2024.

Through March 31, 2024, the Company has not made any principal repayments on the Term Loan Facility. Through March 31, 2024, the Company made \$7.0 million in interest payments. As of December 31, 2022, the interest rate on the Term Loan Facility was 10.5%. As of December 31, 2023, the interest rate on the \$175 million originally borrowed under the Term Loan Facility was 10.40%, 10.39% on the \$50 million borrowed under the amended Credit Agreement, and 10.41% on the \$35 million borrowed under the second amended Credit Agreement. As of March 31, 2024, the interest rate on the Term Loan Facility was 10.33%. The Company recognized interest expense of \$5.1 million and \$28.9 million related to the Term Loan Facility during the years ended December 31, 2022 and 2023, respectively. The Company recognized interest expense of \$5.1 million and \$9.1 million related to the Term Loan Facility during the three months ended March 31, 2023 and 2024, respectively.

Convertible Promissory Note

On June 22, 2020, in connection with entry into an agreement for use of Google LLC's, or Google's, Google Cloud Platform, the Company issued Google a convertible promissory note, or the Note, in the original principal amount of \$330.0 million. On November 19, 2020, in connection with Series G-2 convertible preferred stock financing, the Company issued Google \$80 million of the Series G-2 preferred stock, at a 10% discount to the purchase price per share in such financing, in partial satisfaction of the outstanding principal amount under the Note, and the Company amended and restated the terms of the Note.

The amended and restated Note, or the Amended Note, has a principal amount of \$250.0 million, and bears interest at the rate set forth therein. The principal amount is automatically reduced each year based on a formula

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

taking into account the aggregate value of the Google Cloud Platform services used by the Company. The Company accounts for the principal reductions as an offset to its cloud and compute spend within selling, general and administrative in its Consolidated Statements of Operations and Comprehensive Loss. The outstanding principal and accrued interest under the Amended Note, or the Outstanding Amount, is due and payable on the earlier of (1) March 22, 2026, which is the maturity date of the Amended Note, (2) upon the occurrence and during the continuance of an event of default, and (3) upon the occurrence of an acceleration event, which includes any termination by the Company of its Google Cloud Platform agreement. The Company generally may not prepay the Outstanding Amount, except that the Company may, at its option, prepay the Outstanding Amount in an amount such that the principal amount remaining outstanding after such repayment is \$150.0 million.

If the Amended Note is outstanding at the maturity date, Google may, at its option, convert the then outstanding principal amount and interest accrued under the Amended Note into a number of shares of our Class A common stock equal to the quotient obtained by dividing (1) the Outstanding Amount on the maturity date, by (2) the average of the last trading price on each trading day during the twenty day period ending immediately prior to the maturity date.

The Company concluded that one of the conversion features meets the definition of an embedded derivative that is required to be accounted for as a separate unit of accounting. The fair value of the embedded derivative is not material and was therefore not bifurcated. As such, upon issuance of the Note the Company recorded a promissory note of \$330.0 million. The Company recognized interest expense of \$16.4 million and \$15.8 million during the year ended December 31, 2022 and 2023, respectively. The Company recognized interest expense of \$3.8 million and \$3.6 million during the three months ended March 31, 2023 and 2024, respectively.

12. NET LOSS PER SHARE ATTRIBUTABLE TO COMMON STOCKHOLDERS

Basic net loss per share is calculated by dividing the net loss by the weighted average number of outstanding shares of Common Stock each period. Diluted net loss per share is calculated by giving effect to all potential dilutive Common Stock equivalents, which includes stock options, RSUs, RSAs, PSUs, and preferred stock. Because the Company incurred net losses each period, the basic and diluted calculations are the same. As a result of the adoption of ASU 2020-06 during Q1 2022, the Company used the if-converted method to calculate diluted EPS. As the Company had net losses in the years ended December 31, 2022 and 2023, and the three months ended March 31, 2023 and 2024, respectively, all potentially dilutive common stock equivalents have been excluded from the calculation of diluted net loss per share attributable to common stockholders as their effect is anti-dilutive.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The following table presents the calculation for basic and diluted net loss per share (in thousands, except share and per share data):

Basic and Diluted Net Loss per share

	Year-Ended December 31,		Three Months Ended March 31,	
	2022	2023	2023	2024
Numerator:				
Net loss	(289,811)	(214,118)	(54,377)	(64,743)
Accretion of convertible preferred stock to redemption value	(301)	(4,338)	—	—
Dividends on Series A, B, B-1, B-2, C, D, E, F, G, G-3, and G-4 preferred shares	(40,975)	(44,497)	(10,669)	(27,807)
Cumulative Undeclared Dividends on Series C preferred shares	(2,841)	(3,011)	(721)	(506)
Net loss attributable to common stockholders	<u>(333,928)</u>	<u>(265,964)</u>	<u>(65,767)</u>	<u>(93,056)</u>
Denominator:				
Weighted-average common shares outstanding, basic and diluted	<u>63,032</u>	<u>63,306</u>	<u>63,229</u>	<u>63,430</u>
Net loss per share attributable to common stockholders, basic and diluted	<u>\$ 5.30</u>	<u>\$ 4.20</u>	<u>\$ (1.04)</u>	<u>\$ (1.47)</u>

The following outstanding shares of common stock equivalents were excluded from the calculation of diluted net loss per share for each period, as the impact of including them would have been anti-dilutive. As disclosed in Note 8, the Company issued a warrant for \$100 million in shares of the Company's Class A common stock. As per the terms of the warrant, potentially dilutive shares are based on the latest equity financing price.

Exclusion from calculation of diluted net loss per share

	As of December 31,		As of March 31,	
	2022	2023	2023	2024
Stock options outstanding	210,000	210,000	210,000	210,000
Convertible preferred stock	62,692,927	63,525,953	62,740,708	63,603,084
Astrazeneca warrant	1,744,991	1,744,991	1,744,991	1,744,991
Mpirik holdback liability	—	8,724	8,724	—
SEngine holdback liability	—	41,436	—	41,007
Allen & Company warrant	—	150,000	—	150,000
Total potentially dilutive shares	<u>64,647,918</u>	<u>65,681,104</u>	<u>64,704,423</u>	<u>65,749,082</u>

As disclosed in Note 10, the Company's RSUs include a triggering liquidation performance condition prior to vesting. As disclosed in Note 11, contingent upon certain financing events, the Company's Convertible Promissory Note will be converted to shares at the holder's option, based on the amount outstanding at the maturity date, which is subject to reduction based on services used by us prior to the maturity date. As such, these are treated as contingently issuable shares and will be excluded from potential dilutive impact until the triggering liquidation performance condition is satisfied.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

As disclosed in Note 9, the Company's Series G-3 Preferred and Series G-4 Preferred contain embedded conversion features which will result in additional shares of Class A Common Stock to be distributed upon completion of an IPO. The number of shares which will be paid out related to these features is dependent upon the IPO price. As such, these are treated as contingently issuable shares and will be excluded from potential dilutive impact until the successful completion of an IPO.

As disclosed in Note 3, as part of the SEngine acquisition, the transaction includes a contingent consideration of up to 35,000 additional shares of non-voting common stock, to be determined based on the per share price of the Company's non-voting common stock in a liquidity event completed prior to December 31, 2027. The number of shares which will be paid out is dependent upon the IPO price. As such, these are treated as contingently issuable shares and will be excluded from potential dilutive impact until the successful completion of an IPO.

13. INCOME TAXES

Deferred income taxes consist of the following as of December 31, 2022 and 2023 (in thousands):

	December 31,	
	2022	2023
Deferred Income Tax Assets:		
Net Operating Loss Carryforwards	\$ 196,643	\$ 195,378
IRC §163(j) Interest Expense Limitation Carryover	10,784	18,785
Lease Liability	11,179	9,496
Research and Development	37,590	68,411
Excess of Tax Basis over Book Basis Fixed Assets	434	2,473
Deferred Revenue	473	10,457
Revenue Reserve Liability	1,351	3,748
Other	2,033	4,779
	<u>\$ 260,487</u>	<u>\$ 313,527</u>
Less Valuation Allowance	(244,064)	(297,294)
	<u>\$ 16,423</u>	<u>\$ 16,233</u>
Deferred Income Tax Liabilities		
Unrealized Gain/Loss on Marketable Equity Securities	—	(2,420)
Right of Use Asset	(6,129)	(5,067)
Warrant Contract Asset	(8,169)	(7,513)
Other	(2,125)	(1,356)
	<u>\$ (16,423)</u>	<u>\$ (16,356)</u>
Net Deferred Income Tax Asset (Liability)	<u>\$ —</u>	<u>\$ (123)</u>

The total income tax expense (benefit) consists of the following as of December 31, 2022 and 2023 (in thousands):

	December 31,	
	2022	2023
Current Tax Expense (Benefit)	66	165
Deferred Tax Expense (Benefit)	(66,827)	(52,755)
Change in Valuation Allowance	66,827	52,878
Total income tax expense (benefit)	<u>\$ 66</u>	<u>\$ 288</u>

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The provision for income taxes consists of the following as of December 31, 2022 and 2023 (in thousands):

	December 31,	
	2022	2023
Current tax expense (benefit)		
Federal	—	—
State	66	13
Foreign	—	152
Total	<u>\$ 66</u>	<u>\$ 165</u>
Deferred tax expense (benefit)		
Federal	(59,141)	(45,738)
State	(7,686)	(7,017)
Total	<u>(66,827)</u>	<u>(52,755)</u>
Change in valuation allowance	66,827	52,878
Total income tax expense (benefit)	<u>\$ 66</u>	<u>\$ 288</u>

The components of income before income taxes as follows (in thousands):

	December 31,	
	2022	2023
Domestic	\$ (289,556)	\$ (213,522)
Foreign	398	(243)

A reconciliation of the difference between the federal statutory rate and the effective income tax rate as a percentage of income before taxes for the years ended December 31, 2022 and 2023:

	December 31,	
	2022	2023
Federal Statutory Tax Rate	21.00%	21.00%
State Statutory Tax Rate	2.64%	3.28%
Foreign	0.03%	(0.09)%
Permanent Differences	(0.29)%	0.47%
Other	(0.29)%	(0.06)%
Change in Valuation Allowance	(23.11)%	(24.74)%
Total	<u>(0.02)%</u>	<u>(0.14)%</u>

Net change in valuation allowance as follows (in thousands):

	December 31,	
	2022	2023
Valuation Allowance, beginning of year	\$ 161,749	\$ 244,064
Charges	66,827	52,878
Purchase accounting adjustments	15,488	352
Valuation Allowance, end of year	<u>\$ 244,064</u>	<u>\$ 297,294</u>

The Company's income tax benefit as recorded in the financial statements differs from the benefit computed by applying statutory tax rates to net loss before income taxes due to permanent differences related to the deductibility of certain expenses and the valuation allowance. There is no current income tax benefit for the years ended December 31, 2022 or 2023.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

As of December 31, 2023 the Company had federal net operating loss (“NOL”) carry forwards of \$161.7 million (tax effected) and state NOL carry forwards of approximately \$33.7 million (tax effected), which may be available to offset future taxable income. The federal NOLs will begin to expire in 2037 and the state NOLs will begin to expire in 2028. A full valuation allowance has been recorded against the NOL carry forwards.

The Company files income tax returns in the U.S. federal jurisdiction and various state jurisdictions. Due to its operating loss carryforwards, the U.S. federal statute of limitations remains open for tax year 2016 and onward and the Company continues to be subject to examination by the Internal Revenue Service for tax years 2016 and later. The resolutions of any examinations are not expected to be material to these financial statements. As of December 31, 2022 and 2023, there are no penalties or accrued interest recorded in the consolidated financial statements. The calculation of the Company’s tax obligations involves dealing with uncertainties in the application of complex tax laws and regulations. ASC 740, Income Taxes, provides that a tax benefit from an uncertain tax position may be recognized when it is more likely than not that the position will be sustained upon examination, including resolutions of any related appeals or litigation processes, on the basis of the technical merits. The Company has assessed its income tax positions and recorded tax benefits for all years subject to examination, based upon its evaluation of the facts, circumstances and information available at each period end. For those tax positions where the Company has determined there is a greater than 50% likelihood that a tax benefit will be sustained, the Company has recorded the largest amount of tax benefit that may potentially be realized upon ultimate settlement with a taxing authority that has full knowledge of all relevant information. For those income tax positions where it is determined there is less than 50% likelihood that a tax benefit will be sustained, no tax benefit has been recognized. The Company had no uncertain tax positions during the years ended December 31, 2022 and 2023.

The Company recognizes interest and, if applicable, penalties for any uncertain tax positions. Interest and penalties are recorded as a component of income tax expense. In the years ended December 31, 2022 and 2023, the Company did not have any accrued interest or penalties associated with any unrecognized tax benefits.

The Company does not provide for U.S. income taxes on unremitted earnings of foreign subsidiaries. Unremitted earnings of foreign subsidiaries were immaterial on December 31, 2022 and 2023.

For the Three Months Ended March 31, 2023 and 2024

Accounting for income taxes for interim periods generally requires the provision for income taxes to be determined by applying an estimate of the annual effective tax rate for the full fiscal year to income or loss before income taxes, adjusted for discrete items, if any, for the reporting period. The Company updates its estimate of the annual effective tax rate each quarter and makes a cumulative adjustment in such period.

Income tax expense (benefit) for the three months ended March 31, 2023 and 2024 is less than \$0.1 million.

Due to the Company’s history of losses in the United States, a full valuation allowance on all of the Company’s deferred tax assets, including net operating loss carryforwards and other book versus tax differences, was maintained.

14. FAIR VALUE MEASUREMENTS

The carrying amounts of financial instruments, including cash and cash equivalents, accounts receivable, finance lease obligations, minimum royalties, accounts payable, and accrued expenses approximate fair value due to the short maturity of these instruments. The carrying amounts of the related party receivable, finance lease obligations, and minimum royalties approximate fair value because the interest rates used fluctuate with market interest rates or the fixed rates are based on current rates offered to the Company for debt with similar terms and maturities.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The valuation methodologies used for the Company's assets and liabilities measured at fair value and their classification in the valuation hierarchy are summarized below:

Marketable equity securities— The Company holds marketable equity securities, that are all publicly traded securities with quoted prices in active markets, classified as short-term. The securities are measured at fair value each reporting period. We classify the marketable equity securities as Level 1 as they are valued using quoted market prices at each reporting period.

Contingent consideration— The Company is subject to a contingent consideration arrangement to make a cash payment in an aggregate value of \$1.0 million, contingent upon Mpirik reaching a revenue target of \$1.5 million for the twelve-month period ending December 31, 2023. See Note 3, Business Combinations, for further discussion of that acquisition.

The Company is also subject to a contingent consideration arrangement of up to 35,000 additional shares of non-voting common stock, to be determined based on the per share price of the Company's non-voting common stock in a liquidity event completed prior to December 31, 2027. The contingent consideration has an acquisition fair value date of \$0.8 million. See Note 3, Business Combinations for further discussion of that acquisition.

Liabilities for contingent consideration are measured at fair value each reporting period, with the acquisition date fair value included as part of the consideration transferred in the related business combination and subsequent changes in fair value recorded in earnings within operating expense on the consolidated statements of operations and comprehensive loss. The Company used a risk-neutral simulation model and option pricing framework to value the contingent consideration. We classify the contingent consideration liabilities as Level 3 due to the lack of relevant observable market data over fair value inputs such as probability-weighting of payment outcomes.

Warrant asset—As discussed in Note 2, the Company received warrants from Personalis. The warrant assets are measured at fair value each reporting period using a Black-Scholes option pricing model, which takes into consideration the price and volatility of Personalis Class A common stock. We classify the warrant asset as Level 2 as they are valued using observable market prices of Personalis Class A common stock.

Warrant liability—As discussed in Note 8, the Company issued a \$100 million warrant to AstraZeneca. The warrant liability is measured at fair value each reporting period, using a Black-Scholes option pricing model which takes into consideration the likelihood of the Company completing an IPO, which would allow AstraZeneca to exercise the warrant. The following table summarizes the assumptions used in the model as of December 31, 2023 and March 31, 2024:

Warrant liability assumptions

	<u>December 31, 2023</u>		<u>March 31, 2024</u>	
	<u>Initial Public Offering</u>	<u>Stay Private</u>	<u>Initial Public Offering</u>	<u>Stay Private</u>
Expected term (in years)	2.50	2.00	2.50	2.00
Risk-free interest rate	3.69%	3.56%	4.26%	4.08%
Expected volatility	55.00%	55.00%	55.00%	55.00%
Expected dividend yield	0.00%	0.00%	0.00%	0.00%
Scenario weighting	70.00%	30.00%	70.00%	30.00%

We classify the warrant liability as Level 3 due to the lack of relevant observable market data over fair value inputs such as the probability-weighting and expected term of the IPO and stay private scenarios.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The Term Loan Facility and the Note were not recorded at fair value. The fair values of the Term Loan Facility and the Note approximated their carrying values as of December 31, 2022 and 2023 and March 31, 2024. Estimates of the fair values of the Term Loan Facility and the Note are classified as Level 3 due to the lack of relevant observable market data over fair value inputs.

The following table summarizes assets and liabilities that are measured at fair value on a recurring basis as of December 31, 2022 and 2023 and March 31, 2024 (in thousands):

	December 31, 2022	Fair Value Measurement at Reporting Date Using		
		Quoted Price in Active Market for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Liabilities				
Warrant liability	\$ 42,500	\$ —	\$ —	\$ 42,500
Assets				
Marketable equity securities	\$ 31,807	\$ 31,807	\$ —	\$ —
Warrant asset	\$ 10,000	\$ —	\$ 10,000	\$ —
Liabilities				
Warrant liability	\$ 34,500	\$ —	\$ —	\$ 34,500
Contingent consideration	\$ 775	\$ —	\$ —	\$ 775
Assets				
Marketable equity securities	\$ 14,956	\$ 14,956	\$ —	\$ —
Warrant asset	\$ 5,300	\$ —	\$ 5,300	\$ —
Liabilities				
Warrant liability	\$ 35,300	\$ —	\$ —	\$ 35,300
Contingent consideration	\$ 969	\$ —	\$ —	\$ 969

The following table provides a reconciliation of the beginning and ending balances for the assets and liabilities measured at fair value using significant unobservable inputs (Level 3) (in thousands):

	Contingent Consideration	Warrant Liability
Balance at December 31, 2021	\$ 8,005	\$ 37,800
Change in fair value of contingent consideration	(3,701)	—
Change in fair value of warrant	—	4,700
Settlement paid in non-voting common shares	(4,304)	—
Balance at December 31, 2022	<u>\$ —</u>	<u>\$ 42,500</u>

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

	<u>Warrant Liability</u>	<u>Contingent Consideration</u>
Balance at December 31, 2022	\$42,500	\$ —
Contingent consideration from acquisitions	—	1,175
Change in fair value of warrant liability	(8,000)	—
Change in fair value of contingent consideration	—	(400)
Balance at December 31, 2023	<u>\$34,500</u>	<u>\$ 775</u>

	<u>Warrant Liability</u>	<u>Contingent Consideration</u>
Balance at December 31, 2023	\$ 34,500	\$ 775
Change in fair value of warrant liability	800	—
Change in fair value of contingent consideration	—	194
Balance at March 31, 2024	<u>\$ 35,300</u>	<u>\$ 969</u>

For the year ended December 31, 2022, the Company recognized a gain of \$3.7 million in selling, general and administrative expense due to the change in fair value of contingent consideration and \$4.7 million in other expense, net due to the change in the fair value of warrant liability determined by Level 3 valuation techniques.

For the year ended December 31, 2023, the Company recognized a gain of \$0.4 million in selling, general and administrative expense due to the change in fair value of contingent consideration and gains of \$8.0 million due to changes in fair value of the warrant liability determined by Level 3 valuation techniques.

For the three months ended March 31, 2024, the Company recognized a loss of \$0.8 million in other income, net due to the change in fair value of the warrant liability and a loss of \$0.2 million in selling, general and administrative expense due to the change in fair value of contingent consideration determined by Level 3 valuation techniques.

15. RELATED PARTIES

In 2018, the Company received \$1.5 million from a related party for assuming an office lease from such party. The Company is amortizing this amount over the course of its lease with the building. The Company had a remaining related liability of \$0.9 million, \$0.7 million, \$0.7 million, as of December 31, 2022 and 2023 and March 31, 2024, respectively. Upon the adoption of ASC 842, the liability is amortized through the right-of-use asset as a reduction of rent expense over the lease term. The Company subleases a portion of office space to this related party on a month-to-month basis. Sublease income received from the related party was insignificant for the years ended December 31, 2022 and 2023 and the three months ended March 31, 2024.

Strategic Investment

The Company entered into a related party arrangement in August 2021, as amended and restated in February 2024, with Pathos for the purpose of furthering the commercialization efforts of drug development. Tempus received a warrant to purchase 23,456,790 shares, or approximately 19% of the current outstanding equity in Pathos, for \$.0125 per share. The warrant will automatically exercise upon a change of control (as defined therein) or upon an IPO of Pathos' securities. The Company also has an optional exercise election window during the last 10 days of the 20 year term of the warrant agreement. Pursuant to this master agreement, the Company granted Pathos a limited, non-exclusive, revocable, non-transferable right and license, without right of sublicense, to access and download certain de-identified records from the Company's proprietary database. Pathos in turn agreed to certain license fees depending on the number of de-identified records it elects to license

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

during the term of the master agreement. Pathos also agreed to pay the Company a subscription fee equal to \$0.4 million per year for access to our Lens product. The Company recognized \$0.4 million, \$0.4 million, and \$0.1 million in revenue for this access fee in the years ended December 31, 2022 and 2023, and the three months ended March 31, 2024, respectively. The master agreement provides for an initial term of five years, measured from February 2024, with a subsequent five-year renewal provision unless the agreement is terminated. Either party may terminate the agreement after the initial five-year term by prior written notice to the other party.

In 2022, the Company entered into two additional related party arrangements with Pathos for both sequencing and other data services. The Company recognized less than \$0.3 million in revenue for both arrangements for the years ended December 31, 2022 and 2023, and the three months ended March 31, 2023 and 2024. In 2023, the Company entered into an additional related party arrangement with Pathos for other data services. The Company recognized less than \$0.1 million in revenue for the year ended December 31, 2023 and the three months ended March 31, 2023 and 2024.

As of December 31, 2022 and 2023 and March 31, 2024, there was no amount due to related parties. As of December 31, 2022 and 2023 and March 31, 2024, the amount due from related parties was \$0.4 million, less than \$0.1 million, and \$0.5 million, respectively.

16. SUBSEQUENT EVENTS

For its consolidated financial statements as of December 31, 2023, the Company evaluated subsequent events through February 28, 2024, the date on which those financial statements were available to be issued.

The Company sold 1,725,902 shares of Recursion Class A common stock during the month of February 2024 at a weighted average price of \$13.35 for \$23.0 million of cash. The Company has 1,500,000 of Recursion Class A common stock remaining in marketable equity securities.

17. UNAUDITED SUBSEQUENT EVENTS

The Company evaluated subsequent events through June 5, 2024, the date on which these financial statements were available to be issued.

Series G-5 Financing

On April 30, 2024, the Company authorized 4,362,476 and issued 3,489,981 shares of Series G-5 convertible preferred stock ("Series G-5 Preferred") for aggregate proceeds of \$200.0 million (See Note 9, Redeemable Convertible Preferred Stock).

Japan Joint Venture

On May 18, 2024, the Company entered into a Joint Venture Agreement (the "Joint Venture Agreement"), by and among SoftBank Group Corporation ("SoftBank"), SoftBank Group Japan Corporation, the Company and Pegasos Corp. (the "Joint Venture"), pursuant to which the Joint Venture will engage in certain business activities in Japan similar to those conducted by the Company in the United States, including performing clinical sequencing, organizing patient data, and building a real world data business in Japan. The Company and SoftBank initially will capitalize the Joint Venture with ¥30,000,000,000 (approximately \$190,779,000 based on foreign exchange rates as of May 31, 2024, split evenly between the two parties) and will each receive 50% of the Joint Venture's outstanding capital stock and board seats. The initial capitalization of the Joint Venture is subject to a number of closing conditions, including that the parties must agree to a business plan and operating budget for the Joint Venture, receive an independent valuation of certain licensed technology of the Company and obtain any required regulatory clearances in the United States and Japan.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

In connection with entering into the Joint Venture Agreement, the Company entered into the following agreements with the Joint Venture: a Data License Agreement (the “Data License Agreement”), which became effective immediately upon signing the Joint Venture Agreement; an Intellectual Property License Agreement (the “IP License Agreement”), and a Services Agreement, each of which will become effective upon closing. Under the Data License Agreement, Tempus will grant the Joint Venture a limited, non-exclusive, transferable license with a limited right to sublicense certain de-identified data for certain specified uses solely in Japan (which we refer to as the Unrestricted Data License). The Unrestricted Data License will be initially granted with respect to a certain specified number of de-identified data records (which we refer to as the Initial Records Batch) and the Joint Venture may elect to license additional de-identified data records under the Unrestricted Data License. Under the Data License Agreement, the Joint Venture will pay the Company ¥7,500,000,000 (approximately \$47,694,750 based on foreign exchange rates as of May 31, 2024) in exchange for the license to the Initial Records Batch. For a certain specified number of additional de-identified data records beyond the Initial Records Batch, the license fees will be the same as the Initial Records Batch or the then-current lowest price that Tempus provides to its other customers for similar data and license terms, whichever is lower. For any additional de-identified data records licensed under the Unrestricted Data License, the license fees will be the then-current lowest price that Tempus provides to its other customers for similar data and license terms. Pursuant to the IP License Agreement, the Company will provide the Joint Venture with a non-exclusive license with respect to certain of the Company’s technologies for certain specified uses solely in Japan in exchange for ¥7,500,000,000 (approximately \$47,694,750 based on foreign exchange rates as of May 31, 2024). Under the Services Agreement, the Company will provide the Joint Venture with certain services. The Company will account for the Joint Venture as a true 50/50 joint venture, which will be accounted for as an equity method investment. The accounting for the Data License Agreement and IP License Agreement is still being evaluated by the Company.

11,100,000 Shares

Class A Common Stock

"TEMPUS

MORGAN STANLEY
BofA SECURITIES
STIFEL
LOOP CAPITAL MARKETS

J.P. MORGAN

ALLEN & COMPANY LLC
TD COWEN
WILLIAM BLAIR
NEEDHAM & COMPANY

Through and including _____, 2024 (the 25th day after the date of this prospectus), all dealers effecting transactions in these securities, whether or not participating in this offering, may be required to deliver a prospectus. This is in addition to a dealer's obligation to deliver a prospectus when acting as an underwriter and with respect to an unsold allotment or subscription.

_____, 2024.

PART II**INFORMATION NOT REQUIRED IN PROSPECTUS**

Unless otherwise indicated, all references to “Tempus,” the “company,” “we,” “our,” “us” or similar terms refer to Tempus AI, Inc. and its subsidiaries.

Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth all expenses to be paid by us, other than underwriting discounts and commissions, in connection with this offering. All amounts shown are estimates except for the SEC registration fee, the FINRA filing fee and the Nasdaq listing fee.

SEC registration fee	\$ 69,713
FINRA filing fee	71,346
Nasdaq listing fee	295,000
Printing and engraving expenses	1,430,130
Legal fees and expenses	5,250,000
Accounting fees and expenses	2,375,790
Transfer agent and registrar fees	10,000
Miscellaneous	998,021
Total	\$ 10,500,000

Item 14. Indemnification of Directors and Officers.

Section 145 of the Delaware General Corporation Law authorizes a court to award, or a corporation’s board of directors to grant, indemnity to directors and officers in terms sufficiently broad to permit such indemnification under certain circumstances for liabilities, including reimbursement for expenses incurred, arising under the Securities Act. Our amended and restated certificate of incorporation that will be in effect on the closing of this offering permits indemnification of our directors, officers, employees, and other agents to the maximum extent permitted by the Delaware General Corporation Law, and our amended and restated bylaws that will be in effect on the closing of this offering provide that we will indemnify our directors and executive officers and permit us to indemnify our other officers, employees, and other agents, in each case to the maximum extent permitted by the Delaware General Corporation Law.

We have entered into indemnification agreements with our directors and executive officers, whereby we have agreed to indemnify our directors and executive officers to the fullest extent permitted by law, including indemnification against expenses and liabilities incurred in legal proceedings to which the director or executive officer was, or is threatened to be made, a party by reason of the fact that such director or executive officer is or was a director, executive officer, employee, or agent of Tempus AI, Inc., provided that such director or executive officer acted in good faith and in a manner that the director or executive officer reasonably believed to be in, or not opposed to, the best interest of Tempus AI, Inc. At present, there is no pending litigation or proceeding involving a director or executive officer of Tempus AI, Inc. regarding which indemnification is sought, nor is the registrant aware of any threatened litigation that may result in claims for indemnification.

We maintain insurance policies that indemnify our directors and officers against various liabilities arising under the Securities Act and the Securities Exchange Act of 1934, as amended, that might be incurred by any director or officer in his capacity as such.

The underwriters are obligated, under certain circumstances, under the underwriting agreement to be filed as Exhibit 1.1 hereto, to indemnify us and our officers and directors against liabilities under the Securities Act.

Item 15. Recent Sales of Unregistered Securities.

The following sets forth information regarding all unregistered securities sold since January 1, 2021:

- (1) We have granted, under our 2015 Plan, RSUs representing 15,938,986 shares of our Class A common stock to our employees, consultants, and directors, having a fair market value ranging from \$28.35 to \$54.97 per share.
- (2) We have granted, under our 2015 Plan, PSUs representing 17,450 shares of our Class A common stock to our employees, consultants, and directors, having a fair market value of \$32.89 per share. In July 2023, our board of directors approved the removal of the performance-vesting condition, following which the PSUs are treated as RSUs as the terms of such PSUs are consistent with those of our outstanding RSUs.
- (3) We have granted, under our 2015 Plan, an option to purchase 210,000 shares of our Class A common stock to Revolution Growth Management Company, Inc., having an exercise price of \$0.8542 per share.
- (4) In November 2020 and January 2021, we issued and sold an aggregate of 3,453,139 shares of our Series G-2 convertible preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$189.0 million, in private placements to 15 accredited investors, exclusive of the 130,876 shares repurchased by us in January 2021 at the original issue price per share, for an aggregate repurchase price of approximately \$7.5 million.
- (5) In November 2021, in connection with our entry into a master services agreement, we issued a warrant to AstraZeneca to purchase \$100 million in shares of our Class A common stock at an exercise price equal to the price per share at which our common stock is valued in connection with the consummation of this offering.
- (6) In January 2022, we entered into a unit purchase agreement with Highline Consulting, LLC, a California limited liability company, or Highline, Highline Consulting Parent, LLC, and the unitholders of Highline, which collectively we refer to as the Sellers, pursuant to which we acquired all of the issued and outstanding equity interests in Highline. Following the closing, the Sellers will be entitled to receive contingent consideration from us in an aggregate amount of up to \$5.0 million, payable in a combination of cash and shares of our Class A common stock, contingent upon certain individual Sellers remaining employed by us as of the first and second anniversary of the closing.
- (7) In April 2022, we issued and sold an aggregate of 1,614,114 shares of our Series G-3 convertible preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$92.5 million, in private placements to five accredited investors.
- (8) In connection with our purchase of all of the outstanding shares of AKESOgen, Inc. in December 2019, we issued 145,466 shares of Class A common stock to former stockholders of AKESOgen, Inc. in December 2022 with a fair value of approximately \$3.4 million, all of which shares were subsequently repurchased by us in January 2023.
- (9) In October 2022, in connection with our acquisition of Arterys, Inc., we issued 174,499 shares of Class A common stock to former stockholders of Arterys, Inc.
- (10) In January 2023, we issued 47,781 shares of Series G-3 convertible preferred stock as payment of paid-in-kind dividends.
- (11) In March 2023, in connection with an agreement and plan of merger to acquire Mpirik, we issued 130,862 shares of Class A common stock to former stockholders of Mpirik.

Table of Contents

- (12) In October 2023, in connection with our acquisition of SEngine, we issued 142,513 shares of Class A common stock to former stockholders of SEngine.
- (13) In October 2023, we issued and sold an aggregate of 785,245 shares of our Series G-4 convertible preferred stock at a price per share of \$57.3069, for an aggregate purchase price of approximately \$45.0 million, in private placements to three accredited investors.
- (14) In December 2023, we issued a warrant to Allen & Company LLC, an underwriter for this offering, to purchase up to 150,000 shares of our Class A common stock with an exercise price of \$10 per share.
- (15) In January 2024, we issued 66,465 shares of G-3 convertible preferred stock as payment of paid-in-kind dividends.
- (16) In January 2024, we issued 10,666 shares of G-4 convertible preferred stock as payment of paid-in-kind dividends.
- (17) In February 2024, in connection with our purchase of certain assets of SEngine, we issued 429 shares of Class A common stock to former stockholders of SEngine.
- (18) In March 2024, in connection with our purchase of certain assets of Mpirik, we issued 8,724 shares of Class A common stock to former stockholders of Mpirik.
- (19) In April 2024, we issued and sold an aggregate of 6,172,839 shares of our Series G-5 convertible preferred stock at a price per share of \$57.3069 for an aggregate purchase price of approximately \$200.0 million, in a private placement to an accredited investor.

None of the foregoing transactions involved any underwriters, underwriting discounts or commissions, or any public offering. Unless otherwise specified above, we believe these transactions were exempt from registration under the Securities Act in reliance on Section 4(a)(2) of the Securities Act (and Regulation D or Regulation S promulgated thereunder) or Rule 701 promulgated under Section 3(b) of the Securities Act as transactions by an issuer not involving any public offering or under benefit plans and contracts relating to compensation as provided under Rule 701. The recipients of the securities in each of these transactions represented their intentions to acquire the securities for investment only and not with a view to or for sale in connection with any distribution thereof, and appropriate legends were placed on the share certificates issued in these transactions. All recipients had adequate access, through their relationships with us, to information about us. The sales of these securities were made without any general solicitation or advertising.

Item 16. Exhibits and Financial Statement Schedules.

- (a) Exhibits.

See the Exhibit Index on the page immediately preceding the signature page for a list of exhibits filed as part of this registration statement on Form S-1, which Exhibit Index is incorporated herein by reference.

- (b) Financial Statement Schedules.

All financial statement schedules are omitted because the information required to be set forth therein is not applicable or is shown in the consolidated financial statements or the notes thereto.

Item 17. Undertakings.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers, and controlling persons of the registrant under the foregoing provisions or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer, or controlling person of the registrant in the successful defense of any action, suit, or proceeding) is asserted by such director, officer, or controlling person in connection with the securities being registered, the registrant will,

[Table of Contents](#)

unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

The undersigned registrant hereby undertakes that:

- (1) For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this registration statement in reliance on Rule 430A and contained in a form of prospectus filed by the registrant under Rule 424(b)(1) or (4) or 497(h) under the Securities Act will be deemed to be part of this registration statement as of the time it was declared effective.
- (2) For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus will be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time will be deemed to be the initial bona fide offering thereof.

EXHIBIT INDEX

<u>Exhibit Number</u>	<u>Description</u>
1.1	Form of Underwriting Agreement.
3.1*	Twelfth Amended and Restated Certificate of Incorporation of the Registrant, as currently in effect.
3.2*	Form of Amended and Restated Certificate of Incorporation of the Registrant, to be in effect on the closing of the offering.
3.3*	Amended and Restated Bylaws of the Registrant, as currently in effect.
3.4*	Form of Amended and Restated Bylaws of the Registrant, to be in effect on the closing of the offering.
4.1	Form of Class A Common Stock Certificate.
4.2*	Warrant to Purchase Class A Common Stock of the Registrant dated November 17, 2021 (included in Exhibit 10.16).
4.3*	Warrant to Purchase Class A Common Stock of the Registrant dated December 8, 2023 for Allen & Company LLC.
5.1	Opinion of Cooley LLP.
10.1*	Twelfth Amended and Restated Investor Rights Agreement, dated April 30, 2024.
10.2+*	The Registrant's Third Amended and Restated 2015 Stock Plan, as amended.
10.3+*	Forms of Grant Notices and Award Agreements under the Registrant's Third Amended and Restated 2015 Stock Plan, as amended.
10.4+	The Registrant's 2024 Equity Incentive Plan.
10.5+*	Forms of Grant Notice, Stock Option Agreement and Notice of Exercise under the Registrant's 2024 Equity Incentive Plan.
10.6+*	Forms of Restricted Stock Unit Grant Notice and Award Agreement under the Registrant's 2024 Equity Incentive Plan.
10.7+*	Form of Indemnification Agreement entered into by and between the Registrant and each director and executive officer.
10.8+*	Employment Agreement, by and between the Registrant and Eric Lefkofsky, dated February 1, 2024.
10.9+*	Employment Agreement, by and between the Registrant and Erik Phelps, dated January 1, 2023.
10.10+*	Employment Agreement, by and between the Registrant and Ryan Fukushima, dated January 1, 2023.
10.11+*	Employment Agreement, by and between the Registrant and James Rogers, dated January 1, 2023.
10.12#*	Agreement of Lease, by and between the Registrant and EOC 600 West Chicago Property LLC, dated January 18, 2018, as amended.
10.13†*	Supply Agreement, by and between the Registrant and Illumina, Inc., dated June 29, 2021.
10.14†*	Amended and Restated Convertible Promissory Note, by and between the Registrant and Google LLC, dated November 19, 2020.
10.15†	Amended and Restated Master Agreement, by and between the Registrant and Pathos AI, Inc., dated February 12, 2024.

Table of Contents

<u>Exhibit Number</u>	<u>Description</u>
10.16†*	Master Services Agreement, by and between the Registrant and AstraZeneca AB, dated November 17, 2021.
10.17+*	The Registrant's 2024 Employee Stock Purchase Plan.
10.18†*	Strategic Collaboration Agreement, by and between the Registrant and Glaxosmithkline LLC, dated August 1, 2022.
10.19#*	Credit Agreement, by and among the Registrant, the lenders party thereto, Ares Capital Corporation and Ares Capital Management LLC, dated September 22, 2022.
10.20#*	Limited Waiver and First Amendment to Credit Agreement, by and among the Registrant, the loan party signatories and lenders party thereto, and Ares Capital Corporation as administrative agent, dated April 25, 2023.
10.21#*	Second Amendment to Credit Agreement, by and among the Registrant, the loan party signatories and lenders party thereto, and Ares Capital Corporation as administrative agent, dated October 11, 2023.
10.22†*	Master Agreement, by and between the Registrant and Recursion Pharmaceuticals, Inc., dated November 3, 2023.
10.23+*	Employment Agreement, by and between the Registrant and Andy Polovin, dated January 1, 2023.
10.24†*	Amendment to Master Services Agreement, by and between Registrant and AstraZeneca AB, dated October 29, 2022.
10.25†*	Second Amendment to Master Services Agreement, by and between Registrant and AstraZeneca UK Ltd, dated February 21, 2023.
10.26†*	Third Amendment to Master Services Agreement, by and between Registrant and AstraZeneca AB, dated December 18, 2023.
10.27†	Joint Venture Agreement, by and among Softbank Group Corporation, Softbank Group Japan Corporation, the Registrant and Pegasos Corp., dated May 18, 2024.
10.28†	Data License Agreement by and between the Registrant and Pegasos Corp., dated May 18, 2024.
10.29†	Intellectual Property License Agreement, by and between the Registrant and Pegasos Corp., dated May 18, 2024.
10.30†	Amendment No. 1 to Strategic Collaboration Agreement, by and between the Registrant and GlaxoSmithKline LLC, dated May 20, 2024.
21.1	List of Subsidiaries of the Registrant.
23.1	Consent of PricewaterhouseCoopers, LLP, independent registered public accounting firm.
23.2	Consent of Cooley LLP (included in Exhibit 5.1).
24.1*	Power of Attorney (included on the signature page of the initial filing of this registration statement).
107	Filing Fee Table.

* Previously filed.

+ Indicates management contract or compensatory plan.

† Certain portions of this exhibit (indicated by asterisks) have been omitted because they are not material and are the type that the registrant treats as private or confidential.

Certain schedules and exhibits to this exhibit have been omitted pursuant to Item 601(a)(5) of Regulation S-K. A copy of any omitted schedule and/or exhibit will be furnished to the SEC upon request.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Chicago, Illinois, on this 5th day of June, 2024.

TEMPUS AI, INC.

By: /s/ Eric Lefkofsky
Name: Eric Lefkofsky
Title: Chief Executive Officer, Founder and Chairman

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Eric Lefkofsky</u> Eric Lefkofsky	Chief Executive Officer, Founder and Chairman (<i>Principal Executive Officer</i>)	June 5, 2024
* <u>James Rogers</u>	Chief Financial Officer (<i>Principal Financial Officer</i>)	June 5, 2024
* <u>Ryan Bartolucci</u>	Chief Accounting Officer (<i>Principal Accounting Officer</i>)	June 5, 2024
* <u>Peter J. Barris</u>	Director	June 5, 2024
* <u>Eric D. Belcher</u>	Director	June 5, 2024
* <u>Jennifer A. Doudna, Ph.D.</u>	Director	June 5, 2024

[Table of Contents](#)

<u>Signature</u>	<u>Title</u>	<u>Date</u>
* _____ David R. Epstein	Director	June 5, 2024
* _____ Wayne A.I. Frederick, M.D.	Director	June 5, 2024
* _____ Robert Ghenchev	Director	June 5, 2024
* _____ Scott Gottlieb, M.D.	Director	June 5, 2024
* _____ Theodore J. Leonsis	Director	June 5, 2024
* _____ Nadja West, M.D.	Director	June 5, 2024
*By: /s/ Eric Lefkofsky _____ Eric Lefkofsky Attorney-in-Fact		

[•] Shares

TEMPUS AI, INC.

CLASS A COMMON STOCK, PAR VALUE \$0.0001 PER SHARE

UNDERWRITING AGREEMENT

June [•], 2024

Morgan Stanley & Co. LLC
J.P. Morgan Securities LLC
Allen & Company LLC

As Representatives of the several Underwriters named in Schedule I hereto

c/o Morgan Stanley & Co. LLC
1585 Broadway
New York, New York 10036

c/o J.P. Morgan Securities LLC
383 Madison Avenue
New York, New York 10179

c/o Allen & Company LLC
711 Fifth Avenue
New York, New York 10022

Ladies and Gentlemen:

Tempus AI, Inc., a Delaware corporation (the “**Company**”), proposes to issue and sell to the several underwriters named in Schedule I hereto (the “**Underwriters**”) an aggregate of [●] shares of its Class A common stock, par value \$0.0001 per share (the “**Firm Shares**”).

The Company also proposes to issue and sell to the several Underwriters not more than an additional [●] shares of its Class A common stock, par value \$0.0001 per share (the “**Additional Shares**”), if and to the extent that Morgan Stanley & Co. LLC, J.P. Morgan Securities LLC and Allen & Company LLC, as representatives of the several Underwriters (the “**Representatives**”), shall have determined to exercise, on behalf of the Underwriters, the right to purchase such shares of Class A common stock granted to the Underwriters in Section 2 hereof. The Firm Shares and the Additional Shares are hereinafter collectively referred to as the “**Shares**.” The shares of Class A common stock and Class B common stock, each par value \$0.0001 per share, of the Company to be outstanding after giving effect to the sales contemplated hereby are hereinafter referred to as the “**Common Stock**.”

The Company has filed with the Securities and Exchange Commission (the “**Commission**”) a registration statement on Form S-1 (File No. 333-279558), including a preliminary prospectus, relating to the Shares. The registration statement as amended at the time it became effective, including the information (if any) deemed to be part of the

registration statement at the time of effectiveness pursuant to Rule 430A under the Securities Act of 1933, as amended (the “**Securities Act**”), is hereinafter referred to as the “**Registration Statement**”; the prospectus in the form first used to confirm sales of Shares (or in the form first made available to the Underwriters by the Company to meet requests of purchasers pursuant to Rule 173 under the Securities Act) is hereinafter referred to as the “**Prospectus**.” If the Company has filed an abbreviated registration statement to register additional shares of Common Stock pursuant to Rule 462(b) under the Securities Act (a “**Rule 462 Registration Statement**”), then any reference herein to the term “**Registration Statement**” shall be deemed to include such Rule 462 Registration Statement.

For purposes of this Underwriting Agreement (this “**Agreement**”), “**free writing prospectus**” has the meaning set forth in Rule 405 under the Securities Act, “**preliminary prospectus**” shall mean each prospectus used prior to the effectiveness of the Registration Statement, and each prospectus that omitted information pursuant to Rule 430A under the Securities Act that was used after such effectiveness and prior to the execution and delivery of this Agreement, “**Time of Sale Prospectus**” means the preliminary prospectus contained in the Registration Statement at the time of its effectiveness together with the documents and pricing information set forth in Schedule II hereto, and “**broadly available road show**” means a “bona fide electronic road show” as defined in Rule 433(h)(5) under the Securities Act that has been made available without restriction to any person. As used herein, the terms “Registration Statement,” “preliminary prospectus,” “Time of Sale Prospectus” and “Prospectus” shall include the documents, if any, incorporated by reference therein as of the date hereof.

1. *Representations and Warranties.* The Company represents and warrants to and agrees with each of the Underwriters that:

(a) The Registration Statement has become effective; no stop order suspending the effectiveness of the Registration Statement is in effect, and no proceedings for such purpose or pursuant to Section 8A under the Securities Act are pending before or, to the Company’s knowledge, threatened by the Commission.

(b) (i) The Registration Statement, when it became effective, did not contain and, as amended or supplemented, if applicable, as of the date of such amendment or supplement, will not contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading, (ii) the Registration Statement and the Prospectus comply and, as amended or supplemented, if applicable, as of the date of such amendment or supplement, will comply in all material respects with the applicable requirements of the Securities Act and the applicable rules and regulations of the Commission thereunder, (iii) the Time of Sale Prospectus does not, and at the time of each sale of the Shares in connection with the offering when the Prospectus is not yet available to prospective purchasers and at the Closing Date (as defined in Section 4), the Time of Sale Prospectus, as then amended or supplemented by the Company, if applicable, will not, as of the date

of such amendment or supplement, contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading, (iv) each broadly available road show, if any, when considered together with the Time of Sale Prospectus, does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading and (v) the Prospectus, as of its date, does not contain and, as amended or supplemented, if applicable, as of the date of such amendment or supplement and as of the Closing Date (as defined in Section 4) and any Option Closing Date (as defined in Section 2) will not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading, except that the representations and warranties set forth in this paragraph do not apply to statements or omissions in the Registration Statement, the Time of Sale Prospectus or the Prospectus based upon information relating to any Underwriter furnished to the Company in writing by such Underwriter through the Representatives expressly for use therein.

(c) The Company is not an “ineligible issuer” in connection with the offering pursuant to Rules 164, 405 and 433 under the Securities Act. Any free writing prospectus that the Company is required to file pursuant to Rule 433(d) under the Securities Act has been, or will be, filed with the Commission in accordance with the applicable requirements of the Securities Act and the applicable rules and regulations of the Commission thereunder. Each free writing prospectus that the Company has filed, or is required to file, pursuant to Rule 433(d) under the Securities Act or that was prepared by or on behalf of or used or referred to by the Company complies or, if filed after the date of this Agreement, will comply as of the date of such filing, in all material respects with the applicable requirements of the Securities Act and the applicable rules and regulations of the Commission thereunder. Except for the free writing prospectuses, if any, identified in Schedule II hereto, and electronic road shows, if any, each furnished to the Representatives before first use, the Company has not prepared, used or referred to, and will not, without the Representatives’ prior consent, prepare, use or refer to, any free writing prospectus.

(d) The Company has been duly incorporated, is validly existing as a corporation in good standing under the laws of the jurisdiction of its incorporation, has the corporate power and authority to own or lease its property and to conduct its business as described in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus and is duly qualified to transact business and is in good standing in each jurisdiction (to the extent the concept of good standing is applicable in such jurisdiction) in which the conduct of its business or its ownership or leasing of property requires such qualification, except to the extent that the failure to be so qualified or be in good standing (to the extent the concept of good standing is applicable in such jurisdiction) would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole.

(e) Each subsidiary (for the avoidance of doubt, all references in this Agreement to a “subsidiary” of the Company refers to a subsidiary of the Company that is required to be consolidated with the Company in the Company’s audited consolidated financial statements in accordance with generally accepted accounting principles in the United States (“U.S. GAAP”)) of the Company has been duly incorporated, organized or formed, is validly existing as a corporation or other business entity in good standing under the laws of the jurisdiction of its incorporation, organization or formation (to the extent that such concepts are applicable in such jurisdiction), has the corporate or other business entity power and authority to own or lease its property and to conduct its business as described in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus and is duly qualified to transact business and is in good standing (to the extent the concept of good standing is applicable in such jurisdiction) in each jurisdiction in which the conduct of its business or its ownership or leasing of property requires such qualification, except to the extent that the failure to be so qualified or be in good standing (to the extent the concept of good standing is applicable in such jurisdiction) would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole; all of the issued and outstanding shares of capital stock or other equity interests of each subsidiary of the Company have been duly and validly authorized and issued, are fully paid and non-assessable (to the extent such concepts are applicable in such jurisdiction) and, to the extent directly or indirectly owned by the Company, are owned free and clear of all liens, encumbrances, equities or claims.

(f) This Agreement has been duly authorized, executed and delivered by the Company.

(g) The authorized capital stock of the Company conforms as to legal matters to the description thereof contained under the headings “Capitalization” and “Description of Capital Stock” in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus as of the dates set forth therein.

(h) The shares of Common Stock outstanding prior to the issuance of the Shares have been duly authorized and are validly issued, fully paid and non-assessable.

(i) The Shares have been duly authorized and, when issued, delivered and paid for in accordance with the terms of this Agreement, will be validly issued, fully paid and non-assessable, and the issuance of the Shares will not be subject to any preemptive or similar rights that have not been validly waived.

(j) The execution and delivery by the Company of, and the performance by the Company of its obligations under, this Agreement will not contravene any provision of (i) applicable law, (ii) the certificate of incorporation or by-laws of the Company, (iii) any agreement or other instrument binding upon the Company or any of its subsidiaries that is material to the Company and its subsidiaries, taken as a whole, or (iv) any judgment, order or decree of any governmental body, agency or court having jurisdiction over the Company or any subsidiary, except in the case of clauses (i), (iii) and (iv) as would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole; and no consent, approval, authorization or order of, or qualification with, any governmental body, agency or court is required for the performance by the Company of its obligations under this Agreement, except such as have been obtained or waived or as may be required by the securities or Blue Sky laws of the various states or the rules and regulations of the Financial Industry Regulatory Authority (“**FINRA**”) in connection with the offer and sale of the Shares.

(k) There has not occurred any material adverse change, or any development involving a prospective material adverse change, in the condition, financial or otherwise, or in the earnings, business or operations of the Company and its subsidiaries, taken as a whole, from that set forth in the Time of Sale Prospectus.

(l) There are no legal or governmental proceedings pending or, to the knowledge of the Company, threatened to which the Company or any of its subsidiaries is a party or to which any of the properties of the Company or any of its subsidiaries is subject (i) other than proceedings accurately described in all material respects in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus and proceedings that would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole, or on the power or ability of the Company to perform its obligations under this Agreement or to consummate the transactions contemplated by each of the Registration Statement, the Time of Sale Prospectus and the Prospectus or (ii) that are required to be described in the Registration Statement, the Time of Sale Prospectus or the Prospectus and are not so described in all material respects; and there are no statutes, regulations, contracts or other documents to which the Company or its subsidiaries are subject or bound that are required to be described in the Registration Statement, the Time of Sale Prospectus or the Prospectus or to be filed as exhibits to the Registration Statement that are not described in all material respects or filed as required.

(m) Each preliminary prospectus filed as part of the Registration Statement as originally filed or as part of any amendment thereto, or filed pursuant to Rule 424 under the Securities Act, complied when so filed in all material respects with the applicable requirements of the Securities Act and the applicable rules and regulations of the Commission thereunder.

(n) The Company is not, and after giving effect to the offering and sale of the Shares and the application of the proceeds thereof as described in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus will not be, required to register as an “investment company” as such term is defined in the Investment Company Act of 1940, as amended.

(o) The Company and its subsidiaries, taken as a whole, (i) are in compliance with any and all applicable foreign, federal, state and local laws and regulations relating to the protection of human health and safety, the environment or hazardous or toxic substances or wastes, pollutants or contaminants (collectively, “**Environmental Laws**”), (ii) have received all permits, licenses or other approvals required of them under applicable Environmental Laws to conduct their respective businesses and (iii) are in compliance with all terms and conditions of any such permit, license or approval, except where such noncompliance with Environmental Laws, failure to receive required permits, licenses or other approvals or failure to comply with the terms and conditions of such permits, licenses or approvals would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole.

(p) There are no costs or liabilities associated with Environmental Laws (including, without limitation, any capital or operating expenditures required for clean-up, closure of properties or compliance with Environmental Laws or any permit, license or approval, any related constraints on operating activities and any potential liabilities to third parties) which would, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole.

(q) Except as have been waived or complied with in connection with the issuance and sale of the Shares contemplated hereby or as described in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus, there are no contracts, agreements or understandings between the Company and any person granting such person the right to require the Company to file a registration statement under the Securities Act with respect to any securities of the Company or to require the Company to include such securities with the Shares registered pursuant to the Registration Statement.

(r) (i) None of the Company or any of its subsidiaries or Controlled Affiliates, or any director or officer thereof, or, to the Company’s knowledge, any employee, agent or representative while acting on behalf of the Company or of any of its subsidiaries or Controlled Affiliates, has taken or will take any action in furtherance of an offer, payment, promise to pay, or authorization or approval of the payment, giving or receipt of money, property, gifts or anything else of value, directly or indirectly, to any government official (including any officer or employee of a government or government-owned or controlled entity or of a public international organization, or any person acting in an official capacity for or on behalf of any of the foregoing, or any political party or party official or candidate for political office) (“**Government Official**”) in order to influence official action, or to any person in violation of any applicable anti-corruption

laws; (ii) the Company and each of its subsidiaries and Controlled Affiliates have conducted their businesses in compliance with applicable anti-corruption laws and have instituted and maintained and will continue to maintain policies and procedures reasonably designed to promote and achieve compliance with such laws and with the representations and warranties contained herein; and (iii) neither the Company nor any of its subsidiaries will use, directly or indirectly, the proceeds of the offering in furtherance of an offer, payment, promise to pay, or authorization of the payment or giving of money, or anything else of value, to any person in violation of any applicable anti-corruption laws. A “**Controlled Affiliate**” means any entity controlled by the Company.

(s) The operations of the Company and each of its subsidiaries are and have been conducted at all times in material compliance with all applicable financial recordkeeping and reporting requirements, including to the extent applicable those of the Bank Secrecy Act, as amended by Title III of the Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act of 2001 (USA PATRIOT Act), and the applicable anti-money laundering statutes of jurisdictions where the Company and each of its subsidiaries conduct business, the rules and regulations thereunder and any related or similar rules, regulations or guidelines, issued, administered or enforced by any governmental agency having jurisdiction over the Company or any of its subsidiaries (collectively, the “**Anti-Money Laundering Laws**”), and no action, suit or proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company or any of its subsidiaries with respect to the Anti-Money Laundering Laws is pending or, to the best knowledge of the Company, threatened.

(t) (i) None of the Company, any of its subsidiaries, or any director or officer thereof, or, to the Company’s knowledge, any employee, agent, affiliate or representative of the Company or any of its subsidiaries, is an individual or entity (“**Person**”) that is, or is owned or controlled by one or more Persons that are:

(A) the subject of any sanctions administered or enforced by the U.S. Department of the Treasury’s Office of Foreign Assets Control, the United Nations Security Council, the European Union, His Majesty’s Treasury, or other relevant sanctions authority (collectively, “**Sanctions**”), or

(B) located, organized or resident in a country or territory that is the subject of Sanctions (including, without limitation, the so-called Donetsk People’s Republic, the so-called Luhansk People’s Republic or any other Covered Region of Ukraine identified pursuant to Executive Order 14065, the Crimea region of Ukraine, non-government controlled areas of the Kherson and Zaporizhzhia regions of Ukraine, Cuba, Iran, North Korea and Syria).

(ii) The Company will not, directly or indirectly, use the proceeds of the offering, or lend, contribute or otherwise make available such proceeds to any subsidiary, joint venture partner or other Person:

(A) to fund or facilitate any activities or business of or with any Person or in any country or territory that, at the time of such funding or facilitation, is the subject of Sanctions; or

(B) in any other manner that will result in a violation of Sanctions by any Person (including any Person participating in the offering, whether as underwriter, advisor, investor or otherwise).

(iii) For the past five years, the Company and each of its subsidiaries have not knowingly engaged in, are not now knowingly engaged in, and will not engage in, any dealings or transactions with any Person, or in any country or territory, that at the time of the dealing or transaction is or was the subject of Sanctions.

(u) Subsequent to the respective dates as of which information is given in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus, (i) the Company and its subsidiaries, taken as a whole, have not incurred any material liability or obligation, direct or contingent, nor entered into any material transaction; (ii) the Company has not purchased any of its outstanding capital stock (other than through the exercise or settlement of equity awards or grants of equity awards or forfeiture of equity awards outstanding as of such respective dates as of which information is given in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus, in each case granted pursuant to the equity compensation plans described in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus), nor declared, paid or otherwise made any dividend or distribution of any kind on its capital stock (other than ordinary and customary dividends and such other dividends or distributions disclosed in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus); and (iii) there has not been any material change in the capital stock, short-term debt or long-term debt of the Company and its subsidiaries, taken as a whole, except in each case as described in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus.

(v) The Company and its subsidiaries do not own any real property. The Company and each of its subsidiaries have good and marketable title to all personal property owned by them which is material to the business of the Company and its subsidiaries, taken as a whole, in each case free and clear of all liens, encumbrances and defects except such as do not materially affect the value of such property and do not materially interfere with the use made and proposed to be made of such property by the Company and its subsidiaries; and any real property and buildings held under lease by the Company and its subsidiaries are held by them under valid, subsisting and enforceable leases with such exceptions

as are not material and do not materially interfere with the use made and proposed to be made of such property and buildings by the Company and its subsidiaries, in each case except as described in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus.

(w) Except as would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole, (i) the Company and its subsidiaries own or have a valid license to all patents, inventions, copyrights, know how (including trade secrets and other unpatented and/or unpatentable proprietary or confidential information, systems or procedures), trademarks, service marks, trade names and other intellectual property rights (including all registrations and applications for registration of, and all goodwill associated with, any of the foregoing) (collectively, “**Intellectual Property Rights**”) used in or reasonably necessary for or material to the conduct of their businesses as now conducted by them, and as proposed to be conducted in the Registration Statement, the Time of Sale Prospectus or the Prospectus; (ii) the Company or its subsidiaries, as applicable, exclusively owns all right, title and interest in and to all Intellectual Property Rights owned by or registered in the name of the Company or its subsidiaries; (iii) Intellectual Property Rights owned by or registered in the name of the Company and its subsidiaries and, to the Company’s knowledge, the Intellectual Property Rights licensed to the Company and its subsidiaries, are valid, subsisting and enforceable, and there is no pending or, to the Company’s knowledge, threatened action, suit, proceeding or claim by others challenging the validity, scope or enforceability of, or any rights of the Company or any of its subsidiaries in, any such Intellectual Property Rights; (iv) except as set forth in the Registration Statement, the Time of Sale Prospectus and the Prospectus, neither the Company nor any of its subsidiaries has received any notice alleging any infringement, misappropriation or other violation of Intellectual Property Rights which, singly or in the aggregate, if the subject of an unfavorable decision, ruling or finding, would have a material adverse effect on the Company and its subsidiaries, taken as a whole and there is no pending or, to the knowledge of the Company and its subsidiaries, threatened action, suit, proceeding or claim by others that the Company or its subsidiaries infringe, misappropriate or otherwise violate any Intellectual Property Rights; (v) to the Company’s knowledge, no third party is infringing, misappropriating or otherwise violating, or has infringed, misappropriated or otherwise violated, any Intellectual Property Rights owned or controlled by the Company or any of its subsidiaries; (vi) to the Company’s knowledge, neither the Company nor any of its subsidiaries infringes, misappropriates or otherwise violates, or has infringed, misappropriated or otherwise violated, any Intellectual Property Rights; (vii) all employees or contractors engaged in the development of Intellectual Property Rights on behalf of the Company or any subsidiary of the Company have executed an invention assignment agreement whereby such employees or contractors presently assign all of their right, title and interest in and to such Intellectual Property Rights to the Company or the applicable subsidiary, and to the Company’s knowledge no such agreement has been breached or violated; (viii) the Company and its subsidiaries use, and have used, commercially reasonable efforts in accordance with

customary industry practice to appropriately maintain the confidentiality of all information intended to be maintained as a trade secret, including by executing appropriate non-disclosure, confidentiality and assignment invention agreements with each of its employees and relevant consultants, and, to the knowledge of the Company and its subsidiaries, no such agreement has been breached or violated; and (ix) each of the Company and its subsidiaries and, to the knowledge of the Company and its subsidiaries, all counterparties to any contracts pursuant to which any Intellectual Property Rights are licensed to the Company or any of its subsidiaries are in material compliance with all such contracts and all such contracts are in full force and effect.

(x) (i) The Company and its subsidiaries use and have used any and all software and other materials distributed under a “free,” “open source,” or similar licensing model (including but not limited to the MIT License, Apache License, GNU General Public License, GNU Lesser General Public License and GNU Affero General Public License) (“**Open Source Software**”) in compliance with all license terms applicable to such Open Source Software, except where the failure to comply would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole; and (ii) neither the Company nor any of its subsidiaries uses or distributes or has used or distributed any Open Source Software in any manner that requires or has required (A) the Company or any of its subsidiaries to permit reverse engineering of any software code or other technology owned by the Company or any of its subsidiaries or (B) any software code or other technology owned by the Company or any of its subsidiaries to be (1) disclosed or distributed in source code form, (2) licensed for the purpose of making derivative works or (3) redistributed at no charge, except as would not, singly or in the aggregate, have a material adverse effect on the Company and its subsidiaries, taken as a whole.

(y) (i) The Company and each of its subsidiaries have complied and are presently in compliance in all material respects with all internal and external privacy policies, contractual obligations, contractually mandated industry standards, applicable laws, statutes, judgments, orders, rules and regulations of any court or arbitrator or other governmental or regulatory authority and any other legal obligations, in each case, relating to the collection, use, transfer, import, export, storage, protection, disposal and disclosure by the Company or any of its subsidiaries of personal, personally identifiable, household, sensitive, confidential or regulated data (“**Data Security Obligations**”, and such data, “**Data**”); (ii) the Company and its subsidiaries have not received any notification of or complaint regarding and is unaware of any other facts that, singly or in the aggregate, would reasonably indicate non-compliance with any Data Security Obligation, except as would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries taken as a whole; (iii) there is no action, suit, proceeding, investigation or enforcement action by or before any court or governmental agency, authority or body pending or threatened alleging non-compliance with any Data Security Obligation; (iv) each of the Company and its subsidiaries, as applicable, has provided notice of its privacy policy on its

website, which policy contains accurate notice of its then-current privacy practices relating to its subject matter in all material respect and such privacy policies do not contain any material omissions of the Company's or its subsidiaries', as applicable, current privacy practices; and (v) except as would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries taken as a whole, the execution, delivery and performance of this Agreement or any other agreement referred to in this Agreement will not result in a breach or violation of any Data Security Obligation.

(z) The Company and its subsidiaries' information technology assets and equipment, computers, technology systems and other systems, networks, hardware, software, websites, applications, and databases (collectively, "**IT Systems**") operate and perform in all material respects as required in connection with the operation of the business of the Company and its subsidiaries as currently conducted, free and clear of all material bugs, errors, defects, Trojan horses, time bombs, malware and other corruptants. The Company and each of its subsidiaries have taken, in all material respects, technical and organizational measures necessary to protect the IT Systems and Data used in connection with the operation of the Company's and its subsidiaries' businesses. Without limiting the foregoing, the Company and its subsidiaries have used reasonable efforts to establish and maintain, and have established, maintained, implemented and complied with, reasonable information technology, information security, cyber security and data protection controls, policies and procedures, including oversight, access controls, encryption, technological and physical safeguards and business continuity/disaster recovery and security plans that are designed to protect against and prevent breach, destruction, loss, unauthorized distribution, use, access, disablement, misappropriation or modification, or other compromise or misuse of or relating to any information technology system or Data used in connection with the operation of the Company's and its subsidiaries' businesses ("**Breach**") and to maintain the integrity, continuous operation, redundancy and security of all IT Systems and Data used in connection with the operation of the Company or its subsidiaries. Except as would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries taken as a whole, there has been no such Breach, and the Company and its subsidiaries have not been notified of and have no knowledge of any event or condition that would reasonably be expected to result in, any such Breach.

(aa) Except as set forth in the Registration Statement, the Time of Sale Prospectus and the Prospectus, no material labor dispute with the employees of the Company or any of its subsidiaries exists, or, to the knowledge of the Company, is imminent; and the Company is not aware of any existing, threatened or imminent labor disturbance by the employees of any of its principal suppliers, manufacturers or contractors that would, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole.

(bb) The Company and each of its subsidiaries are insured by insurers of recognized financial responsibility against such losses and risks and in such amounts as are, in the reasonable judgment of the Company, prudent and customary in the businesses in which they are engaged taken as a whole; neither the Company nor any of its subsidiaries has been refused any insurance coverage sought or applied for; and neither the Company nor any of its subsidiaries has any reason to believe that it will not be able to renew its existing insurance coverage as and when such coverage expires or to obtain similar coverage from similar insurers as may be necessary to continue its business at a cost that would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole.

(cc) The Company and each of its subsidiaries possess all licenses, certificates, clearances, exemptions, authorizations and permits issued by the appropriate federal, state or foreign regulatory authorities necessary to conduct their respective businesses as described in the Registration Statement, the Time of Sale Prospectus and the Prospectus (“**Regulatory Authorizations**”), including, without limitation, from the U.S. Food and Drug Administration (“**FDA**”), the Department of Health and Human Services, the Centers for Medicare & Medicaid Services, and equivalent foreign regulatory authorities (collectively, the “**Applicable Regulatory Authorities**”), except where the failure to obtain such certificates, authorizations and permits would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole, and, except as set forth in the Registration Statement, the Time of Sale Prospectus and the Prospectus, neither the Company nor any of its subsidiaries has received (i) any FDA Form 483, written notice of adverse finding, warning letter, untitled letter or other written notice from any Regulatory Authority, court or arbitrator alleging or asserting non-compliance with any Health Care Laws or (ii) any notice of proceedings relating to the revocation or modification of any Regulatory Authorizations which, singly or in the aggregate, if the subject of an unfavorable decision, ruling or finding, would reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole. The term “**Health Care Laws**” means Title XVIII of the Social Security Act, 42 U.S.C. §§ 1395-1395hhh (the Medicare statute); Title XIX of the Social Security Act, 42 U.S.C. §§ 1396-1396v (the Medicaid statute); Section 1877 of the Social Security Act (the Stark Law), 42 U.S.C. 1395(nn); the Federal Anti-Kickback Statute, 42 U.S.C. § 1320a-7b(b); the civil False Claims Act, 31 U.S.C. §§ 3729 et seq.; the criminal False Claims Act, 42 U.S.C. 1320a-7b(a); any criminal laws relating to health care fraud and abuse, including, but not limited to, 18 U.S.C. Sections 286 and 287 and the health care fraud criminal provisions under the Health Insurance Portability and Accountability Act of 1996, 42 U.S.C. §§ 1320d et seq., (“**HIPAA**”); the Civil Monetary Penalties Law, 42 U.S.C. §§ 1320a-7a and 1320a-7b; the Eliminating Kickbacks in Recovery Act of 2018, 18 U.S.C. § 200; the Physician Payments Sunshine Act, 42 U.S.C. § 1320a-7h; the Exclusion Statute, 42 U.S.C. § 1320a-7; HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, 42 U.S.C. §§ 17921 et seq.; the Federal Food, Drug, and

Cosmetic Act, 21 U.S.C. §§ 301 et seq.; the Public Health Service Act, 42 U.S.C. §§ 201 et seq.; the regulations promulgated pursuant to such laws; and any similar federal, state and local laws and regulations.

(dd) The consolidated financial statements included in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus, together with the related schedules and notes thereto, comply as to form in all material respects with the applicable accounting requirements of the Securities Act and present fairly in all material respects the consolidated financial position of the Company and its consolidated subsidiaries as of the dates shown and its results of operations and cash flows for the periods shown, and such financial statements have been prepared in conformity with U.S. GAAP applied on a consistent basis throughout the periods covered thereby except for any normal year-end adjustments in the Company's quarterly financial statements. The summary consolidated financial data included in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus has been derived from the accounting records of the Company and its consolidated subsidiaries and presents fairly in all material respects the information shown thereby. The statistical, industry-related and market-related data included in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus are based on or derived from sources which the Company reasonably and in good faith believes are reliable and accurate and such data is consistent with the sources from which they are derived, in each case in all material respects.

(ee) PricewaterhouseCoopers LLP, who have certified certain financial statements of the Company and its subsidiaries and delivered its report with respect to the audited consolidated financial statements and schedules filed with the Commission as part of the Registration Statement and included in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus, is an independent registered public accounting firm with respect to the Company within the meaning of the Securities Act and the applicable rules and regulations thereunder adopted by the Commission and the Public Company Accounting Oversight Board (United States).

(ff) The Company and its subsidiaries, taken as a whole, maintain a system of internal accounting controls sufficient to comply with the requirements of the Exchange Act and have been designed by, or under the supervision of, their respective principal executive and principal financial officers, or persons performing similar functions, to provide reasonable assurance that (i) transactions are executed in accordance with management's general or specific authorizations; (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with U.S. GAAP and to maintain asset accountability; (iii) access to assets is permitted only in accordance with management's general or specific authorization; and (iv) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. Since the end of the Company's most recent audited fiscal year, there has been (i) no material weakness in the Company's

internal control over financial reporting as defined in Rule 13(a) - 15(f) under the Exchange Act (whether or not remediated) and (ii) no change in the Company's internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting, in each case except as described in each of the Registration Statement, the Time of Sale Prospectus and the Prospectus.

(gg) Except as described in the Registration Statement, the Time of Sale Prospectus and the Prospectus, the Company has not sold, issued or distributed any shares of Common Stock during the six-month period preceding the date hereof, including any sales pursuant to Rule 144A under, or Regulation D or S of, the Securities Act, other than shares issued pursuant to employee benefit plans, qualified stock option plans or other employee compensation plans or pursuant to outstanding options, rights or warrants.

(hh) The Company and each of its subsidiaries have filed all federal, state, local and foreign tax returns required to be filed by them through the date of this Agreement or have requested extensions thereof (except where the failure to file would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole) and have paid all taxes required to be paid thereon (except for cases in which the failure to file or pay would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole, or, except as currently being contested in good faith and for which reserves required by U.S. GAAP have been created in the financial statements of the Company), and no tax deficiency has been determined adversely to the Company or any of its subsidiaries which has not been fully paid or otherwise resolved or which, singly or in the aggregate, has had (nor does the Company nor any of its subsidiaries have any notice or knowledge of any tax deficiency which could reasonably be expected to be determined adversely to the Company or its subsidiaries and which could reasonably be expected to have) a material adverse effect on the Company and its subsidiaries, taken as a whole.

(ii) From the time of initial confidential submission of the Registration Statement to the Commission through the date hereof, the Company has been and is an "emerging growth company," as defined in Section 2(a) of the Securities Act (an "**Emerging Growth Company**").

(jj) The Company (i) has not alone engaged in any Testing-the-Waters Communication with any person other than Testing-the-Waters Communications with the consent of the Representatives with entities that are reasonably believed to be "qualified institutional buyers" within the meaning of Rule 144A under the Securities Act or institutions that are reasonably believed to be "accredited investors" within the meaning of Rule 501 under the Securities Act and (ii) has not authorized anyone other than the Representatives to engage in Testing-the-Waters Communications. The Company reconfirms that the Representatives have been authorized to act on its behalf in undertaking Testing-the-Waters

Communications. The Company has not distributed any Testing-the-Waters Communication that is a written communication within the meaning of Rule 405 under the Securities Act (“**Written Testing-the-Waters Communication**”) other than those listed on Schedule III hereto. “**Testing-the-Waters Communication**” means any communication with potential investors undertaken in reliance on Section 5(d) or Rule 163B of the Securities Act.

(kk) As of the time of each sale of the Shares in connection with the offering when the Prospectus is not yet available to prospective purchasers, none of (A) the Time of Sale Prospectus, (B) any free writing prospectus, when considered together with the Time of Sale Prospectus, and (C) any individual Testing-the-Waters Communication, when considered together with the Time of Sale Prospectus, included, includes or will include an untrue statement of a material fact or omitted, omits or will omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading.

(ll) Neither the Company nor any of its subsidiaries is (i) in violation of its respective certificate of incorporation or bylaws; (ii) in default, and no event has occurred that, with notice or lapse of time or both, would constitute such a default, in the due performance or observance of any term, covenant or condition contained in any indenture, mortgage, deed of trust, loan agreement or other agreement or instrument to which the Company or any of its subsidiaries is a party or by which the Company or any of its subsidiaries is bound or to which any of the property or assets of the Company or any of its subsidiaries is subject; or (iii) in violation of any law or statute or any judgment, order, rule or regulation of any court or arbitrator or governmental or regulatory authority having jurisdiction over the Company or any of its subsidiaries, except, in the case of clauses (ii) and (iii) above, for any such default or violation that would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole.

(mm) Except as would not, singly or in the aggregate, reasonably be expected to have a material adverse effect on the Company and its subsidiaries, taken as a whole, (A) each Plan (as defined below) has been maintained in compliance with its terms and the requirements of any applicable statutes, orders, rules and regulations, including but not limited to the Employee Retirement Income Security Act of 1974, as amended (“**ERISA**”) and the Internal Revenue Code of 1986, as amended (the “**Code**”); (B) no non-exempt prohibited transaction, within the meaning of Section 406 of ERISA or Section 4975 of the Code, has occurred with respect to any Plan; (C) for each Plan, no failure to satisfy the minimum funding standards (within the meaning of Section 412 of the Code or Section 302 of ERISA), whether or not waived, has occurred or is reasonably expected to occur; (D) no “reportable event” (within the meaning of Section 4043(c) of ERISA, other than those events as to which notice is waived) has occurred or is reasonably expected to occur; and (E) neither the Company nor any member of the Company’s “Controlled Group” (defined as any organization

which is a member of a controlled group of corporations within the meaning of Section 414 of the Code) has incurred, nor is reasonably expected to incur, any liability under Title IV of ERISA (other than contributions to any Plan or any Multiemployer Plan or premiums to the PBGC, in the ordinary course and without default) in respect of a Plan or a Multiemployer Plan. For purposes of this paragraph, (x) the term “Plan” means an employee benefit plan, within the meaning of Section 3(3) of ERISA, subject to Title IV of ERISA, but excluding any Multiemployer Plan, for which the Company, or any member of its “Controlled Group” has any liability and (y) the term “Multiemployer Plan” means a multiemployer plan within the meaning of Section 4001(a)(3) of ERISA.

(nn) The Company and its subsidiaries, as a whole, have designed a system of “disclosure controls and procedures” (as defined in Rule 13a-15(e) under the Exchange Act) that is designed to comply with the requirements of the Exchange Act within the time period required and has been designed to ensure that material information relating to the Company is made known to the Company’s principal executive officer and principal financial officer by others within the Company or its subsidiaries; and such disclosure controls and procedures are effective.

(oo) Neither the Company nor any of its subsidiaries has any securities rated by any “nationally recognized statistical rating organization,” as such term is defined in Section 3(a)(62) of the Exchange Act.

(pp) The Company has taken all necessary actions to ensure that, upon the effectiveness of the Registration Statement, it will be in compliance in all material respects with all provisions of the Sarbanes-Oxley Act of 2002, as amended, and all rules and regulations promulgated thereunder or implementing the provisions thereof that are then in effect and with which the Company is required to comply as of the effectiveness of the Registration Statement.

(qq) The Company has not taken, directly or indirectly, any action designed to or that would be expected to cause or result in any stabilization or manipulation of the price of the Shares.

2. *Agreements to Sell and Purchase.* The Company hereby agrees to issue and sell to the several Underwriters, and each Underwriter, upon the basis of the representations and warranties herein contained, but subject to the terms and conditions hereinafter stated, agrees, severally and not jointly, to purchase from the Company the respective numbers of Firm Shares set forth in Schedule I hereto opposite its name at \$[●] a share (the “**Purchase Price**”).

On the basis of the representations and warranties contained in this Agreement, and subject to its terms and conditions, the Company agrees to issue and sell to the Underwriters up to [●] Additional Shares, and the Underwriters shall have the right to purchase, severally and not jointly, up to [●] Additional Shares at the Purchase Price, provided, however, that the amount paid by the Underwriters for any Additional Shares

shall be reduced by an amount per share equal to any dividends declared by the Company and payable on the Firm Shares but not payable on such Additional Shares. The Representatives may exercise this right on behalf of the Underwriters in whole or from time to time in part by giving written notice to the Company not later than 30 days after the date of this Agreement. Any exercise notice shall specify the number of Additional Shares to be purchased by the Underwriters and the date on which such shares are to be purchased. Each purchase date must be at least one business day after the written notice is given and may not be earlier than the closing date for the Firm Shares or later than ten business days after the date of such notice. Additional Shares may be purchased as provided in Section 4 hereof solely for the purpose of covering over-allotments made in connection with the offering of the Firm Shares. On each day, if any, that Additional Shares are to be purchased (an “**Option Closing Date**”), each Underwriter agrees, severally and not jointly, to purchase the number of Additional Shares (subject to such adjustments to eliminate fractional shares as the Representatives may determine) that bears the same proportion to the total number of Additional Shares to be purchased on such Option Closing Date as the number of Firm Shares set forth in Schedule I hereto opposite the name of such Underwriter bears to the total number of Firm Shares.

3. *Terms of Public Offering.* The Company is advised by the Representatives that the Underwriters propose to make a public offering of their respective portions of the Shares as soon after the Registration Statement and this Agreement have become effective as in the Representatives’ judgment is advisable. The Company is further advised by the Representatives that the Shares are to be offered to the public initially at \$[●] a share (the “**Public Offering Price**”) and to certain dealers selected by the Representatives at a price that represents a concession not in excess of \$[●] a share under the Public Offering Price, and that any Underwriter may allow, and such dealers may reallow, a concession, not in excess of \$[●] a share, to any Underwriter or to certain other dealers.

4. *Payment and Delivery.* Payment for the Firm Shares shall be made to the Company in Federal or other funds immediately available in New York City against delivery of such Firm Shares for the respective accounts of the several Underwriters at 10:00 a.m., New York City time, on [●], 2024, or at such other time on the same or such other date, not later than [●], 2024, as shall be designated in writing by the Representatives. The time and date of such payment are hereinafter referred to as the “**Closing Date**.”

Payment for any Additional Shares shall be made to the Company in Federal or other funds immediately available in New York City against delivery of such Additional Shares for the respective accounts of the several Underwriters at 10:00 a.m., New York City time, on the date specified in the corresponding notice described in Section 2 or at such other time on the same or on such other date, in any event not later than [●], 2024, as shall be designated in writing by the Representatives.

The Firm Shares and Additional Shares shall be registered in such names and in such denominations as Morgan Stanley & Co. LLC (“**Morgan Stanley**”) shall request not later than one full business day prior to the Closing Date or the applicable Option

Closing Date, as the case may be. The Firm Shares and Additional Shares shall be delivered to Morgan Stanley on the Closing Date or an Option Closing Date, as the case may be, for the respective accounts of the several Underwriters, with any transfer taxes payable in connection with the transfer of the Shares to the Underwriters duly paid, against payment of the Purchase Price therefor.

5. *Conditions to the Underwriters' Obligations.* The obligations of the Company to issue and sell the Shares to the Underwriters and the several obligations of the Underwriters to purchase and pay for the Shares on the Closing Date are subject to the condition that the Registration Statement shall have become effective not later than [●] p.m. (New York City time) on the date hereof.

The several obligations of the Underwriters are subject to the following further conditions:

(a) Subsequent to the execution and delivery of this Agreement and prior to the Closing Date:

(i) no order suspending the effectiveness of the Registration Statement shall be in effect, and no proceeding for such purpose or pursuant to Section 8A under the Securities Act shall be pending before or threatened by the Commission;

(ii) there shall not have occurred any change, or any development involving a prospective change, in the condition, financial or otherwise, or in the earnings, business or operations of the Company and its subsidiaries, taken as a whole, from that set forth in the Time of Sale Prospectus that, in the Representatives' judgment, is material and adverse and that makes it, in the Representatives' judgment, impracticable to market the Shares on the terms and in the manner contemplated in the Time of Sale Prospectus.

(b) The Underwriters shall have received on the Closing Date a certificate, dated the Closing Date and signed on behalf of the Company by an executive officer of the Company, to the effect set forth in Sections 5(a)(i) and 5(a)(ii) above and to the effect that the representations and warranties of the Company contained in this Agreement are true and correct as of the Closing Date and that the Company has complied with all of the agreements and satisfied all of the conditions on its part to be performed or satisfied hereunder on or before the Closing Date.

The officer signing and delivering such certificate may rely upon the best of his or her knowledge as to proceedings threatened.

(c) The Underwriters shall have received on the Closing Date an opinion and negative assurance letter of Cooley LLP, outside counsel for the Company, dated the Closing Date, in form and substance reasonably satisfactory to the Representatives.

(d) The Underwriters shall have received on the Closing Date an opinion and negative assurance letter of Davis Polk & Wardwell LLP, counsel for the Underwriters, dated the Closing Date, in form and substance reasonably satisfactory to the Representatives.

With respect to the negative assurance letters or opinion, as applicable, to be delivered pursuant to Sections 5(c) and 5(d) above, Cooley LLP and Davis Polk & Wardwell LLP may state that their opinions and beliefs are based upon their participation in the preparation of the Registration Statement, the Time of Sale Prospectus and the Prospectus and any amendments or supplements thereto and review and discussion of the contents thereof, but are without independent check or verification, except as specified.

The opinion of Cooley LLP described in Section 5(c) above shall be rendered to the Underwriters at the request of the Company and shall so state therein.

(e) The Underwriters shall have received, on each of the date hereof and the Closing Date, a letter dated the date hereof or the Closing Date, as the case may be, in form and substance reasonably satisfactory to the Representatives, from PricewaterhouseCoopers LLP, independent public accountants, containing statements and information of the type ordinarily included in accountants' "comfort letters" to underwriters with respect to the financial statements and certain financial information contained in the Registration Statement, the Time of Sale Prospectus and the Prospectus; *provided* that the letter delivered on the Closing Date shall use a "cut-off date" not earlier than two business days prior to the Closing Date.

(f) The "lock-up" agreements, each substantially in the form of Exhibit A hereto, between the Representatives and certain stockholders, officers and directors of the Company relating to restrictions on sales and certain other dispositions of shares of Common Stock or certain other securities, delivered to the Representatives on or before the date hereof (the "**Lock-up Agreements**"), shall be in full force and effect on the Closing Date.

(g) The chief financial officer of the Company, in his capacity as such, shall have delivered to the Underwriters, on each of the date hereof and the Closing Date, a certificate with respect to certain financial and accounting information in the Registration Statement, the Time of Sale Prospectus and the Prospectus, in form and substance reasonably acceptable to the Representatives.

(h) The Underwriters shall have received on each of the date hereof and the Closing Date, satisfactory evidence of the good standing of the Company and its subsidiaries as of each respective date in their respective jurisdictions of organization and their good standing in such other jurisdictions as the Underwriters may reasonably request, in each case in writing or any standard form of telecommunication from the appropriate governmental authorities of such jurisdictions.

(i) The Shares to be delivered on the Closing Date or the Option Closing Date, as the case may be, shall have been approved for listing on the Nasdaq Global Select Market (“**Nasdaq**”), subject to official notice of issuance.

(j) The several obligations of the Underwriters to purchase Additional Shares hereunder are subject to the delivery to the Representatives on the applicable Option Closing Date of the following:

(i) a certificate, dated the Option Closing Date and signed on behalf of the Company by an executive officer of the Company, confirming that the certificate delivered on the Closing Date pursuant to Section 5(b) hereof remains true and correct as of such Option Closing Date;

(ii) an opinion and negative assurance letter of Cooley LLP, outside counsel for the Company, dated the Option Closing Date, relating to the Additional Shares to be purchased on such Option Closing Date and otherwise to the same effect as the opinion required by Section 5(c) hereof;

(iii) an opinion and negative assurance letter of Davis Polk & Wardwell LLP, counsel for the Underwriters, dated the Option Closing Date, relating to the Additional Shares to be purchased on such Option Closing Date and otherwise to the same effect as the opinion required by Section 5(d) hereof;

(iv) a letter dated the Option Closing Date, in form and substance reasonably satisfactory to the Representatives, from PricewaterhouseCoopers LLP, independent public accountants, substantially in the same form and substance as the letter furnished to the Underwriters pursuant to Section 5(e) hereof; *provided* that the letter delivered on the Option Closing Date shall use a “cut-off date” not earlier than two business days prior to such Option Closing Date; and

(v) a certificate, dated the Option Closing Date and signed by the chief financial officer of the Company substantially in the same form and substance as the letter furnished to the Underwriters pursuant to Section 5(g) hereof;

(vi) satisfactory evidence of the good standing as of the Option Closing Date of the Company and its subsidiaries substantially in the same form and substance as the evidence furnished to the Underwriters pursuant to Section 5(h) hereof; and

(vii) such other documents as the Representatives may reasonably request with respect to the good standing of the Company, the due authorization and issuance of the Additional Shares to be sold on such Option Closing Date and other matters related to the issuance of such Additional Shares.

6. *Covenants of the Company.* The Company covenants with each Underwriter as follows:

(a) To furnish to the Representatives, without charge, three signed copies of the Registration Statement (including exhibits thereto) and for delivery to each other Underwriter a conformed copy of the Registration Statement (without exhibits thereto) and to furnish to the Representatives in New York City, without charge, prior to 10:00 a.m. New York City time on the business day next succeeding the date of this Agreement and during the period mentioned in Section 6(e) or 6(f) below, as many copies of the Time of Sale Prospectus, the Prospectus and any supplements and amendments thereto or to the Registration Statement as the Representatives may reasonably request.

(b) Before amending or supplementing the Registration Statement, the Time of Sale Prospectus or the Prospectus, to furnish to the Representatives a copy of each such proposed amendment or supplement and not to file any such proposed amendment or supplement to which the Representatives reasonably object, and to file with the Commission within the applicable period specified in Rule 424(b) under the Securities Act any prospectus required to be filed pursuant to such Rule.

(c) To furnish to the Representatives a copy of each proposed free writing prospectus to be prepared by or on behalf of, used by, or referred to by the Company and not to use or refer to any proposed free writing prospectus to which the Representatives reasonably object.

(d) Not to take any action that would result in an Underwriter or the Company being required to file with the Commission pursuant to Rule 433(d) under the Securities Act a free writing prospectus prepared by or on behalf of the Underwriter that the Underwriter otherwise would not have been required to file thereunder.

(e) If the Time of Sale Prospectus is being used to solicit offers to buy the Shares at a time when the Prospectus is not yet available to prospective purchasers and any event shall occur or condition exist as a result of which it is necessary to amend or supplement the Time of Sale Prospectus in order to make the statements therein, in the light of the circumstances in which they were made, not misleading, or if any event shall occur or condition exist as a result of which the Time of Sale Prospectus conflicts with the information contained in the Registration Statement then on file, or if, in the opinion of counsel for the Underwriters, it is necessary to amend or supplement the Time of Sale Prospectus

to comply with applicable law, forthwith to prepare, file with the Commission and furnish, at its own expense, to the Underwriters and to any dealer upon request, either amendments or supplements to the Time of Sale Prospectus so that the statements in the Time of Sale Prospectus as so amended or supplemented will not, in the light of the circumstances when the Time of Sale Prospectus is delivered to a prospective purchaser, be misleading or so that the Time of Sale Prospectus, as amended or supplemented, will no longer conflict with the Registration Statement, or so that the Time of Sale Prospectus, as amended or supplemented, will comply with applicable law.

(f) If, during such period after the first date of the public offering of the Shares as in the opinion of counsel for the Underwriters the Prospectus (or in lieu thereof the notice referred to in Rule 173(a) of the Securities Act) is required by law to be delivered in connection with sales by an Underwriter or dealer (the “**Prospectus Delivery Period**”), any event shall occur or condition exist as a result of which it is necessary to amend or supplement the Prospectus in order to make the statements therein, in the light of the circumstances when the Prospectus (or in lieu thereof the notice referred to in Rule 173(a) of the Securities Act) is delivered to a purchaser, not misleading, or if, in the opinion of counsel for the Underwriters, it is necessary to amend or supplement the Prospectus to comply with applicable law, forthwith to prepare, file with the Commission and furnish, at its own expense, to the Underwriters and to the dealers (whose names and addresses the Representatives will furnish to the Company) to which Shares may have been sold by the Representatives on behalf of the Underwriters and to any other dealers upon request, either amendments or supplements to the Prospectus so that the statements in the Prospectus as so amended or supplemented will not, in the light of the circumstances when the Prospectus (or in lieu thereof the notice referred to in Rule 173(a) of the Securities Act) is delivered to a purchaser, be misleading or so that the Prospectus, as amended or supplemented, will comply with applicable law.

(g) To endeavor to qualify the Shares for offer and sale under the securities or Blue Sky laws of such jurisdictions as the Representatives shall reasonably request; provided, however, that nothing contained herein shall require the Company to qualify as a foreign corporation or other entity or as a dealer in securities in any jurisdiction where it would not otherwise be required to so qualify, to execute or file any general consent to service of process in any such jurisdiction or to subject itself to taxation in any such jurisdiction if it is not otherwise so subject.

(h) To make generally available (which may be satisfied by filing with the Commission on its Electronic Data Gathering Analysis and Retrieval (EDGAR) System) to the Company’s securityholders and to the Representatives as soon as practicable an earnings statement covering a period of at least twelve months beginning with the first fiscal quarter of the Company occurring after the date of this Agreement which shall satisfy the provisions of Section 11(a) of the Securities Act and the rules and regulations of the Commission thereunder.

(i) The Company will promptly notify the Representatives if the Company ceases to be an Emerging Growth Company at any time prior to the later of (i) completion of the distribution of the Shares within the meaning of the Securities Act and (ii) completion of the Restricted Period (as defined in this Section 6).

(j) If at any time following the distribution of any Written Testing-the-Waters Communication there occurred or occurs an event or development as a result of which such Written Testing-the-Waters Communication, as then amended or supplemented, included or would include an untrue statement of a material fact or omitted or would omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances existing at that subsequent time, not misleading, the Company will promptly notify the Representatives and will promptly amend or supplement, at its own expense, such Written Testing-the-Waters Communication to eliminate or correct such untrue statement or omission.

(k) During the Restricted Period (as defined below), to not, without the prior written consent of Morgan Stanley and J.P. Morgan, in their sole discretion, release or waive any lock-up, market standoff or similar restrictions set forth in the equity award agreements or otherwise pursuant to an equity compensation plan for its employees, officers, directors, advisors, or consultants; *provided* that such prior written consent shall not be required for any such releases or waivers that occur on terms described in the Time of Sale Prospectus.

The Company also covenants with each Underwriter that, without the prior written consent of the Representatives on behalf of the Underwriters, it will not, and will not publicly disclose an intention to, during the period ending 180 days after the date of the Prospectus (the “**Restricted Period**”), (1) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend, or otherwise transfer or dispose of, directly or indirectly, any shares of Common Stock or any securities convertible into or exercisable or exchangeable for Common Stock, or (2) enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of the Common Stock, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of Common Stock or such other securities, in cash or otherwise or (3) file any registration statement with the Commission relating to the offering of any shares of Common Stock or any securities convertible into or exercisable or exchangeable for Common Stock.

The restrictions contained in the preceding paragraph shall not apply to (A) the Shares to be sold hereunder, (B) the issuance by the Company of shares of Common Stock or securities convertible into or exercisable for Common Stock pursuant to the conversion or exchange of convertible or exchangeable securities or the exercise of warrants or options (including net exercise) or the settlement of restricted stock units (including net settlement), in each case outstanding on the date hereof and described in the Time of Sale Prospectus, (C) the issuance by the Company of shares of Common

Stock as payment of accrued dividends in connection with the conversion of the Company's shares of preferred stock in the offering, (D) grants of stock options, stock awards, restricted stock, restricted stock units or other equity awards and the issuance of Common Stock or securities convertible into or exercisable for Common Stock (whether upon the exercise of stock options or otherwise) to employees, officers, directors, advisors, or consultants of the Company pursuant to the terms of a plan in effect on the date hereof and described in the Time of Sale Prospectus, (E) the establishment or amendment of a trading plan on behalf of a stockholder, officer or director of the Company pursuant to Rule 10b5-1 under the Exchange Act for the transfer of shares of Common Stock, *provided* that (i) such plan does not provide for the transfer of Common Stock during the Restricted Period and (ii) to the extent a public announcement or filing under the Exchange Act, if any, is required of or voluntarily made by the Company regarding the establishment of such plan, such announcement or filing shall include a statement to the effect that no transfer of Common Stock may be made under such plan during the Restricted Period, (F) the filing of any registration statement on Form S-8 relating to securities (a) granted or to be granted pursuant to any plan in effect on the date hereof and described in the Time of Sale Prospectus or (b) otherwise eligible to be included on a registration statement on Form S-8 and described in the Time of Sale Prospectus, (G) the offer or issuance or agreement to issue by the Company of Common Stock or securities convertible into, exercisable for or which are otherwise exchangeable for or represent the right to receive Common Stock in connection with an acquisition, merger, joint venture, strategic alliance, commercial or other collaborative relationship or the acquisition or license by the Company or any of its subsidiaries of the securities, business, property or other assets of another person or entity or pursuant to any employee benefit plan as assumed by the Company in connection with any such acquisition or transaction, provided that the aggregate number of shares of Common Stock, securities convertible into, exercisable for or which are otherwise exchangeable for or represent the right to receive Common Stock that the Company may sell or issue or agree to sell or issue pursuant to this clause (G) shall not exceed 15.0% of the total number of shares of Common Stock outstanding immediately following the issuance of the Shares hereunder and provided further that, with respect to clauses (B) to (G) above, the recipients thereof provide to the Representatives a signed Lock-up Agreement substantially in the form of the lock-up letter described in Section 5(f) hereof.

If Morgan Stanley and J.P. Morgan Securities LLC, in their sole discretion, agree to release or waive the restrictions set forth in a Lock-up Agreement for an officer or director of the Company and provides the Company with notice of the impending release or waiver at least three business days before the effective date of the release or waiver, the Company agrees to announce the impending release or waiver by a press release substantially in the form of Exhibit B hereto through a major news service at least two business days before the effective date of the release or waiver.

7. *Expenses.* Whether or not the transactions contemplated in this Agreement are consummated or this Agreement is terminated, the Company agrees to pay or cause to be paid all expenses incident to the performance of its obligations under this Agreement, including: (i) the fees, disbursements and expenses of the Company's counsel and the Company's accountants in connection with the registration and delivery of the Shares

under the Securities Act and all other fees or expenses in connection with the preparation and filing of the Registration Statement, any preliminary prospectus, the Time of Sale Prospectus, the Prospectus, any free writing prospectus prepared by or on behalf of, used by, or referred to by the Company and amendments and supplements to any of the foregoing, including all reasonably incurred and documented printing costs associated therewith, and the mailing and delivering of copies thereof to the Underwriters and dealers, in the quantities hereinabove specified, (ii) all costs and expenses related to the transfer and delivery of the Shares to the Underwriters, including any transfer or other taxes payable thereon, (iii) the reasonably incurred and documented cost of printing or producing any Blue Sky or Legal Investment memorandum in connection with the offer and sale of the Shares under state securities laws and all expenses in connection with the qualification of the Shares for offer and sale under state securities laws as provided in Section 6(g) hereof, including filing fees and the reasonable documented fees and disbursements of counsel for the Underwriters in connection with such qualification and in connection with the Blue Sky or Legal Investment memorandum, (iv) all filing fees and the reasonable fees and disbursements of counsel to the Underwriters incurred in connection with the review and qualification of the offering of the Shares by the FINRA (provided that the amount payable by the Company with respect to fees and disbursements of counsel for the Underwriters pursuant to subsections (iii) and (iv) shall not exceed \$75,000), (v) all fees and expenses in connection with the preparation and filing of the registration statement on Form 8-A relating to the Common Stock and all costs and expenses incident to listing the Shares on Nasdaq and other national securities exchanges and foreign stock exchanges, (vi) the cost of printing certificates, if any, representing the Shares, (vii) the costs and charges of any transfer agent, registrar or depository, (viii) the costs and expenses of the Company relating to investor presentations on any "road show" undertaken in connection with the marketing of the offering of the Shares, including, without limitation, expenses associated with the preparation or dissemination of any electronic road show, expenses associated with the production of road show slides and graphics, fees and expenses of any consultants engaged in connection with the road show presentations with the prior approval of the Company, travel and lodging expenses of the officers and other employees or representatives of the Company and any such consultants; *provided that* the cost of any aircraft chartered in connection with the road show will be borne equally by the Company and the Underwriters, such that each of the Company, on the one hand, and the Underwriters, on the other hand, is responsible for 50% of the cost, (ix) the document production charges and expenses associated with printing this Agreement and (x) all other costs and expenses incident to the performance of the obligations of the Company hereunder for which provision is not otherwise made in this Section. It is understood, however, that except as provided in this Section, Section 9 entitled "Indemnity and Contribution" and the last paragraph of Section 11 below, the Underwriters will pay all of their costs and expenses, including fees and disbursements of their counsel, stock transfer taxes payable on resale of any of the Shares by them and any advertising expenses connected with any offers they may make.

8. *Covenants of the Underwriters.* Each Underwriter, severally and not jointly, covenants with the Company not to take any action that would result in the Company being required to file with the Commission under Rule 433(d) a free writing

prospectus prepared by or on behalf of such Underwriter that otherwise would not be required to be filed by the Company thereunder, but for the action of the Underwriter.

9. *Indemnity and Contribution.* (a) The Company agrees to indemnify and hold harmless each Underwriter, its directors and officers, each person, if any, who controls any Underwriter within the meaning of either Section 15 of the Securities Act, or Section 20 of the Exchange Act and each affiliate of any Underwriter within the meaning of Rule 405 under the Securities Act from and against any and all losses, claims, damages and liabilities (including, without limitation, any legal or other expenses reasonably incurred in connection with defending or investigating any such action or claim) that arise out of, or are based upon, any untrue statement or alleged untrue statement of a material fact contained in the Registration Statement or any amendment thereof, any preliminary prospectus, the Time of Sale Prospectus or any amendment or supplement thereto, any issuer free writing prospectus as defined in Rule 433(h) under the Securities Act, any Company information that the Company has filed, or is required to file, pursuant to Rule 433(d) under the Securities Act, any road show as defined in Rule 433(h) under the Securities Act (a “**road show**”), the Prospectus or any amendment or supplement thereto, or any Testing-the-Waters Communication, or arise out of, or are based upon, any omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, except insofar as such losses, claims, damages or liabilities arise out of, or are based upon any such untrue statement or omission or alleged untrue statement or omission made in reliance upon and in conformity with any information relating to any Underwriter furnished to the Company in writing by such Underwriter through the Representatives expressly for use therein, it being understood and agreed that the only such information furnished by the Underwriters through the Representatives consists of the information described as such in paragraph (c) below.

(b) Each Underwriter agrees, severally and not jointly, to indemnify and hold harmless the Company, its directors, its officers who sign the Registration Statement and each person, if any, who controls the Company within the meaning of either Section 15 of the Securities Act or Section 20 of the Exchange Act to the same extent as the foregoing indemnity from the Company to such Underwriter, but only with reference to information relating to such Underwriter furnished to the Company in writing by such Underwriter through the Representatives expressly for use therein; it being understood and agreed that such information consists solely of: the selling concession amount appearing in the third paragraph under the caption “Underwriting,” and the information concerning stabilization in the nineteenth paragraph under the caption “Underwriting” in the Time of Sale Prospectus and the Prospectus.

(c) In case any proceeding (including any governmental investigation) shall be instituted involving any person in respect of which indemnity may be sought pursuant to Section 9(a) or 9(b), such person (the “**indemnified party**”) shall promptly notify the person against whom such indemnity may be sought (the “**indemnifying party**”) in writing and the indemnifying party, upon request of the indemnified party, shall retain counsel reasonably satisfactory to the indemnified

party to represent the indemnified party and any others the indemnifying party may designate in such proceeding and shall pay the reasonably incurred, documented fees and disbursements of such counsel related to such proceeding. In any such proceeding, any indemnified party shall have the right to retain its own counsel, but the fees and expenses of such counsel shall be at the expense of such indemnified party unless (i) the indemnifying party and the indemnified party shall have mutually agreed to the retention of such counsel; (ii) the named parties to any such proceeding (including any impleaded parties) include both the indemnifying party and the indemnified party and representation of both parties by the same counsel would be inappropriate due to actual or potential differing interests between them; (iii) the indemnifying party has failed within a reasonable time to retain counsel reasonably satisfactory to the indemnified party; or (iv) the indemnified party shall have reasonably concluded that there may be legal defenses available to it that are different from or in addition to those available to the indemnifying party. It is understood and agreed that the indemnifying party shall not, in respect of the legal expenses of any indemnified party in connection with any proceeding or related proceedings in the same jurisdiction, be liable for (i) the reasonably incurred and documented fees and expenses of more than one separate firm (in addition to any local counsel) for all such indemnified parties that all such reasonably incurred and documented fees and expenses shall be reimbursed as they are incurred. Such firm shall be designated in writing by the Representatives, in the case of parties indemnified pursuant to Section 9(a), and by the Company, in the case of parties indemnified pursuant to Section 9(b). The indemnifying party shall not be liable for any settlement of any proceeding effected without its written consent, but if settled with such consent or if there be a final judgment for the plaintiff, the indemnifying party agrees to indemnify the indemnified party from and against any loss or liability by reason of such settlement or judgment. Notwithstanding the foregoing sentence, if at any time an indemnified party shall have requested an indemnifying party to reimburse the indemnified party for fees and expenses of counsel as contemplated by the second and third sentences of this paragraph, the indemnifying party agrees that it shall be liable for any settlement of any proceeding effected without its written consent if (i) such settlement is entered into more than 30 days after receipt by such indemnifying party of the aforesaid request and (ii) such indemnifying party shall not have reimbursed the indemnified party in accordance with such request prior to the date of such settlement. No indemnifying party shall, without the prior written consent of the indemnified party, effect any settlement of any pending or threatened proceeding in respect of which any indemnified party is or could have been a party and indemnity could have been sought hereunder by such indemnified party, unless such settlement (x) includes an unconditional release of such indemnified party from all liability on claims that are the subject matter of such proceeding and (y) does not include any statement as to or any admission of fault, culpability or a failure to act by or on behalf of any indemnified party.

(d) To the extent the indemnification provided for in Section 9(a) or 9(b) is unavailable to an indemnified party or insufficient in respect of any losses, claims, damages or liabilities referred to therein, then each indemnifying party

under such paragraph, in lieu of indemnifying such indemnified party thereunder, shall contribute to the amount paid or payable by such indemnified party as a result of such losses, claims, damages or liabilities (i) in such proportion as is appropriate to reflect the relative benefits received by the Company on the one hand and the Underwriters on the other hand from the offering of the Shares or (ii) if the allocation provided by clause 9(d)(i) above is not permitted by applicable law, in such proportion as is appropriate to reflect not only the relative benefits referred to in clause 9(d)(i) above but also the relative fault of the Company on the one hand and of the Underwriters on the other hand in connection with the statements or omissions that resulted in such losses, claims, damages or liabilities, as well as any other relevant equitable considerations. The relative benefits received by the Company on the one hand and the Underwriters on the other hand in connection with the offering of the Shares shall be deemed to be in the same respective proportions as the net proceeds from the offering of the Shares (after deducting underwriting discounts and commissions but before deducting expenses) received by the Company and the total underwriting discounts and commissions received by the Underwriters, in each case as set forth in the table on the cover of the Prospectus, bear to the aggregate Public Offering Price of the Shares. The relative fault of the Company on the one hand and the Underwriters on the other hand shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or the omission or alleged omission to state a material fact relates to information supplied by the Company or by the Underwriters and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission. The Underwriters' respective obligations to contribute pursuant to this Section 9 are several in proportion to the respective number of Shares they have purchased hereunder, and not joint.

(e) The Company and the Underwriters agree that it would not be just or equitable if contribution pursuant to this Section 9 were determined by *pro rata* allocation (even if the Underwriters were treated as one entity for such purpose) or by any other method of allocation that does not take account of the equitable considerations referred to in Section 9(d). The amount paid or payable by an indemnified party as a result of the losses, claims, damages and liabilities referred to in Section 9(d) shall be deemed to include, subject to the limitations set forth above, any legal or other expenses reasonably incurred by such indemnified party in connection with investigating or defending any such action or claim. Notwithstanding the provisions of this Section 9, no Underwriter shall be required to contribute any amount in excess of the amount by which the total price at which the Shares underwritten by it and distributed to the public were offered to the public exceeds the amount of any damages that such Underwriter has otherwise been required to pay by reason of such untrue or alleged untrue statement or omission or alleged omission. No person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) shall be entitled to contribution from any person who was not guilty of such fraudulent misrepresentation. The remedies provided for in this Section 9 are not exclusive and shall not limit any rights or remedies which may otherwise be available to any indemnified party at law or in equity.

(f) The indemnity and contribution provisions contained in this Section 9 and the representations, warranties and other statements of the Company contained in this Agreement shall remain operative and in full force and effect regardless of (i) any termination of this Agreement, (ii) any investigation made by or on behalf of any Underwriter, any person controlling any Underwriter or any affiliate of any Underwriter or by or on behalf of the Company, its officers or directors or any person controlling the Company and (iii) acceptance of and payment for any of the Shares.

10. *Termination.* The Underwriters may terminate this Agreement by notice given by the Representatives to the Company, if after the execution and delivery of this Agreement and prior to or on the Closing Date or any Option Closing Date, as the case may be, (i) trading generally shall have been suspended or materially limited on, or by, as the case may be, any of the New York Stock Exchange, the NYSE American, or Nasdaq, (ii) trading of any securities of the Company shall have been suspended on any exchange or in any over-the-counter market, (iii) a material disruption in securities settlement, payment or clearance services in the United States shall have occurred, (iv) any moratorium on commercial banking activities shall have been declared by Federal or New York State authorities or (v) there shall have occurred any outbreak or escalation of hostilities, or any change in financial markets or any calamity or crisis that, in the Representatives' judgment, is material and adverse and which, singly or together with any other event specified in this clause (v), makes it, in the Representatives' judgment, impracticable or inadvisable to proceed with the offer, sale or delivery of the Shares on the terms and in the manner contemplated in the Time of Sale Prospectus or the Prospectus.

11. *Effectiveness; Defaulting Underwriters.* This Agreement shall become effective upon the execution and delivery hereof by the parties hereto.

If, on the Closing Date or an Option Closing Date, as the case may be, any one or more of the Underwriters shall fail or refuse to purchase Shares that it has or they have agreed to purchase hereunder on such date, and the aggregate number of Shares which such defaulting Underwriter or Underwriters agreed but failed or refused to purchase is not more than one-tenth of the aggregate number of the Shares to be purchased on such date, the other Underwriters shall be obligated severally in the proportions that the number of Firm Shares set forth opposite their respective names in Schedule I bears to the aggregate number of Firm Shares set forth opposite the names of all such non-defaulting Underwriters, or in such other proportions as the Representatives may specify, to purchase the Shares which such defaulting Underwriter or Underwriters agreed but failed or refused to purchase on such date; *provided* that in no event shall the number of Shares that any Underwriter has agreed to purchase pursuant to this Agreement be increased pursuant to this Section 11 by an amount in excess of one-ninth of such number of Shares without the written consent of such Underwriter. If, on the Closing Date, any Underwriter or Underwriters shall fail or refuse to purchase Firm

Shares and the aggregate number of Firm Shares with respect to which such default occurs is more than one-tenth of the aggregate number of Firm Shares to be purchased on such date, and arrangements satisfactory to the Representatives, the Company for the purchase of such Firm Shares are not made within 36 hours after such default, this Agreement shall terminate without liability on the part of any non-defaulting Underwriter or the Company. In any such case either the Representatives or the Company shall have the right to postpone the Closing Date, but in no event for longer than seven days, in order that the required changes, if any, in the Registration Statement, in the Time of Sale Prospectus, in the Prospectus or in any other documents or arrangements may be effected. If, on an Option Closing Date, any Underwriter or Underwriters shall fail or refuse to purchase Additional Shares and the aggregate number of Additional Shares with respect to which such default occurs is more than one-tenth of the aggregate number of Additional Shares to be purchased on such Option Closing Date, the non-defaulting Underwriters shall have the option to (i) terminate their obligation hereunder to purchase the Additional Shares to be sold on such Option Closing Date or (ii) purchase not less than the number of Additional Shares that such non-defaulting Underwriters would have been obligated to purchase in the absence of such default. Any action taken under this paragraph shall not relieve any defaulting Underwriter from liability in respect of any default of such Underwriter under this Agreement.

If this Agreement shall be terminated by the Underwriters, or any of them, because of any failure or refusal on the part of the Company to comply with the terms or to fulfill any of the conditions of this Agreement, or if for any reason the Company shall be unable to perform its obligations under this Agreement, the Company will reimburse the Underwriters or such Underwriters as have so terminated this Agreement with respect to themselves, severally, for all documented out of pocket expenses reasonably incurred (including the reasonable fees and disbursements of their counsel) by such Underwriters in connection with this Agreement or the offering contemplated hereunder, provided that the Company shall not be required to reimburse the Underwriters pursuant to this Section 11 if the Agreement is terminated pursuant to Sections 10(i), 10(iii), 10(iv) and 10(v) hereof.

12. *Entire Agreement.* (a) This Agreement, together with any contemporaneous written agreements and any prior written agreements (to the extent not superseded by this Agreement) that relate to the offering of the Shares, represents the entire agreement between the Company and the Underwriters with respect to the preparation of any preliminary prospectus, the Time of Sale Prospectus, the Prospectus, the conduct of the offering, and the purchase and sale of the Shares.

(b) The Company acknowledges that in connection with the offering of the Shares: (i) the Underwriters have acted at arm's length, are not agents of, and owe no fiduciary duties to, the Company or any other person, (ii) the Underwriters owe the Company only those duties and obligations set forth in this Agreement, any contemporaneous written agreements and prior written agreements (to the extent not superseded by this Agreement), if any, (iii) the Underwriters may have interests that differ from those of the Company, and (iv) none of the activities of the Underwriters in connection with the transactions

contemplated herein constitutes a recommendation, investment advice, or solicitation of any action by the Underwriters with respect to any entity or natural person. The Company waives to the full extent permitted by applicable law any claims it may have against the Underwriters arising from an alleged breach of fiduciary duty in connection with the offering of the Shares.

13. *Recognition of the U.S. Special Resolution Regimes.* (a) In the event that any Underwriter that is a Covered Entity becomes subject to a proceeding under a U.S. Special Resolution Regime, the transfer from such Underwriter of this Agreement, and any interest and obligation in or under this Agreement, will be effective to the same extent as the transfer would be effective under the U.S. Special Resolution Regime if this Agreement, and any such interest and obligation, were governed by the laws of the United States or a state of the United States.

(b) In the event that any Underwriter that is a Covered Entity or a BHC Act Affiliate of such Underwriter becomes subject to a proceeding under a U.S. Special Resolution Regime, Default Rights under this Agreement that may be exercised against such Underwriter are permitted to be exercised to no greater extent than such Default Rights could be exercised under the U.S. Special Resolution Regime if this Agreement were governed by the laws of the United States or a state of the United States.

For purposes of this Section, a “**BHC Act Affiliate**” has the meaning assigned to the term “affiliate” in, and shall be interpreted in accordance with, 12 U.S.C. § 1841(k). “**Covered Entity**” means any of the following: (i) a “covered entity” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 252.82(b); (ii) a “covered bank” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 47.3(b); or (iii) a “covered FSI” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 382.2(b). “**Default Right**” has the meaning assigned to that term in, and shall be interpreted in accordance with, 12 C.F.R. §§ 252.81, 47.2 or 382.1, as applicable. “**U.S. Special Resolution Regime**” means each of (i) the Federal Deposit Insurance Act and the regulations promulgated thereunder and (ii) Title II of the Dodd-Frank Wall Street Reform and Consumer Protection Act and the regulations promulgated thereunder.

14. *Counterparts.* This Agreement may be signed in two or more counterparts, each of which shall be an original, with the same effect as if the signatures thereto and hereto were upon the same instrument. Counterparts may be delivered via facsimile, electronic mail (including any electronic signature complying with the U.S. federal ESIGN Act of 2000, Uniform Electronic Transactions Act or other applicable law, e.g., www. Docusign.com) or other transmission method any counterpart so delivered shall be deemed to have been duly and validly delivered and be valid and effective for all purposes.

15. *Applicable Law.* This Agreement shall be governed by and construed in accordance with the internal laws of the State of New York.

16. *Headings.* The headings of the sections of this Agreement have been inserted for convenience of reference only and shall not be deemed a part of this Agreement.

17. *Submission to Jurisdiction.* The Company irrevocably submits to the nonexclusive jurisdiction of any New York State or United States Federal court sitting in the City of New York (the “**Specified Courts**”) over any suit, action or proceeding arising out of or relating to this Agreement, the Time of Sale Prospectus, the Prospectus, the Registration Statement or the offering of the Shares (each, a “**Related Proceeding**”). The Company irrevocably waives, to the fullest extent permitted by law, any objection which it may now or hereafter have to the laying of venue of any Related Proceeding brought in such a court and any claim that any such Related Proceeding brought in such a court has been brought in an inconvenient forum. To the extent that the Company has or hereafter may acquire any immunity (on the grounds of sovereignty or otherwise) from the jurisdiction of any court or from any legal process with respect to itself or its property, the Company irrevocably waives, to the fullest extent permitted by law, such immunity in respect of any such suit, action or proceeding.

18. *Waiver of Jury Trial.* Each of the parties hereto hereby waives any right to trial by jury in any suit or proceeding arising out of or relating to this Agreement.

19. *Notices.* All communications hereunder shall be in writing and effective only upon receipt and if to the Underwriters shall be delivered, mailed or sent to the Representatives to Morgan Stanley & Co. LLC, 1585 Broadway, 29th Floor, New York, New York 10036, Attention: Equity Syndicate Desk, with a copy to the Legal Department, J.P. Morgan Securities LLC, 383 Madison Avenue, New York, New York 10179, Attention: Equity Syndicate Desk and Allen & Company LLC, 711 Fifth Avenue, New York, NY 10022, Attention: Legal Department; and if to the Company shall be delivered, mailed or sent to Tempus AI, Inc., 600 West Chicago Avenue, Suite 510, Chicago, Illinois 60654, Attention: Legal Department.

20. *USA Patriot Act.* In accordance with the requirements of the USA Patriot Act (Title III of Pub. L. 107-56 (signed into law October 26, 2001)), the Underwriters are required to obtain, verify and record information that identifies their respective clients, including the Company, which information may include the name and address of their respective clients, as well as other information that will allow the Underwriters to properly identify their respective clients.

Very truly yours,

Tempus AI, Inc.

By: _____

Name:

Title:

Accepted as of the date hereof

Morgan Stanley & Co. LLC
J.P. Morgan Securities LLC
Allen & Company LLC

Acting severally on behalf of themselves and
the several Underwriters named in
Schedule I hereto.

By: Morgan Stanley & Co. LLC

By: _____
Name:
Title:

By: J.P. Morgan Securities LLC

By: _____
Name:
Title:

By: Allen & Company LLC

By: _____
Name:
Title:

<u>Underwriter</u>	<u>Number of Firm Shares To Be Purchased</u>
Morgan Stanley & Co. LLC	[•]
J.P. Morgan Securities LLC	[•]
Allen & Company LLC	[•]
BofA Securities, Inc.	[•]
Cowen and Company, LLC	[•]
Stifel, Nicolaus & Company, Incorporated	[•]
William Blair & Company, L.L.C.	[•]
Loop Capital Markets LLC	[•]
Needham & Company, LLC	[•]
Total:	[•]

Time of Sale Prospectus

1. Preliminary Prospectus issued [date]
2. [identify all free writing prospectuses filed by the Company under Rule 433(d) of the Securities Act]
3. [free writing prospectus containing a description of terms that does not reflect final terms, if the Time of Sale Prospectus does not include a final term sheet]
4. Orally communicated pricing information:
 - Firm Shares: [●]
 - Additional Shares: [●]
 - Public Offering Price: [●]

Written Testing-the-Waters Communication

Testing-the-Waters presentations from September 2021 to January 2024 as communicated to, and approved by the Representatives, in accordance with applicable corresponding guidelines.

LOCK-UP AGREEMENT

_____, 2024

Morgan Stanley & Co. LLC
J.P. Morgan Securities LLC
Allen & Company LLC
c/o Morgan Stanley & Co. LLC
1585 Broadway
New York, NY 10036

Ladies and Gentlemen:

The undersigned understands that Morgan Stanley & Co. LLC, J.P. Morgan Securities LLC and Allen & Company LLC (together, the “**Representatives**”) propose to enter into an underwriting agreement (the “**Underwriting Agreement**”) with Tempus AI, Inc., a Delaware corporation (the “**Company**”), providing for the public offering (the “**Public Offering**”) by the several underwriters, including the Representatives (the “**Underwriters**”), of shares of the Company’s Class A common stock, par value \$0.0001 per share (the “**Class A Stock**”). As used herein, the term “**Common Stock**” refers to both shares of the Company’s Class A Stock and the Company’s Class B common stock, par value \$0.0001 per share (the “**Class B Stock**”).

To induce the Underwriters that may participate in the Public Offering to continue their efforts in connection with the Public Offering, the undersigned hereby agrees that, without the prior written consent of Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC on behalf of the Underwriters, it will not, will not cause any of its direct or indirect affiliates to, and will not publicly disclose an intention to, during the period commencing on and including the date of first public filing of the Registration Statement (as defined in the Underwriting Agreement) relating to the Public Offering and ending 180 days after the date of the final prospectus (the “**Restricted Period**”) relating to the Public Offering (the “**Prospectus**”), (1) lend, offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, or otherwise transfer or dispose of, directly or indirectly, any shares of Common Stock beneficially owned (as such term is used in Rule 13d-3 of the Securities Exchange Act of 1934, as amended (the “**Exchange Act**”), by the undersigned or any other securities so owned convertible into or exercisable or exchangeable for Common Stock or (2) enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of the Common Stock, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of Common Stock or such other securities, in cash or otherwise. The undersigned acknowledges and agrees that the foregoing precludes the undersigned from engaging in any hedging or other transactions or arrangements (including, without

limitation, any short sale or the purchase or sale of, or entry into, any put or call option, or combination thereof, forward, swap or any other derivative transaction or instrument, however described or defined) designed or intended, or which could reasonably be expected to lead to or result in, a sale or disposition or transfer (whether by the undersigned or any other person) of any economic consequences of ownership, in whole or in part, directly or indirectly, of any shares of Common Stock, whether any such transaction or arrangement (or instrument provided for thereunder) would be settled by delivery of Common Stock, in cash or otherwise.

The foregoing paragraph shall not apply to:

(a) transactions relating to shares of Class A Stock or other securities acquired in the Public Offering or in open market transactions after the completion of the Public Offering, *provided* that no filing under the Exchange Act, or other public announcement, reporting a reduction in beneficial ownership of shares of Class A Stock shall be required or shall be voluntarily made in connection with subsequent sales of Class A Stock or other securities acquired in the Public Offering or in such open market transactions during the Restricted Period;

(b) transfers of shares of Common Stock or any security convertible into or exercisable or exchangeable for Common Stock (i) as a bona fide gift, (ii) to an immediate family member (as defined below) or to any trust for the direct or indirect benefit of the undersigned or an immediate family member of the undersigned, (iii) to any corporation, partnership, limited liability company, investment fund, trust or other entity controlled or managed, or under common control or management by, the undersigned, or (iv) by will, other testamentary document or intestate succession to the legal representative, heir, beneficiary or an immediate family member of the undersigned, *provided* that, in the case of any transfer pursuant to this clause (b), (i) each transferee shall sign and deliver a lock-up agreement substantially in the form of this agreement, and (ii) no filing under the Exchange Act, or other public announcement, reporting a reduction in beneficial ownership of shares of Common Stock shall be required or shall be voluntarily made during the Restricted Period;

(c) if the undersigned is a corporation, partnership, limited liability company, trust or other business entity, transfers or distributions of shares of Common Stock or any security convertible into or exercisable or exchangeable for Common Stock to general or limited partners, managers or members, stockholders, other equityholders or direct or indirect affiliates (within the meaning of Rule 405 under the Securities Act of 1933, as amended (the “**Securities Act**”)) of the undersigned or to the estates of any of the foregoing; *provided* that in the case of any transfer or distribution pursuant to this clause (c), (i) each transferee or distributee shall sign and deliver a lock-up agreement substantially in the form of this agreement and (ii) no filing under the Exchange Act, or other public announcement, reporting a reduction in beneficial ownership of shares of Common Stock shall be required or shall be voluntarily made during the Restricted Period;

(d) the transfer to the Company of shares of Common Stock or any securities convertible into or exercisable or exchangeable for Common Stock to satisfy any tax, including estimated tax, remittance, or other payment obligations of the undersigned arising in connection with a vesting event of the Company's securities, upon the settlement of restricted stock units or the payment due for the exercise of options or other rights to purchase securities of the Company (including, in each case, by way of a "cashless" or "net exercise" basis and any transfer to the Company necessary in respect of such amount needed for the payment of taxes, including estimated taxes, and remittance payments due as a result of such vesting, settlement or exercise including by means of a "net settlement" or otherwise), in all such cases pursuant to equity awards granted under a stock incentive plan or other equity award plan of the Company described in the Prospectus; *provided* that (i) any remaining shares of Common Stock received upon such vesting, settlement or exercise shall be subject to the terms of this agreement and (ii) no filing under the Exchange Act, or other public announcement, shall be voluntarily made during the Restricted Period; and *provided further* that any filing required under the Exchange Act shall clearly indicate in the footnotes thereto that the filing relates to the circumstances described in this clause (d);

(e) sales of shares of Class A Stock pursuant to the terms of the Underwriting Agreement;

(f) the establishment of a trading plan by the undersigned pursuant to Rule 10b5-1 under the Exchange Act for the transfer of shares of Common Stock, *provided* that (i) such plan does not provide for the transfer of Common Stock during the Restricted Period and (ii) to the extent a public announcement or filing under the Exchange Act, if any, is required of or voluntarily made by or on behalf of the undersigned or the Company regarding the establishment of such plan, such announcement or filing shall include a statement to the effect that no transfer of Common Stock may be made under such plan during the Restricted Period;

(g) the transfer of shares of Common Stock or any security convertible into or exercisable or exchangeable for Common Stock that occurs by operation of law pursuant to a qualified domestic order or in connection with a divorce settlement or other court order, *provided* that (i) the transferee shall sign and deliver a lock-up agreement substantially in the form of this agreement, and (ii) no filing under the Exchange Act, or other public announcement, shall be required or shall be voluntarily made during the Restricted Period (other than any filing required under Section 16(a) of the Exchange Act that shall clearly indicate in the footnotes thereto that the filing relates to the circumstances described in this clause (g));

(h) the conversion of shares of the Company's convertible preferred stock or Class B Stock into shares of Class A Stock as described in the Prospectus, *provided* that, in each case, (i) such shares shall continue to be subject to the restrictions on transfer set forth in this agreement; and (ii) no filing under the Exchange Act, or other public announcement shall be required or shall be voluntarily made during the Restricted Period (other than any filing required under Section 16(a) of the Exchange Act that shall clearly indicate in the footnotes thereto that the filing relates to the circumstances described in this clause (h));

(i) the transfer of shares of Common Stock or any security convertible into or exercisable or exchangeable for Common Stock pursuant to a bona fide third-party tender offer, merger, consolidation or other similar transaction that is approved by the board of directors of the Company, made to all holders of Common Stock involving a change of control (as defined below), *provided* that, in the event that the tender offer, merger, consolidation or other such transaction is not completed, the Common Stock owned by the undersigned shall remain subject to the restrictions contained in this agreement; or

(j) any transfer of shares of Common Stock or any security convertible into or exercisable or exchangeable for Common Stock pledged in a bona fide transaction to third parties as collateral to secure obligations pursuant to lending or other arrangements in effect as of the date hereof between such third parties (or their affiliates or designees) and the undersigned and/or its affiliates or any similar arrangement relating to a financing arrangement for the benefit of the undersigned and/or its affiliates, *provided* that in the case of pledges or similar arrangements under this clause (j), any such pledgee or other party shall, upon foreclosure on the pledged securities, sign and deliver a lock-up agreement substantially in the form of this agreement, and *provided* further that no filing under the Exchange Act, or any other public filing or disclosure, of such transfer by or on behalf of the undersigned, shall be required or shall be voluntarily made during the Restricted Period.

As used herein, (i) “immediate family member” means a child, stepchild, grandchild, parent, stepparent, grandparent, spouse, sibling, mother-in-law, father-in-law, son-in-law, daughter-in-law, brother-in-law, or sister-in-law, including adoptive relationships, of the undersigned and (ii) “change of control” shall mean the transfer (whether by tender offer, merger, consolidation or other similar transaction), in one transaction or a series of related transactions, to a person or group of affiliated persons (other than an Underwriter pursuant to the Public Offering), of the Company’s voting securities if, after such transfer, such person or group of affiliated persons would hold more than 50% of the number of outstanding voting securities of the Company (or the surviving entity) and 50% of the voting control of the outstanding voting securities of the Company (or the surviving entity).

In addition, the undersigned agrees that, without the prior written consent of Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC on behalf of the Underwriters, it will not, during the Restricted Period, make any demand for or exercise any right with respect to, the registration of any shares of Common Stock or any security convertible into or exercisable or exchangeable for Common Stock. The undersigned agrees that, except as otherwise explicitly provided hereby, to the extent that the terms of this agreement conflict with or are in any way inconsistent with any prior investor rights agreement (including that certain Eleventh Amended and Restated Investors’ Rights Agreement by and among the Company and the parties thereto, dated as of October 11, 2023, as it may be amended from time to time (the “**IRA**”)), prior registration rights agreement, prior market standoff agreement or any other prior lock-up or similar prior

agreement to which the undersigned and the Company may be a party, this agreement supersedes such prior agreement. The undersigned hereby waives any and all notice requirements and rights with respect to the registration of securities pursuant to any agreement, understanding or anything otherwise setting forth the terms of any security of the Company held by the undersigned, including any investor right agreement (including the IRA) or registration rights agreement to which the undersigned and the Company may be party; *provided, however*, that such waiver shall apply only to the proposed Public Offering and any other action taken by the Company in connection with the proposed Public Offering, including without limitation the filing by the Company of any registration statement on Form S-8 providing for the registration for reoffer and resale of shares of Common Stock owned by eligible securityholders of the Company during the Restricted Period.

The undersigned also agrees and consents to the entry of stop transfer instructions with the Company's transfer agent and registrar against the transfer of the undersigned's shares of Common Stock except in compliance with the foregoing restrictions.

If the undersigned is an officer or director of the Company, the undersigned further agrees that the foregoing restrictions shall be equally applicable to any issuer-directed Shares the undersigned may purchase in the Public Offering.

If the undersigned is an officer or director of the Company, (i) Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC on behalf of the Underwriters agree that, at least three business days before the effective date of any release or waiver of the foregoing restrictions in connection with a transfer of shares of Common Stock, they will notify the Company of the impending release or waiver, and (ii) the Company has agreed in the Underwriting Agreement to announce the impending release or waiver by press release through a major news service at least two business days before the effective date of the release or waiver. Any release or waiver granted by Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC on behalf of the Underwriters hereunder to any such officer or director shall only be effective two business days after the publication date of such press release. The provisions of this paragraph will not apply if (a) the release or waiver is effected solely to permit a transfer not for consideration or to an immediate family member as defined in FINRA Rule 5130(i)(5) and (b) the transferee has agreed in writing to be bound by the same terms described in this agreement to the extent and for the duration that such terms remain in effect at the time of the transfer.

If any stockholder of the Company holding more than 1% of the outstanding Common Stock at the time of the Triggering Release (as defined below), other than the undersigned (each, a "**Triggering Stockholder**"), is granted an early release from the restrictions described herein during the Restricted Period (each, a "**Triggering Release**"), then the undersigned shall also be granted an early release from its obligations hereunder with respect to the same percentage of the undersigned's Common Stock as the percentage that the Common Stock being released in the Triggering Release represents with respect to the total Common Stock held by the Triggering Stockholder at the time of the Triggering Release; *provided* that (a) the foregoing pro rata release will not apply if the aggregate number of shares of Common Stock released pursuant to all Triggering

Releases is less than or equal to 1% of the total number of outstanding shares of Common Stock calculated as of the date of the last such Triggering Release, (b) the foregoing pro rata release will not apply if it is effected solely to permit a transfer not for consideration and the transferee has agreed in writing to be bound by the same terms described in this agreement to the extent and for the duration that such terms remain in effect at the time of the transfer, and (c) in the case of an early release from the restrictions described herein during the Restricted Period in connection with an underwritten public offering, whether or not such offering or sale is wholly or partially a secondary offering of Common Stock (an “**Underwritten Sale**”), such early release shall only apply with respect to the undersigned’s participation in such Underwritten Sale. Notwithstanding any other provisions of this agreement, if Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC on behalf of the Underwriters, in their sole judgment, determine that an owner of any securities that is a natural person should be granted an early release from a lock-up agreement due to circumstances of an emergency or hardship, then the undersigned shall not have any right to be granted an early release pursuant to the terms of this paragraph. Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC on behalf of the Underwriters shall use commercially reasonable efforts to provide notice to the Company, and the Company shall use commercially reasonable efforts to provide notice to the undersigned, in each case, within two business days upon the occurrence of a release of a stockholder of its obligations under any lock-up agreement executed in connection with the Public Offering that gives rise to a corresponding release of the undersigned from its obligations hereunder pursuant to the terms of this paragraph; *provided* that the failure to give such notice shall not give rise to any claim or liability against the Underwriters or the Company, as applicable.

Notwithstanding anything to the contrary contained in this agreement, if the closing price per share of the Class A Stock on The Nasdaq Stock Market LLC (or such other exchange on which the Class A Stock is listed) is at least 30% greater than the initial public offering price per share of Class A Stock set forth on the cover page of the Prospectus for (i) any ten trading days (which, for the avoidance of doubt, need not be consecutive trading days) during the period ending on, and including, the date that the Company publicly announces its earnings for the first completed quarterly period following the most recent period for which financial statements are included in the Prospectus (which, for this purpose, shall not include “flash” numbers or preliminary, partial earnings) (the “**Initial Post-Offering Earnings Release Date**”) and (ii) any one trading day following the Initial Post-Offering Earnings Release Date, then the Restricted Period shall automatically expire on the date that is the later of (a) the date on which the conditions set forth in both (i) and (ii) are satisfied and (b) two trading days following the Initial Post-Offering Earnings Release Date (the later of such dates, the “**Early Release Date**”) with respect to a number of shares equal to 30% of the aggregate shares of Common Stock subject to this agreement (the “**Released Shares**”), to the extent vested, and such Released Shares may be sold in the public market, subject to compliance with applicable securities laws including, without limitation, Rule 144 under the Securities Act, and compliance with the Company’s insider trading policy then in effect, beginning at the commencement of the first trading day following the Early Release Date. Furthermore, in the event that the end of the Restricted Period would fall during one of the Company’s quarterly blackout periods during which trading by certain of the

Company's employees in the Company's securities would not be permitted under the Company's insider trading policy then in effect, the Restricted Period shall automatically expire on the date that is the later of (i) ten trading days prior to the date that such blackout period begins and (ii) the 150th day after the date of the Prospectus.

The undersigned understands that the Company and the Underwriters are relying upon this agreement in proceeding toward consummation of the Public Offering. The undersigned further understands that this agreement is irrevocable and shall be binding upon the undersigned's heirs, legal representatives, successors and assigns.

The undersigned acknowledges and agrees that the Underwriters have not provided any recommendation or investment advice nor have the Underwriters solicited any action from the undersigned with respect to the Public Offering of the Class A Stock and the undersigned has consulted their own legal, accounting, financial, regulatory and tax advisors to the extent deemed appropriate. The undersigned further acknowledges and agrees that, although the Underwriters may provide certain Regulation Best Interest and Form CRS disclosures or other related documentation to you in connection with the Public Offering, the Underwriters are not making a recommendation to you to participate in the Public Offering or sell any Class A Stock at the price determined in the Public Offering, and nothing set forth in such disclosures or documentation is intended to suggest that any Underwriter is making such a recommendation.

This agreement shall be terminated and the undersigned shall be released from their obligations hereunder upon the earlier of: (i) the date the Registration Statement (as defined in the Underwriting Agreement) filed with the U.S. Securities and Exchange Commission with respect to the Public Offering is withdrawn prior to the execution of the Underwriting Agreement, (ii) the date on which for any reason the Underwriting Agreement is terminated (other than the provisions thereof that survive termination) prior to payment for and delivery of the Class A Stock to be sold thereunder (other than pursuant to the Underwriters' option to purchase additional Class A Stock) or (iii) the Company notifies the Representatives in writing prior to the execution of the Underwriting Agreement that it does not intend to proceed with the Public Offering.

Whether or not the Public Offering actually occurs depends on a number of factors, including market conditions. Any Public Offering will only be made pursuant to an Underwriting Agreement, the terms of which are subject to negotiation between the Company and the Underwriters.

This agreement and any claim, controversy or dispute arising under or related to this agreement shall be governed by and construed in accordance with the laws of the State of New York.

The Company is an express third-party beneficiary of this agreement.

This agreement may be delivered via facsimile, electronic mail (including pdf or any electronic signature complying with the U.S. federal ESIGN Act of 2000, e.g., www.docuSign.com or www.echosign.com) or other transmission method and any counterpart so delivered shall be deemed to have been duly and validly delivered and be valid and effective for all purposes.

[Signature Page Follows]

Very truly yours,

IF AN INDIVIDUAL:

(Signature)

(Name)

(Address)

IF AN ENTITY:

(Name of Entity)

By: _____

Name:

Title:

(Address)

FORM OF WAIVER OF LOCK-UP

[●], 2024

[Name and Address of
Officer or Director
Requesting Waiver]
Dear Mr./Ms. [Name]:

This letter is being delivered to Morgan Stanley & Co. LLC (“**Morgan Stanley**”) and J.P. Morgan Securities LLC (“**J.P. Morgan**”) in connection with the offering by Tempus AI, Inc. (the “**Company**”) of [●] shares of common stock, \$[●] par value (the “**Common Stock**”), of the Company and the lock-up agreement dated [●], 2024 (the “**Lock-up Agreement**”), executed by you in connection with such offering, and your request for a [waiver] [release] dated [●], 2024, with respect to [●] shares of Common Stock (the “**Shares**”).

Morgan Stanley and J.P. Morgan hereby agree to [waive] [release] the transfer restrictions set forth in the Lock-up Agreement, but only with respect to the Shares, effective [●], 2024; provided, however, that such [waiver] [release] is conditioned on the Company announcing the impending [waiver] [release] by press release through a major news service at least two business days before effectiveness of such [waiver] [release]. This letter will serve as notice to the Company of the impending [waiver] [release].

Except as expressly [waived] [released] hereby, the Lock-up Agreement shall remain in full force and effect.

[Signature Pages Follow]

B-1

Very truly yours,

Morgan Stanley & Co. LLC
J.P. Morgan Securities LLC
Acting severally on behalf of themselves
and the several Underwriters named in
Schedule I hereto

Morgan Stanley & Co. LLC

By: _____
Name:
Title:

J.P. Morgan Securities LLC

By: _____
Name:
Title:

cc: Company

[Signature Page to Lock-up Waiver]

FORM OF PRESS RELEASE

Tempus AI, Inc.
[●], 2024

Tempus AI, Inc. (the “**Company**”) announced today that Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC, the lead book-running managers in the Company’s recent public sale of [●] shares of its common stock are [waiving][releasing] a lock-up restriction with respect to [●] shares of the Company’s common stock held by [certain officers or directors] [an officer or director] of the Company. The [waiver][release] will take effect on [●], 2024, and the shares may be sold on or after such date.

This press release is not an offer for sale of the securities in the United States or in any other jurisdiction where such offer is prohibited, and such securities may not be offered or sold in the United States absent registration or an exemption from registration under the United States Securities Act of 1933, as amended.

"TEMPUS

NUMBER

SHARES

INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE

CUSIP 88023B 10 3

SEE REVERSE FOR CERTAIN DEFINITIONS AND LEGENDS

This certifies that

is the record holder of

FULLY PAID AND NONASSESSABLE SHARES OF CLASS A COMMON STOCK, \$0.0001 PAR VALUE PER SHARE, OF
TEMPUS AI, INC.

transferable on the books of the Corporation in person or by duly authorized attorney upon surrender of this Certificate properly endorsed. This Certificate is not valid until countersigned by the Transfer Agent and registered by the Registrar.

WITNESS the facsimile seal of the Corporation and the facsimile signatures of its duly authorized officers.

Dated:

Eric Lifkofsky
CHIEF EXECUTIVE OFFICER
FOUNDER AND CHAIRMAN



James Rogers
CHIEF FINANCIAL OFFICER

COUNTERSIGNED AND REGISTERED
EQUINITI TRUST COMPANY, LLC
TRANSFER AGENT
AND REGISTRAR
BY
AUTHORIZED SIGNATURE

The Corporation shall furnish without charge to each stockholder who so requests a statement of the powers, designations, preferences and relative, participating, optional or other special rights of each class of stock of the Corporation or series thereof and the qualifications, limitations or restrictions of such preferences and/or rights. Such requests shall be made to the Corporation's Secretary at the principal office of the Corporation.

KEEP THIS CERTIFICATE IN A SAFE PLACE. IF IT IS LOST, STOLEN, OR DESTROYED THE CORPORATION WILL REQUIRE A BOND INDEMNITY AS A CONDITION TO THE ISSUANCE OF A REPLACEMENT CERTIFICATE.

The following abbreviations, when used in the inscription on the face of this certificate, shall be construed as though they were written out in full according to applicable laws or regulations:

TEN COM - as tenants in common
TEN ENT - as tenants by the entireties
JT TEN - as joint tenants with right of survivorship and not as tenants in common
COM PROP - as community property

UNIF GIFT MIN ACT - _____ Custodian _____
(Cust) (Minor)
under Uniform Gifts to Minors Act _____
(State)
UNIF TRF MIN ACT - _____ Custodian (until age _____)
(Cust) _____ under Uniform Transfers
(Minor) to Minors Act _____
(State)

Additional abbreviations may also be used though not in the above list.

FOR VALUE RECEIVED, _____ hereby sell(s), assign(s) and transfer(s) unto

PLEASE INSERT SOCIAL SECURITY OR OTHER IDENTIFYING NUMBER OF ASSIGNEE

(PLEASE PRINT OR TYPEWRITE NAME AND ADDRESS, INCLUDING ZIP CODE, OF ASSIGNEE)

_____ sha
of the capital stock represented by within Certificate, and do hereby irrevocably constitute and appoint

_____ attorney-in-fi
to transfer the said stock on the books of the within named Corporation with full power of the substitution in the premises.

Dated _____

X _____
X _____

Signature(s) Guaranteed:

NOTICE: THE SIGNATURE TO THIS ASSIGNMENT MUST CORRESPOND WITH THE NAME AS WRITTEN UPON THE FACE OF THE CERTIFICATE IN EVERY PARTICULAR, WITHOUT ALTERATION OR ENLARGEMENT OR ANY CHANGE WHATSOEVER.

By _____

THE SIGNATURE(S) SHOULD BE GUARANTEED BY AN ELIGIBLE GUARANTOR INSTITUTION, (BANKS, STOCKBROKERS, SAVINGS AND LOAN ASSOCIATIONS AND CREDIT UNIONS WITH MEMBERSHIP IN AN APPROVED SIGNATURE GUARANTEE MEDALLION PROGRAM), PURSUANT TO S.E.C. RULE 17Ad-15. GUARANTEES BY A NOTARY PUBLIC ARE NOT ACCEPTABLE. SIGNATURE GUARANTEES MUST NOT BE DATED.



Christina T. Roupas
T: +1 312 881 6670
croupas@cooley.com

June 5, 2024

Tempus AI, Inc.
600 West Chicago Avenue, Suite 510
Chicago, Illinois 60654

Ladies and Gentlemen:

We have acted as counsel to Tempus AI, Inc., a Delaware corporation (the "**Company**"), in connection with the filing by the Company of a Registration Statement (333-279558) on Form S-1 (the "**Registration Statement**") with the Securities and Exchange Commission (the "**Commission**"), including a related prospectus included in the Registration Statement (the "**Prospectus**"), covering an underwritten public offering of up to 12,765,000 shares (the "**Shares**") of the Company's Class A common stock, par value \$0.0001 per share, including 1,665,000 Shares that may be sold by the Company upon the exercise of an option to purchase additional Shares granted to the underwriters.

In connection with this opinion, we have (i) examined and relied upon (a) the Registration Statement and the Prospectus, (b) the Company's certificate of incorporation and bylaws, each as currently in effect, (c) the forms of the Company's Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws, filed as Exhibits 3.2 and 3.4 to the Registration Statement, respectively, each of which is to be in effect in connection with the closing of the offering contemplated by the Registration Statement, and (d) such other records, documents, opinions, certificates, memoranda and instruments as in our judgment are necessary or appropriate to enable us to render the opinion expressed below and (ii) assumed that the Shares will be sold at a price established by the board of directors of the Company or a duly authorized committee thereof.

We have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity to originals of all documents submitted to us as copies, the accuracy, completeness and authenticity of certificates of public officials, and the due authorization, execution and delivery of all documents by all persons other than the Company where authorization, execution and delivery are prerequisites to the effectiveness thereof. As to certain factual matters, we have relied upon a certificate of an officer of the Company and have not independently verified such matters.

Our opinion is expressed only with respect to the General Corporation Law of the State of Delaware. We express no opinion to the extent that any other laws are applicable to the subject matter hereof and express no opinion and provide no assurance as to compliance with any federal or state securities law, rule or regulation.

On the basis of the foregoing, and in reliance thereon, we are of the opinion that the Shares, when sold and issued against payment therefor as described in the Registration Statement and the Prospectus, will be validly issued, fully paid and nonassessable.

COOLEY LLP 110 N. WACKER DRIVE SUITE 4200 CHICAGO, IL 60606
T: (312) 881-6500 F: (312) 881-6598 COOLEY.COM



Tempus AI, Inc.

Page 2

This opinion is limited to the matters expressly set forth in this letter, and no opinion has been or should be implied, or may be inferred, beyond the matters expressly stated. This opinion speaks only as to law and facts in effect or existing as of the date hereof and we have no obligation or responsibility to update or supplement this letter to reflect any facts or circumstances that may hereafter come to our attention or any changes in law that may hereafter occur.

We consent to the reference to our firm under the caption "Legal Matters" in the Prospectus included in the Registration Statement and to the filing of this opinion as an exhibit to the Registration Statement. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act of 1933, as amended, or the rules and regulations of the Commission thereunder.

Sincerely,

Cooley LLP

By: /s/ Christina T. Roupas

Christina T. Roupas

COOLEY LLP 110 N. WACKER DRIVE SUITE 4200 CHICAGO, IL 60606
T: (312) 881-6500 F: (312) 881-6598 COOLEY.COM

TEMPUS AI, INC.
2024 EQUITY INCENTIVE PLAN

ADOPTED BY THE BOARD OF DIRECTORS: FEBRUARY 1, 2024

APPROVED BY THE STOCKHOLDERS: April 11, 2024

1. GENERAL.

(a) Successor to and Continuation of Prior Plan. The Plan is the successor to and continuation of the Prior Plan. As of the Effective Date, (i) no additional awards may be granted under the Prior Plan; (ii) any Returning Shares will become available for issuance pursuant to Awards granted under this Plan; and (iii) all outstanding awards granted under the Prior Plan will remain subject to the terms of the Prior Plan (except to the extent such outstanding awards result in Returning Shares that become available for issuance pursuant to Awards granted under this Plan). All Awards granted under this Plan will be subject to the terms of this Plan.

(b) Plan Purpose. The Company, by means of the Plan, seeks to secure and retain the services of Employees, Directors and Consultants, to provide incentives for such persons to exert maximum efforts for the success of the Company and any Affiliate and to provide a means by which such persons may be given an opportunity to benefit from increases in value of the Common Stock through the granting of Awards.

(c) Available Awards. The Plan provides for the grant of the following Awards: (i) Incentive Stock Options; (ii) Nonstatutory Stock Options; (iii) SARs; (iv) Restricted Stock Awards; (v) RSU Awards; (vi) Performance Awards; and (vii) Other Awards.

(d) Adoption Date; Effective Date. The Plan will come into existence on the Adoption Date, but no Award may be granted prior to the Effective Date.

2. SHARES SUBJECT TO THE PLAN.

(a) Share Reserve. Subject to adjustment in accordance with Section 2(c) and any adjustments as necessary to implement any Capitalization Adjustments, the aggregate number of shares of Common Stock that may be issued pursuant to Awards will not exceed 7,430,000 shares, provided that such aggregate number of shares of Common Stock will automatically increase on January 1 of each year for a period of ten years commencing on January 1, 2025 and ending on (and including) January 1, 2034, in an amount equal to a number of shares of Common Stock (the “**Evergreen Increase**”) such that the sum of (i) the remaining number of shares available for awards under the Plan and (ii) the Evergreen Increase is equal to five percent (5%) of the total number of shares of Combined Common Stock outstanding on December 31 of the preceding year; provided, however, that the Board may act prior to January 1st of a given year to provide that the increase for such year will be a lesser number of shares of Common Stock.

(b) Aggregate Incentive Stock Option Limit. Notwithstanding anything to the contrary in Section 2(a) and subject to any adjustments as necessary to implement any Capitalization Adjustments, the aggregate maximum number of shares of Common Stock that may be issued pursuant to the exercise of Incentive Stock Options is 22,290,000 shares.

(c) Share Reserve Operation.

(i) Limit Applies to Common Stock Issued Pursuant to Awards. For clarity, the Share Reserve is a limit on the number of shares of Common Stock that may be issued pursuant to Awards and does not limit the granting of Awards, except that the Company will keep available at all times the number of shares of Common Stock reasonably required to satisfy its obligations to issue shares pursuant to such Awards. Shares may be issued in connection with a merger or acquisition as permitted by, as applicable, Nasdaq Listing Rule 5635(c), NYSE Listed Company Manual Section 303A.08, NYSE American Company Guide Section 711 or other applicable rule, and such issuance will not reduce the number of shares available for issuance under the Plan.

(ii) Actions that Do Not Constitute Issuance of Common Stock and Do Not Reduce Share Reserve. The following actions do not result in an issuance of shares under the Plan and accordingly do not reduce the number of shares subject to the Share Reserve and available for issuance under the Plan: (1) the expiration or termination of any portion of an Award without the shares covered by such portion of the Award having been issued; (2) the settlement of any portion of an Award in cash (*i.e.*, the Participant receives cash rather than Common Stock); (3) the withholding of shares that would otherwise be issued by the Company to satisfy the exercise, strike or purchase price of an Award; or (4) the withholding of shares that would otherwise be issued by the Company to satisfy a tax withholding obligation in connection with an Award.

(iii) Reversion of Previously Issued Shares of Common Stock to Share Reserve. The following shares of Common Stock previously issued pursuant to an Award and accordingly initially deducted from the Share Reserve will be added back to the Share Reserve and again become available for issuance under the Plan: (1) any shares that are forfeited back to or repurchased by the Company because of a failure to meet a contingency or condition required for the vesting of such shares; (2) any shares that are reacquired by the Company to satisfy the exercise, strike or purchase price of an Award; and (3) any shares that are reacquired by the Company to satisfy a tax withholding obligation in connection with an Award.

3. ELIGIBILITY AND LIMITATIONS.

(a) Eligible Award Recipients. Subject to the terms of the Plan, Employees, Directors and Consultants are eligible to receive Awards.

(b) Specific Award Limitations.

(i) Limitations on Incentive Stock Option Recipients. Incentive Stock Options may be granted only to Employees of the Company or a “parent corporation” or “subsidiary corporation” thereof (as such terms are defined in Sections 424(e) and (f) of the Code).

(ii) Incentive Stock Option \$100,000 Limitation. To the extent that the aggregate Fair Market Value (determined at the time of grant) of Common Stock with respect to which Incentive Stock Options are exercisable for the first time by any Optionholder during any calendar year (under all plans of the Company and any Affiliates) exceeds \$100,000 (or such

other limit established in the Code) or otherwise does not comply with the rules governing Incentive Stock Options, the Options or portions thereof that exceed such limit (according to the order in which they were granted) or otherwise do not comply with such rules will be treated as Nonstatutory Stock Options, notwithstanding any contrary provision of the applicable Option Agreement(s).

(iii) Limitations on Incentive Stock Options Granted to Ten Percent Stockholders. A Ten Percent Stockholder may not be granted an Incentive Stock Option unless (1) the exercise price of such Option is at least 110% of the Fair Market Value on the date of grant of such Option and (2) the Option is not exercisable after the expiration of five years from the date of grant of such Option.

(iv) Limitations on Nonstatutory Stock Options and SARs. Nonstatutory Stock Options and SARs may not be granted to Employees, Directors and Consultants unless the stock underlying such Awards is treated as “service recipient stock” under Section 409A or unless such Awards otherwise comply with the requirements of Section 409A.

(c) Aggregate Incentive Stock Option Limit. The aggregate maximum number of shares of Common Stock that may be issued pursuant to the exercise of Incentive Stock Options is the number of shares specified in Section 2(b).

(d) Non-Employee Director Compensation Limit. The aggregate value of all compensation granted or paid, as applicable, to any individual for service as a Non-Employee Director with respect to any calendar year, including Awards granted and cash fees paid by the Company to such Non-Employee Director, will not exceed (1) \$750,000 in total value or (2) in the event such Non-Employee Director is first appointed or elected to the Board during such calendar year, \$1,000,000 in total value, in each case, calculating the value of any equity awards based on the grant date fair value of such equity awards for financial reporting purposes. The limitations in this Section 3(d) shall apply commencing with the first calendar year that begins following the Effective Date.

4. OPTIONS AND STOCK APPRECIATION RIGHTS.

Each Option and SAR will have such terms and conditions as determined by the Board. Each Option will be designated in writing as an Incentive Stock Option or Nonstatutory Stock Option at the time of grant; provided, however, that if an Option is not so designated or if an Option designated as an Incentive Stock Option fails to qualify as an Incentive Stock Option, then such Option will be a Nonstatutory Stock Option, and the shares purchased upon exercise of each type of Option will be separately accounted for. Each SAR will be denominated in shares of Common Stock equivalents. The terms and conditions of separate Options and SARs need not be identical; provided, however, that each Option Agreement and SAR Agreement will conform (through incorporation of provisions hereof by reference in the Award Agreement or otherwise) to the substance of each of the following provisions:

(a) Term. Subject to Section 3(b) regarding Ten Percent Stockholders, no Option or SAR will be exercisable after the expiration of ten years from the date of grant of such Award or such shorter period specified in the Award Agreement.

(b) Exercise or Strike Price. Subject to Section 3(b) regarding Ten Percent Stockholders, the exercise or strike price of each Option or SAR will not be less than 100% of the Fair Market Value on the date of grant of such Award. Notwithstanding the foregoing, an Option or SAR may be granted with an exercise or strike price lower than 100% of the Fair Market Value on the date of grant of such Award if such Award is granted pursuant to an assumption of or substitution for another option or stock appreciation right pursuant to a Corporate Transaction and in a manner consistent with the provisions of Sections 409A and, if applicable, 424(a) of the Code.

(c) Exercise Procedure and Payment of Exercise Price for Options. In order to exercise an Option, the Participant must provide notice of exercise to the Plan Administrator in accordance with the procedures specified in the Option Agreement or otherwise provided by the Company. The Board has the authority to grant Options that do not permit all of the following methods of payment (or otherwise restrict the ability to use certain methods) and to grant Options that require the consent of the Company to utilize a particular method of payment. The exercise price of an Option may be paid, to the extent permitted by Applicable Law and as determined by the Board, by one or more of the following methods of payment to the extent set forth in the Option Agreement:

(i) by cash or check, bank draft or money order payable to the Company;

(ii) pursuant to a “cashless exercise” program developed under Regulation T as promulgated by the Federal Reserve Board that, prior to the issuance of the Common Stock subject to the Option, results in either the receipt of cash (or check) by the Company or the receipt of irrevocable instructions to pay the exercise price to the Company from the sales proceeds;

(iii) by delivery to the Company (either by actual delivery or attestation) of shares of Common Stock that are already owned by the Participant free and clear of any liens, claims, encumbrances or security interests, with a Fair Market Value on the date of exercise that does not exceed the exercise price, provided that (1) at the time of exercise the Common Stock is publicly traded, (2) any remaining balance of the exercise price not satisfied by such delivery is paid by the Participant in cash or other permitted form of payment, (3) such delivery would not violate any Applicable Law or agreement restricting the redemption of the Common Stock, (4) any certificated shares are endorsed or accompanied by an executed assignment separate from certificate, and (5) such shares have been held by the Participant for any minimum period necessary to avoid adverse accounting treatment as a result of such delivery;

(iv) if the Option is a Nonstatutory Stock Option, by a “net exercise” arrangement pursuant to which the Company will reduce the number of shares of Common Stock issuable upon exercise by the largest whole number of shares with a Fair Market Value on the date of exercise that does not exceed the exercise price, provided that (1) such shares used to pay the exercise price will not be exercisable thereafter and (2) any remaining balance of the exercise price not satisfied by such net exercise is paid by the Participant in cash or other permitted form of payment; or

(v) in any other form of consideration that may be acceptable to the Board and permissible under Applicable Law.

(d) Exercise Procedure and Payment of Appreciation Distribution for SARs. In order to exercise any SAR, the Participant must provide notice of exercise to the Plan Administrator in accordance with the SAR Agreement. The appreciation distribution payable to a Participant upon the exercise of a SAR will not be greater than an amount equal to the excess of (i) the aggregate Fair Market Value on the date of exercise of a number of shares of Common Stock equal to the number of Common Stock equivalents that are vested and being exercised under such SAR, over (ii) the strike price of such SAR. Such appreciation distribution may be paid to the Participant in the form of Common Stock or cash (or any combination of Common Stock and cash) or in any other form of payment, as determined by the Board and specified in the SAR Agreement.

(e) Transferability. Options and SARs may not be transferred to third party financial institutions for value. The Board may impose such additional limitations on the transferability of an Option or SAR as it determines. In the absence of any such determination by the Board, the following restrictions on the transferability of Options and SARs will apply, provided that except as explicitly provided herein, neither an Option nor a SAR may be transferred for consideration and *provided, further*, that if an Option is an Incentive Stock Option, such Option may be deemed to be a Nonstatutory Stock Option as a result of such transfer:

(i) Restrictions on Transfer. An Option or SAR will not be transferable, except by will or by the laws of descent and distribution, and will be exercisable during the lifetime of the Participant only by the Participant; provided, however, that the Board may permit transfer of an Option or SAR in a manner that is not prohibited by applicable tax and securities laws upon the Participant's request, including to a trust if the Participant is considered to be the sole beneficial owner of such trust (as determined under Section 671 of the Code and applicable state law) while such Option or SAR is held in such trust, provided that the Participant and the trustee enter into a transfer and other agreements required by the Company.

(ii) Domestic Relations Orders. Notwithstanding the foregoing, subject to the execution of transfer documentation in a format acceptable to the Company and subject to the approval of the Board or a duly authorized Officer, an Option or SAR may be transferred pursuant to a domestic relations order.

(f) Vesting. The Board may impose such restrictions on or conditions to the vesting and/or exercisability of an Option or SAR as determined by the Board. Except as otherwise provided in the Award Agreement or other written agreement between a Participant and the Company or an Affiliate, vesting of Options and SARs will cease upon termination of the Participant's Continuous Service.

(g) Termination of Continuous Service for Cause. Except as explicitly otherwise provided in the Award Agreement or other written agreement between a Participant and the Company or an Affiliate, if a Participant's Continuous Service is terminated for Cause, the Participant's Options and SARs will terminate and be forfeited immediately upon such termination of Continuous Service, and the Participant will be prohibited from exercising any portion (including any vested portion) of such Awards on and after the date of such termination of Continuous Service and the Participant will have no further right, title or interest in such forfeited Award, the shares of Common Stock subject to the forfeited Award, or any consideration in respect of the forfeited Award.

(h) Post-Termination Exercise Period Following Termination of Continuous Service for Reasons Other than Cause. Subject to Section 4(i), if a Participant's Continuous Service terminates for any reason other than for Cause, the Participant may exercise his or her Option or SAR to the extent vested, but only within the following period of time or, if applicable, such other period of time provided in the Award Agreement or other written agreement between a Participant and the Company or an Affiliate; provided, however, that in no event may such Award be exercised after the expiration of its maximum term (as set forth in Section 4(a)):

(i) three months following the date of such termination if such termination is a termination without Cause (other than any termination due to the Participant's Disability or death);

(ii) 12 months following the date of such termination if such termination is due to the Participant's Disability;

(iii) 18 months following the date of such termination if such termination is due to the Participant's death; or

(iv) 18 months following the date of the Participant's death if such death occurs following the date of such termination but during the period such Award is otherwise exercisable (as provided in (i) or (ii) above).

Following the date of such termination, to the extent the Participant does not exercise such Award within the applicable Post-Termination Exercise Period (or, if earlier, prior to the expiration of the maximum term of such Award), such unexercised portion of the Award will terminate, and the Participant will have no further right, title or interest in the terminated Award, the shares of Common Stock subject to the terminated Award, or any consideration in respect of the terminated Award.

(i) Restrictions on Exercise; Extension of Exercisability. A Participant may not exercise an Option or SAR at any time that the issuance of shares of Common Stock upon such exercise would violate Applicable Law. Except as otherwise provided in the Award Agreement or other written agreement between a Participant and the Company or an Affiliate, if a Participant's Continuous Service terminates for any reason other than for Cause and, at any time during the last thirty days of the applicable Post-Termination Exercise Period: (i) the exercise of the Participant's Option or SAR would be prohibited solely because the issuance of shares of Common Stock upon such exercise would violate Applicable Law, or (ii) the immediate sale of any shares of Common Stock issued upon such exercise would violate the Company's Trading Policy, then the applicable Post-Termination Exercise Period will be extended to the last day of the calendar month that commences following the date the Award would otherwise expire, with an additional extension of the exercise period to the last day of the next calendar month to apply if any of the foregoing restrictions apply at any time during such extended exercise period, generally without limitation as to the maximum permitted number of extensions); provided, however, that in no event may such Award be exercised after the expiration of its maximum term (as set forth in Section 4(a)).

(j) Non-Exempt Employees. No Option or SAR, whether or not vested, granted to an Employee who is a non-exempt employee for purposes of the Fair Labor Standards Act of 1938, as amended, will be first exercisable for any shares of Common Stock until at least six months following the date of grant of such Award. Notwithstanding the foregoing, in accordance with the provisions of the Worker Economic Opportunity Act, any vested portion of such Award may be exercised earlier than six months following the date of grant of such Award in the event of (i) such Participant's death or Disability, (ii) a Corporate Transaction in which such Award is not assumed, continued or substituted, (iii) a Change in Control, or (iv) such Participant's retirement (as such term may be defined in the Award Agreement or another applicable agreement or, in the absence of any such definition, in accordance with the Company's then current employment policies and guidelines). This Section 4(j) is intended to operate so that any income derived by a non-exempt employee in connection with the exercise or vesting of an Option or SAR will be exempt from his or her regular rate of pay.

(k) Whole Shares. Options and SARs may be exercised only with respect to whole shares of Common Stock or their equivalents.

5. AWARDS OTHER THAN OPTIONS AND STOCK APPRECIATION RIGHTS.

(a) Restricted Stock Awards and RSU Awards. Each Restricted Stock Award and RSU Award will have such terms and conditions as determined by the Board; provided, however, that each Restricted Stock Award Agreement and RSU Award Agreement will conform (through incorporation of the provisions hereof by reference in the Award Agreement or otherwise) to the substance of each of the following provisions:

(i) Form of Award.

(1) Restricted Stock Awards: To the extent consistent with the Company's Bylaws, at the Board's election, shares of Common Stock subject to a Restricted Stock Award may be (A) held in book entry form subject to the Company's instructions until such shares become vested or any other restrictions lapse, or (B) evidenced by a certificate, which certificate will be held in such form and manner as determined by the Board. Unless otherwise determined by the Board, a Participant will have voting and other rights as a stockholder of the Company with respect to any shares subject to a Restricted Stock Award.

(2) RSU Awards: An RSU Award represents a Participant's right to be issued on a future date the number of shares of Common Stock that is equal to the number of restricted stock units subject to the RSU Award. As a holder of an RSU Award, a Participant is an unsecured creditor of the Company with respect to the Company's unfunded obligation, if any, to issue shares of Common Stock in settlement of such Award and nothing contained in the Plan or any RSU Agreement, and no action taken pursuant to its provisions, will create or be construed to create a trust of any kind or a fiduciary relationship between a Participant and the Company or an Affiliate or any other person. A Participant will not have voting or any other rights as a stockholder of the Company with respect to any RSU Award (unless and until shares are actually issued in settlement of a vested RSU Award).

(ii) Consideration.

(1) Restricted Stock Awards: A Restricted Stock Award may be granted in consideration for (A) cash or check, bank draft or money order payable to the Company, (B) services to the Company or an Affiliate, or (C) any other form of consideration as the Board may determine and permissible under Applicable Law.

(2) RSU Awards: Unless otherwise determined by the Board at the time of grant, an RSU Award will be granted in consideration for the Participant's services to the Company or an Affiliate, such that the Participant will not be required to make any payment to the Company (other than such services) with respect to the grant or vesting of the RSU Award, or the issuance of any shares of Common Stock pursuant to the RSU Award. If, at the time of grant, the Board determines that any consideration must be paid by the Participant (in a form other than the Participant's services to the Company or an Affiliate) upon the issuance of any shares of Common Stock in settlement of the RSU Award, such consideration may be paid in any form of consideration as the Board may determine and permissible under Applicable Law.

(iii) Vesting. The Board may impose such restrictions on or conditions to the vesting of a Restricted Stock Award or RSU Award as determined by the Board. Except as otherwise provided in the Award Agreement or other written agreement between a Participant and the Company or an Affiliate, vesting of Restricted Stock Awards and RSU Awards will cease upon termination of the Participant's Continuous Service.

(iv) Termination of Continuous Service. Except as otherwise provided in the Award Agreement or other written agreement between a Participant and the Company or an Affiliate, if a Participant's Continuous Service terminates for any reason, (1) the Company may receive through a forfeiture condition or a repurchase right any or all of the shares of Common Stock held by the Participant under his or her Restricted Stock Award that have not vested as of the date of such termination as set forth in the Restricted Stock Award Agreement and the Participant will have no further right, title or interest in the Restricted Stock Award, the shares of Common Stock subject to the Restricted Stock Award, or any consideration in respect of the Restricted Stock Award and (2) any portion of his or her RSU Award that has not vested will be forfeited upon such termination and the Participant will have no further right, title or interest in the RSU Award, the shares of Common Stock issuable pursuant to the RSU Award, or any consideration in respect of the RSU Award.

(v) Dividends and Dividend Equivalents. Dividends or dividend equivalents may be paid or credited, as applicable, with respect to any shares of Common Stock subject to a Restricted Stock Award or RSU Award, as determined by the Board and specified in the Award Agreement.

(vi) Settlement of RSU Awards. An RSU Award may be settled by the issuance of shares of Common Stock or cash (or any combination thereof) or in any other form of payment, as determined by the Board and specified in the RSU Award Agreement. At the time of grant, the Board may determine to impose such restrictions or conditions that delay such delivery to a date following the vesting of the RSU Award.

(b) Performance Awards. With respect to any Performance Award, the length of any Performance Period, the Performance Goals to be achieved during the Performance Period, the other terms and conditions of such Award, and the measure of whether and to what degree such Performance Goals have been attained will be determined by the Board.

(c) **Other Awards.** Other forms of Awards valued in whole or in part by reference to, or otherwise based on, Common Stock, including the appreciation in value thereof, may be granted either alone or in addition to Awards provided for under Section 4 and the preceding provisions of this Section 5. Subject to the provisions of the Plan, the Board will have sole and complete discretion to determine the persons to whom and the time or times at which such Other Awards will be granted, the number of shares of Common Stock (or the cash equivalent thereof) to be granted pursuant to such Other Awards and all other terms and conditions of such Other Awards.

6. ADJUSTMENTS UPON CHANGES IN COMMON STOCK; OTHER CORPORATE EVENTS.

(a) **Capitalization Adjustments.** In the event of a Capitalization Adjustment, the Board shall appropriately and proportionately adjust: (i) the class(es) and maximum number of shares of Common Stock subject to the Plan and the maximum number of shares by which the Share Reserve may annually increase pursuant to Section 2(a); (ii) the class(es) and maximum number of shares that may be issued pursuant to the exercise of Incentive Stock Options pursuant to Section 2(b); and (iii) the class(es) and number of securities and exercise price, strike price or purchase price of Common Stock subject to outstanding Awards. The Board shall make such adjustments, and its determination shall be final, binding and conclusive. Notwithstanding the foregoing, no fractional shares or rights for fractional shares of Common Stock shall be created in order to implement any Capitalization Adjustment. The Board shall determine an appropriate equivalent benefit, if any, for any fractional shares or rights to fractional shares that might be created by the adjustments referred to in the preceding provisions of this Section.

(b) **Dissolution or Liquidation.** Except as otherwise provided in the Award Agreement, in the event of a dissolution or liquidation of the Company, all outstanding Awards (other than Awards consisting of vested and outstanding shares of Common Stock not subject to a forfeiture condition or the Company's right of repurchase) will terminate immediately prior to the completion of such dissolution or liquidation, and the shares of Common Stock subject to the Company's repurchase rights or subject to a forfeiture condition may be repurchased or reacquired by the Company notwithstanding the fact that the holder of such Award is providing Continuous Service, provided, however, that the Board may determine to cause some or all Awards to become fully vested, exercisable and/or no longer subject to repurchase or forfeiture (to the extent such Awards have not previously expired or terminated) before the dissolution or liquidation is completed but contingent on its completion.

(c) **Corporate Transaction.** The following provisions will apply to Awards in the event of a Corporate Transaction, except as set forth in Section 11, unless otherwise provided in the instrument evidencing the Award or any other written agreement between the Company or any Affiliate and the Participant or unless otherwise expressly provided by the Board at the time of grant of an Award.

(i) **Awards May Be Assumed.** In the event of a Corporate Transaction, any surviving corporation or acquiring corporation (or the surviving or acquiring corporation's parent company) may assume or continue any or all Awards outstanding under the Plan or may substitute

similar awards for Awards outstanding under the Plan (including but not limited to, awards to acquire the same consideration paid to the stockholders of the Company pursuant to the Corporate Transaction), and any reacquisition or repurchase rights held by the Company in respect of Common Stock issued pursuant to Awards may be assigned by the Company to the successor of the Company (or the successor's parent company, if any), in connection with such Corporate Transaction. A surviving corporation or acquiring corporation (or its parent) may choose to assume or continue only a portion of an Award or substitute a similar award for only a portion of an Award, or may choose to assume or continue the Awards held by some, but not all Participants. The terms of any assumption, continuation or substitution will be set by the Board.

(ii) Awards Held by Current Participants. In the event of a Corporate Transaction in which the surviving corporation or acquiring corporation (or its parent company) does not assume or continue such outstanding Awards or substitute similar awards for such outstanding Awards, then with respect to Awards that have not been assumed, continued or substituted and that are held by Participants whose Continuous Service has not terminated prior to the effective time of the Corporate Transaction (referred to as the "**Current Participants**"), the vesting of such Awards (and, with respect to Options and Stock Appreciation Rights, the time when such Awards may be exercised) will be accelerated in full to a date prior to the effective time of such Corporate Transaction (contingent upon the effectiveness of the Corporate Transaction) as the Board determines (or, if the Board does not determine such a date, to the date that is five days prior to the effective time of the Corporate Transaction), and such Awards will terminate if not exercised (if applicable) at or prior to the effective time of the Corporate Transaction, and any reacquisition or repurchase rights held by the Company with respect to such Awards will lapse (contingent upon the effectiveness of the Corporate Transaction). With respect to the vesting of Performance Awards that will accelerate upon the occurrence of a Corporate Transaction pursuant to this subsection (ii) and that have multiple vesting levels depending on the level of performance, unless otherwise provided in the Award Agreement, the vesting of such Performance Awards will accelerate at 100% of the target level upon the occurrence of the Corporate Transaction in which the Awards are not assumed, continued or substituted in accordance with Section 6(c)(i). With respect to the vesting of Awards that will accelerate upon the occurrence of a Corporate Transaction pursuant to this subsection (ii) and are settled in the form of a cash payment, such cash payment will be made no later than 30 days following the occurrence of the Corporate Transaction or such later date as required to comply with Section 409A of the Code.

(iii) Awards Held by Persons other than Current Participants. In the event of a Corporate Transaction in which the surviving corporation or acquiring corporation (or its parent company) does not assume or continue such outstanding Awards or substitute similar awards for such outstanding Awards, then with respect to Awards that have not been assumed, continued or substituted and that are held by persons other than Current Participants, such Awards will terminate if not exercised (if applicable) prior to the occurrence of the Corporate Transaction; provided, however, that any reacquisition or repurchase rights held by the Company with respect to such Awards will not terminate and may continue to be exercised notwithstanding the Corporate Transaction.

(iv) Payment for Awards in Lieu of Exercise. Notwithstanding the foregoing, in the event an Award will terminate if not exercised prior to the effective time of a

Corporate Transaction, the Board may provide, in its sole discretion, that the holder of such Award may not exercise such Award but will receive a payment, in such form as may be determined by the Board, equal in value, at the effective time, to the excess, if any, of (1) the value of the property the Participant would have received upon the exercise of the Award (including, at the discretion of the Board, any unvested portion of such Award), over (2) any exercise price payable by such holder in connection with such exercise.

(d) Appointment of Stockholder Representative. As a condition to the receipt of an Award under this Plan, a Participant will be deemed to have agreed that the Award will be subject to the terms of any agreement governing a Corporate Transaction involving the Company, including, without limitation, a provision for the appointment of a stockholder representative that is authorized to act on the Participant's behalf with respect to any escrow, indemnities and any contingent consideration.

(e) No Restriction on Right to Undertake Transactions. The grant of any Award under the Plan and the issuance of shares pursuant to any Award does not affect or restrict in any way the right or power of the Company or the stockholders of the Company to make or authorize any adjustment, recapitalization, reorganization or other change in the Company's capital structure or its business, any merger or consolidation of the Company, any issue of stock or of options, rights or options to purchase stock or of bonds, debentures, preferred or prior preference stocks whose rights are superior to or affect the Common Stock or the rights thereof or which are convertible into or exchangeable for Common Stock, or the dissolution or liquidation of the Company, or any sale or transfer of all or any part of its assets or business, or any other corporate act or proceeding, whether of a similar character or otherwise.

7. ADMINISTRATION.

(a) Administration by Board. The Board will administer the Plan unless and until the Board delegates administration of the Plan to a Committee or Committees, as provided in subsection (c) below.

(b) Powers of Board. The Board will have the power, subject to, and within the limitations of, the express provisions of the Plan:

(i) To determine from time to time (1) which of the persons eligible under the Plan will be granted Awards; (2) when and how each Award will be granted; (3) what type or combination of types of Award will be granted; (4) the provisions of each Award granted (which need not be identical), including the time or times when a person will be permitted to receive an issuance of Common Stock or other payment pursuant to an Award; (5) the number of shares of Common Stock or cash equivalent with respect to which an Award will be granted to each such person; (6) the Fair Market Value applicable to an Award; and (7) the terms of any Performance Award that is not valued in whole or in part by reference to, or otherwise based on, the Common Stock, including the amount of cash payment or other property that may be earned and the timing of payment.

(ii) To construe and interpret the Plan and Awards granted under it, and to establish, amend and revoke rules and regulations for its administration. The Board, in the

exercise of this power, may correct any defect, omission or inconsistency in the Plan or in any Award Agreement, in a manner and to the extent it deems necessary or expedient to make the Plan or Award fully effective.

(iii) To settle all controversies regarding the Plan and Awards granted under it.

(iv) To accelerate the time at which an Award may first be exercised or the time during which an Award or any part thereof will vest, notwithstanding the provisions in the Award Agreement stating the time at which it may first be exercised or the time during which it will vest.

(v) To prohibit the exercise of any Option, SAR or other exercisable Award during a period of up to 30 days prior to the consummation of any pending stock dividend, stock split, combination or exchange of shares, merger, consolidation or other distribution (other than normal cash dividends) of Company assets to stockholders, or any other change affecting the shares of Common Stock or the share price of the Common Stock including any Corporate Transaction, for reasons of administrative convenience.

(vi) To suspend or terminate the Plan at any time. Suspension or termination of the Plan will not Materially Impair rights and obligations under any Award granted while the Plan is in effect except with the written consent of the affected Participant.

(vii) To amend the Plan in any respect the Board deems necessary or advisable; provided, however, that stockholder approval will be required for any amendment to the extent required by Applicable Law. Except as provided above, rights under any Award granted before amendment of the Plan will not be Materially Impaired by any amendment of the Plan unless (1) the Company requests the consent of the affected Participant, and (2) such Participant consents in writing.

(viii) To submit any amendment to the Plan for stockholder approval.

(ix) To approve forms of Award Agreements for use under the Plan and to amend the terms of any one or more Awards, including, but not limited to, amendments to provide terms more favorable to the Participant than previously provided in the Award Agreement, subject to any specified limits in the Plan that are not subject to Board discretion; *provided however*, that, a Participant's rights under any Award will not be Materially Impaired by any such amendment unless (1) the Company requests the consent of the affected Participant, and (2) such Participant consents in writing.

(x) Generally, to exercise such powers and to perform such acts as the Board deems necessary or expedient to promote the best interests of the Company and that are not in conflict with the provisions of the Plan or Awards.

(xi) To adopt such procedures and sub-plans as are necessary or appropriate to permit and facilitate participation in the Plan by, or take advantage of specific tax treatment for Awards granted to, Employees, Directors or Consultants who are foreign nationals or employed outside the United States (provided that Board approval will not be necessary for immaterial modifications to the Plan or any Award Agreement to ensure or facilitate compliance with the laws of the relevant foreign jurisdiction).

(xii) To effect, at any time and from time to time, subject to the consent of any Participant whose Award is Materially Impaired by such action, (1) the reduction of the exercise price (or strike price) of any outstanding Option or SAR; (2) the cancellation of any outstanding Option or SAR and the grant in substitution therefor of (A) a new Option, SAR, Restricted Stock Award, RSU Award or Other Award, under the Plan or another equity plan of the Company, covering the same or a different number of shares of Common Stock, (B) cash and/or (C) other valuable consideration (as determined by the Board); or (3) any other action that is treated as a repricing under generally accepted accounting principles.

(c) Delegation to Committee.

(i) **General.** The Board may delegate some or all of the administration of the Plan to a Committee or Committees. If administration of the Plan is delegated to a Committee, the Committee will have, in connection with the administration of the Plan, the powers theretofore possessed by the Board that have been delegated to the Committee, including the power to delegate to another Committee or a subcommittee of the Committee any of the administrative powers the Committee is authorized to exercise (and references in this Plan to the Board will thereafter be to the Committee or subcommittee), subject, however, to such resolutions, not inconsistent with the provisions of the Plan, as may be adopted from time to time by the Board. Each Committee may retain the authority to concurrently administer the Plan with Committee or subcommittee to which it has delegated its authority hereunder and may, at any time, revert in such Committee some or all of the powers previously delegated. The Board may retain the authority to concurrently administer the Plan with any Committee and may, at any time, revert in the Board some or all of the powers previously delegated.

(ii) **Rule 16b-3 Compliance.** To the extent an Award is intended to qualify for the exemption from Section 16(b) of the Exchange Act that is available under Rule 16b-3 of the Exchange Act, the Award will be granted by the Board or a Committee that consists solely of two or more Non-Employee Directors, as determined under Rule 16b-3(b)(3) of the Exchange Act and thereafter any action establishing or modifying the terms of the Award will be approved by the Board or a Committee meeting such requirements to the extent necessary for such exemption to remain available.

(d) **Effect of Board's Decision.** All determinations, interpretations and constructions made by the Board or any Committee in good faith will not be subject to review by any person and will be final, binding and conclusive on all persons.

(e) **Delegation to Other Person or Body.** The Board or any Committee may delegate to one or more persons or bodies the authority to do one or more of the following to the extent permitted by Applicable Law: (i) designate recipients, other than Officers, of Options and SARs (and, to the extent permitted by Applicable Law, other Awards), provided that no person or body may be delegated authority to grant an Award to himself; (ii) determine the number of shares subject to such Awards; and (iii) determine the terms of such Awards; *provided, however*, that the Board or Committee action regarding such delegation will fix the terms of such delegation in accordance with Applicable Law, including without limitation Sections 152 and 157 of the Delaware General Corporation Law. Unless provided otherwise in the Board or Committee action regarding such delegation, each Award granted pursuant to this section will be granted on the

applicable form of Award Agreement most recently approved for use by the Board or the Committee, with any modifications necessary to incorporate or reflect the terms of such Award. Notwithstanding anything to the contrary herein, neither the Board nor any Committee may delegate to any person or body (who is not a Director or that is not comprised solely of Directors, respectively) the authority to determine the Fair Market Value.

8. TAX WITHHOLDING

(a) Withholding Authorization. As a condition to acceptance of any Award under the Plan, a Participant authorizes withholding from payroll and any other amounts payable to such Participant, and otherwise agrees to make adequate provision for (including), any sums required to satisfy any U.S. federal, state, local and/or foreign tax or social insurance contribution withholding obligations of the Company or an Affiliate, if any, which arise in connection with the exercise, vesting or settlement of such Award, as applicable. Accordingly, a Participant may not be able to exercise an Award even though the Award is vested, and the Company shall have no obligation to issue shares of Common Stock subject to an Award, unless and until such obligations are satisfied.

(b) Satisfaction of Withholding Obligation. To the extent permitted by the terms of an Award Agreement, the Company may, in its sole discretion, satisfy any U.S. federal, state, local and/or foreign tax or social insurance withholding obligation relating to an Award by any of the following means or by a combination of such means: (i) causing the Participant to tender a cash payment; (ii) withholding shares of Common Stock from the shares of Common Stock issued or otherwise issuable to the Participant in connection with the Award; (iii) withholding cash from an Award settled in cash; (iv) withholding payment from any amounts otherwise payable to the Participant; (v) by allowing a Participant to effectuate a “cashless exercise” pursuant to a program developed under Regulation T as promulgated by the Federal Reserve Board; or (vi) by such other method as may be set forth in the Award Agreement.

(c) No Obligation to Notify or Minimize Taxes; No Liability to Claims. Except as required by Applicable Law the Company has no duty or obligation to any Participant to advise such holder as to the time or manner of exercising such Award. Furthermore, the Company has no duty or obligation to warn or otherwise advise such holder of a pending termination or expiration of an Award or a possible period in which the Award may not be exercised. The Company has no duty or obligation to minimize the tax consequences of an Award to the holder of such Award and will not be liable to any holder of an Award for any adverse tax consequences to such holder in connection with an Award. As a condition to accepting an Award under the Plan, each Participant (i) agrees to not make any claim against the Company, or any of its Officers, Directors, Employees or Affiliates related to tax liabilities arising from such Award or other Company compensation and (ii) acknowledges that such Participant was advised to consult with his or her own personal tax, financial and other legal advisors regarding the tax consequences of the Award and has either done so or knowingly and voluntarily declined to do so. Additionally, each Participant acknowledges any Option or SAR granted under the Plan is exempt from Section 409A only if the exercise or strike price is at least equal to the “fair market value” of the Common Stock on the date of grant as determined by the Internal Revenue Service and there is no other impermissible deferral of compensation associated with the Award. Additionally, as a condition to accepting an Option or SAR granted under the Plan, each Participant agrees not make any claim

against the Company, or any of its Officers, Directors, Employees or Affiliates in the event that the Internal Revenue Service asserts that such exercise price or strike price is less than the “fair market value” of the Common Stock on the date of grant as subsequently determined by the Internal Revenue Service.

(d) Withholding Indemnification. As a condition to accepting an Award under the Plan, in the event that the amount of the Company’s and/or its Affiliate’s withholding obligation in connection with such Award was greater than the amount actually withheld by the Company and/or its Affiliates, each Participant agrees to indemnify and hold the Company and/or its Affiliates harmless from any failure by the Company and/or its Affiliates to withhold the proper amount.

9. MISCELLANEOUS.

(a) Source of Shares. The stock issuable under the Plan will be shares of authorized but unissued or reacquired Common Stock, including shares repurchased by the Company on the open market or otherwise.

(b) Use of Proceeds from Sales of Common Stock. Proceeds from the sale of shares of Common Stock pursuant to Awards will constitute general funds of the Company.

(c) Corporate Action Constituting Grant of Awards. Corporate action constituting a grant by the Company of an Award to any Participant will be deemed completed as of the date of such corporate action, unless otherwise determined by the Board, regardless of when the instrument, certificate, or letter evidencing the Award is communicated to, or actually received or accepted by, the Participant. In the event that the corporate records (e.g., Board consents, resolutions or minutes) documenting the corporate action approving the grant contain terms (e.g., exercise price, vesting schedule or number of shares) that are inconsistent with those in the Award Agreement or related grant documents as a result of a clerical error in the Award Agreement or related grant documents, the corporate records will control and the Participant will have no legally binding right to the incorrect term in the Award Agreement or related grant documents.

(d) Stockholder Rights. No Participant will be deemed to be the holder of, or to have any of the rights of a holder with respect to, any shares of Common Stock subject to such Award unless and until (i) such Participant has satisfied all requirements for exercise of the Award pursuant to its terms, if applicable, and (ii) the issuance of the Common Stock subject to such Award is reflected in the records of the Company.

(e) No Employment or Other Service Rights. Nothing in the Plan, any Award Agreement or any other instrument executed thereunder or in connection with any Award granted pursuant thereto will confer upon any Participant any right to continue to serve the Company or an Affiliate in the capacity in effect at the time the Award was granted or affect the right of the Company or an Affiliate to terminate at will and without regard to any future vesting opportunity that a Participant may have with respect to any Award (i) the employment of an Employee with or without notice and with or without cause, (ii) the service of a Consultant pursuant to the terms of such Consultant’s agreement with the Company or an Affiliate, or (iii) the service of a Director pursuant to the Bylaws of the Company or an Affiliate, and any applicable provisions of the

corporate law of the state or foreign jurisdiction in which the Company or the Affiliate is incorporated, as the case may be. Further, nothing in the Plan, any Award Agreement or any other instrument executed thereunder or in connection with any Award will constitute any promise or commitment by the Company or an Affiliate regarding the fact or nature of future positions, future work assignments, future compensation or any other term or condition of employment or service or confer any right or benefit under the Award or the Plan unless such right or benefit has specifically accrued under the terms of the Award Agreement and/or Plan.

(f) Change in Time Commitment. In the event a Participant's regular level of time commitment in the performance of his or her services for the Company and any Affiliates is reduced (for example, and without limitation, if the Participant is an Employee of the Company and the Employee has a change in status from a full-time Employee to a part-time Employee or takes an extended leave of absence) after the date of grant of any Award to the Participant, the Board may determine, to the extent permitted by Applicable Law, to (i) make a corresponding reduction in the number of shares or cash amount subject to any portion of such Award that is scheduled to vest or become payable after the date of such change in time commitment, and (ii) in lieu of or in combination with such a reduction, extend the vesting or payment schedule applicable to such Award. In the event of any such reduction, the Participant will have no right with respect to any portion of the Award that is so reduced or extended.

(g) Execution of Additional Documents. As a condition to accepting an Award under the Plan, the Participant agrees to execute any additional documents or instruments necessary or desirable, as determined in the Plan Administrator's sole discretion, to carry out the purposes or intent of the Award, or facilitate compliance with securities and/or other regulatory requirements, in each case at the Plan Administrator's request.

(h) Electronic Delivery and Participation. Any reference herein or in an Award Agreement to a "written" agreement or document will include any agreement or document delivered electronically, filed publicly at www.sec.gov (or any successor website thereto) or posted on the Company's intranet (or other shared electronic medium controlled by the Company to which the Participant has access). By accepting any Award the Participant consents to receive documents by electronic delivery and to participate in the Plan through any on-line electronic system established and maintained by the Plan Administrator or another third party selected by the Plan Administrator. The form of delivery of any Common Stock (e.g., a stock certificate or electronic entry evidencing such shares) shall be determined by the Company.

(i) Clawback/Recovery. All Awards granted under the Plan will be subject to recoupment in accordance with any clawback policy that the Company is required to adopt pursuant to the listing standards of any national securities exchange or association on which the Company's securities are listed or as is otherwise required by the Dodd-Frank Wall Street Reform and Consumer Protection Act or other Applicable Law and any clawback policy that the Company otherwise adopts, to the extent applicable and permissible under Applicable Law. In addition, the Board may impose such other clawback, recovery or recoupment provisions in an Award Agreement as the Board determines necessary or appropriate, including but not limited to a reacquisition right in respect of previously acquired shares of Common Stock or other cash or property upon the occurrence of Cause. No recovery of compensation under such a clawback policy will be an event giving rise to a Participant's right to voluntarily terminate employment upon a "resignation for good reason," or for a "constructive termination" or any similar term under any plan of or agreement with the Company.

(j) Securities Law Compliance. A Participant will not be issued any shares in respect of an Award unless either (i) the shares are registered under the Securities Act; or (ii) the Company has determined that such issuance would be exempt from the registration requirements of the Securities Act. Each Award also must comply with other Applicable Law governing the Award, and a Participant will not receive such shares if the Company determines that such receipt would not be in material compliance with Applicable Law.

(k) Transfer or Assignment of Awards; Issued Shares. Except as expressly provided in the Plan or the form of Award Agreement, Awards granted under the Plan may not be transferred or assigned by the Participant. After the vested shares subject to an Award have been issued, or in the case of Restricted Stock and similar awards, after the issued shares have vested, the holder of such shares is free to assign, hypothecate, donate, encumber or otherwise dispose of any interest in such shares provided that any such actions are in compliance with the provisions herein, the terms of the Trading Policy and Applicable Law.

(l) Effect on Other Employee Benefit Plans. The value of any Award granted under the Plan, as determined upon grant, vesting or settlement, shall not be included as compensation, earnings, salaries, or other similar terms used when calculating any Participant's benefits under any employee benefit plan sponsored by the Company or any Affiliate, except as such plan otherwise expressly provides. The Company expressly reserves its rights to amend, modify, or terminate any of the Company's or any Affiliate's employee benefit plans.

(m) Deferrals. To the extent permitted by Applicable Law, the Board, in its sole discretion, may determine that the delivery of Common Stock or the payment of cash, upon the exercise, vesting or settlement of all or a portion of any Award may be deferred and may also establish programs and procedures for deferral elections to be made by Participants. Deferrals will be made in accordance with the requirements of Section 409A.

(n) Section 409A. Unless otherwise expressly provided for in an Award Agreement, the Plan and Award Agreements will be interpreted to the greatest extent possible in a manner that makes the Plan and the Awards granted hereunder exempt from Section 409A, and, to the extent not so exempt, in compliance with the requirements of Section 409A. If the Board determines that any Award granted hereunder is not exempt from and is therefore subject to Section 409A, the Award Agreement evidencing such Award will incorporate the terms and conditions necessary to avoid the consequences specified in Section 409A(a)(1) of the Code, and to the extent an Award Agreement is silent on terms necessary for compliance, such terms are hereby incorporated by reference into the Award Agreement. Notwithstanding anything to the contrary in this Plan (and unless the Award Agreement specifically provides otherwise), if the shares of Common Stock are publicly traded, and if a Participant holding an Award that constitutes "deferred compensation" under Section 409A is a "specified employee" for purposes of Section 409A, no distribution or payment of any amount that is due because of a "separation from service" (as defined in Section 409A without regard to alternative definitions thereunder) will be issued or paid before the date that is six months and one day following the date of such Participant's "separation from service" or, if earlier, the date of the Participant's death, unless such distribution or payment can be made

in a manner that complies with Section 409A, and any amounts so deferred will be paid in a lump sum on the day after such six month period elapses, with the balance paid thereafter on the original schedule.

(o) CHOICE OF LAW. This Plan and any controversy arising out of or relating to this Plan shall be governed by, and construed in accordance with, the internal laws of the State of Delaware, without regard to conflict of law principles that would result in any application of any law other than the law of the State of Delaware.

10. COVENANTS OF THE COMPANY.

The Company will seek to obtain from each regulatory commission or agency, as may be deemed to be necessary, having jurisdiction over the Plan such authority as may be required to grant Awards and to issue and sell shares of Common Stock upon exercise or vesting of the Awards; provided, however, that this undertaking will not require the Company to register under the Securities Act the Plan, any Award or any Common Stock issued or issuable pursuant to any such Award. If, after reasonable efforts and at a reasonable cost, the Company is unable to obtain from any such regulatory commission or agency the authority that counsel for the Company deems necessary or advisable for the lawful issuance and sale of Common Stock under the Plan, the Company will be relieved from any liability for failure to issue and sell Common Stock upon exercise or vesting of such Awards unless and until such authority is obtained. A Participant is not eligible for the grant of an Award or the subsequent issuance of Common Stock pursuant to the Award if such grant or issuance would be in violation of any Applicable Law.

11. ADDITIONAL RULES FOR AWARDS SUBJECT TO SECTION 409A.

(a) Application. Unless the provisions of this Section of the Plan are expressly superseded by the provisions in the form of Award Agreement, the provisions of this Section shall apply and shall supersede anything to the contrary set forth in the Award Agreement for a Non-Exempt Award.

(b) Non-Exempt Awards Subject to Non-Exempt Severance Arrangements. To the extent a Non-Exempt Award is subject to Section 409A due to application of a Non-Exempt Severance Arrangement, the following provisions of this subsection (b) apply.

(i) If the Non-Exempt Award vests in the ordinary course during the Participant's Continuous Service in accordance with the vesting schedule set forth in the Award Agreement, and does not accelerate vesting under the terms of a Non-Exempt Severance Arrangement, in no event will the shares be issued in respect of such Non-Exempt Award any later than the later of: (i) December 31st of the calendar year that includes the applicable vesting date, or (ii) the 60th day that follows the applicable vesting date.

(ii) If vesting of the Non-Exempt Award accelerates under the terms of a Non-Exempt Severance Arrangement in connection with the Participant's Separation from Service, and such vesting acceleration provisions were in effect as of the date of grant of the Non-Exempt Award and, therefore, are part of the terms of such Non-Exempt Award as of the date of grant, then the shares will be earlier issued in settlement of such Non-Exempt Award upon the Participant's Separation from Service in accordance with the terms of the Non-Exempt Severance

Arrangement, but in no event later than the 60th day that follows the date of the Participant's Separation from Service. However, if at the time the shares would otherwise be issued the Participant is subject to the distribution limitations contained in Section 409A applicable to "specified employees," as defined in Section 409A(a)(2)(B)(i) of the Code, such shares shall not be issued before the date that is six months following the date of such Participant's Separation from Service, or, if earlier, the date of the Participant's death that occurs within such six month period.

(iii) If vesting of a Non-Exempt Award accelerates under the terms of a Non-Exempt Severance Arrangement in connection with a Participant's Separation from Service, and such vesting acceleration provisions were not in effect as of the date of grant of the Non-Exempt Award and, therefore, are not a part of the terms of such Non-Exempt Award on the date of grant, then such acceleration of vesting of the Non-Exempt Award shall not accelerate the issuance date of the shares, but the shares shall instead be issued on the same schedule as set forth in the Grant Notice as if they had vested in the ordinary course during the Participant's Continuous Service, notwithstanding the vesting acceleration of the Non-Exempt Award. Such issuance schedule is intended to satisfy the requirements of payment on a specified date or pursuant to a fixed schedule, as provided under Treasury Regulations Section 1.409A-3(a)(4).

(c) **Treatment of Non-Exempt Awards Upon a Corporate Transaction for Employees and Consultants.** The provisions of this subsection (c) shall apply and shall supersede anything to the contrary set forth in the Plan with respect to the permitted treatment of any Non-Exempt Award in connection with a Corporate Transaction if the Participant was either an Employee or Consultant upon the applicable date of grant of the Non-Exempt Award.

(i) **Vested Non-Exempt Awards.** The following provisions shall apply to any Vested Non-Exempt Award in connection with a Corporate Transaction:

(1) If the Corporate Transaction is also a Section 409A Change in Control then the Acquiring Entity may not assume, continue or substitute the Vested Non-Exempt Award. Upon the Section 409A Change in Control the settlement of the Vested Non-Exempt Award will automatically be accelerated and the shares will be immediately issued in respect of the Vested Non-Exempt Award. Alternatively, the Company may instead provide that the Participant will receive a cash settlement equal to the Fair Market Value of the shares that would otherwise be issued to the Participant upon the Section 409A Change in Control.

(2) If the Corporate Transaction is not also a Section 409A Change in Control, then the Acquiring Entity must either assume, continue or substitute each Vested Non-Exempt Award. The shares to be issued in respect of the Vested Non-Exempt Award shall be issued to the Participant by the Acquiring Entity on the same schedule that the shares would have been issued to the Participant if the Corporate Transaction had not occurred. In the Acquiring Entity's discretion, in lieu of an issuance of shares, the Acquiring Entity may instead substitute a cash payment on each applicable issuance date, equal to the Fair Market Value of the shares that would otherwise be issued to the Participant on such issuance dates, with the determination of the Fair Market Value of the shares made on the date of the Corporate Transaction.

(ii) Unvested Non-Exempt Awards. The following provisions shall apply to any Unvested Non-Exempt Award unless otherwise determined by the Board pursuant to subsection (e) of this Section.

(1) In the event of a Corporate Transaction, the Acquiring Entity shall assume, continue or substitute any Unvested Non-Exempt Award. Unless otherwise determined by the Board, any Unvested Non-Exempt Award will remain subject to the same vesting and forfeiture restrictions that were applicable to the Award prior to the Corporate Transaction. The shares to be issued in respect of any Unvested Non-Exempt Award shall be issued to the Participant by the Acquiring Entity on the same schedule that the shares would have been issued to the Participant if the Corporate Transaction had not occurred. In the Acquiring Entity's discretion, in lieu of an issuance of shares, the Acquiring Entity may instead substitute a cash payment on each applicable issuance date, equal to the Fair Market Value of the shares that would otherwise be issued to the Participant on such issuance dates, with the determination of Fair Market Value of the shares made on the date of the Corporate Transaction.

(2) If the Acquiring Entity will not assume, substitute or continue any Unvested Non-Exempt Award in connection with a Corporate Transaction, then such Award shall automatically terminate and be forfeited upon the Corporate Transaction with no consideration payable to any Participant in respect of such forfeited Unvested Non-Exempt Award. Notwithstanding the foregoing, to the extent permitted and in compliance with the requirements of Section 409A, the Board may in its discretion determine to elect to accelerate the vesting and settlement of the Unvested Non-Exempt Award upon the Corporate Transaction, or instead substitute a cash payment equal to the Fair Market Value of such shares that would otherwise be issued to the Participant, as further provided in subsection (e)(ii) below. In the absence of such discretionary election by the Board, any Unvested Non-Exempt Award shall be forfeited without payment of any consideration to the affected Participants if the Acquiring Entity will not assume, substitute or continue the Unvested Non-Exempt Awards in connection with the Corporate Transaction.

(3) The foregoing treatment shall apply with respect to all Unvested Non-Exempt Awards upon any Corporate Transaction, and regardless of whether or not such Corporate Transaction is also a Section 409A Change in Control.

(d) Treatment of Non-Exempt Awards Upon a Corporate Transaction for Non-Employee Directors. The following provisions of this subsection (d) shall apply and shall supersede anything to the contrary that may be set forth in the Plan with respect to the permitted treatment of a Non-Exempt Director Award in connection with a Corporate Transaction.

(i) If the Corporate Transaction is also a Section 409A Change in Control then the Acquiring Entity may not assume, continue or substitute the Non-Exempt Director Award. Upon the Section 409A Change in Control the vesting and settlement of any Non-Exempt Director Award will automatically be accelerated and the shares will be immediately issued to the Participant in respect of the Non-Exempt Director Award. Alternatively, the Company may provide that the Participant will instead receive a cash settlement equal to the Fair Market Value of the shares that would otherwise be issued to the Participant upon the Section 409A Change in Control pursuant to the preceding provision.

(ii) If the Corporate Transaction is not also a Section 409A Change in Control, then the Acquiring Entity must either assume, continue or substitute the Non-Exempt Director Award. Unless otherwise determined by the Board, the Non-Exempt Director Award will remain subject to the same vesting and forfeiture restrictions that were applicable to the Award prior to the Corporate Transaction. The shares to be issued in respect of the Non-Exempt Director Award shall be issued to the Participant by the Acquiring Entity on the same schedule that the shares would have been issued to the Participant if the Corporate Transaction had not occurred. In the Acquiring Entity's discretion, in lieu of an issuance of shares, the Acquiring Entity may instead substitute a cash payment on each applicable issuance date, equal to the Fair Market Value of the shares that would otherwise be issued to the Participant on such issuance dates, with the determination of Fair Market Value made on the date of the Corporate Transaction.

(e) If the RSU Award is a Non-Exempt Award, then the provisions in this Section 11(e) shall apply and supersede anything to the contrary that may be set forth in the Plan or the Award Agreement with respect to the permitted treatment of such Non-Exempt Award:

(i) Any exercise by the Board of discretion to accelerate the vesting of a Non-Exempt Award shall not result in any acceleration of the scheduled issuance dates for the shares in respect of the Non-Exempt Award unless earlier issuance of the shares upon the applicable vesting dates would be in compliance with the requirements of Section 409A.

(ii) The Company explicitly reserves the right to earlier settle any Non-Exempt Award to the extent permitted and in compliance with the requirements of Section 409A, including pursuant to any of the exemptions available in Treasury Regulations Section 1.409A-3(j)(4)(ix).

(iii) To the extent the terms of any Non-Exempt Award provide that it will be settled upon a Change in Control or Corporate Transaction, to the extent it is required for compliance with the requirements of Section 409A, the Change in Control or Corporate Transaction event triggering settlement must also constitute a Section 409A Change in Control. To the extent the terms of a Non-Exempt Award provides that it will be settled upon a termination of employment or termination of Continuous Service, to the extent it is required for compliance with the requirements of Section 409A, the termination event triggering settlement must also constitute a Separation From Service. However, if at the time the shares would otherwise be issued to a Participant in connection with a "separation from service" such Participant is subject to the distribution limitations contained in Section 409A applicable to "specified employees," as defined in Section 409A(a)(2)(B)(i) of the Code, such shares shall not be issued before the date that is six months following the date of the Participant's Separation From Service, or, if earlier, the date of the Participant's death that occurs within such six month period.

(iv) The provisions in this subsection (e) for delivery of the shares in respect of the settlement of an RSU Award that is a Non-Exempt Award are intended to comply with the requirements of Section 409A so that the delivery of the shares to the Participant in respect of such Non-Exempt Award will not trigger the additional tax imposed under Section 409A, and any ambiguities herein will be so interpreted.

12. SEVERABILITY.

If all or any part of the Plan or any Award Agreement is declared by any court or governmental authority to be unlawful or invalid, such unlawfulness or invalidity shall not invalidate any portion of the Plan or such Award Agreement not declared to be unlawful or invalid. Any Section of the Plan or any Award Agreement (or part of such a Section) so declared to be unlawful or invalid shall, if possible, be construed in a manner which will give effect to the terms of such Section or part of a Section to the fullest extent possible while remaining lawful and valid.

13. TERMINATION OF THE PLAN.

The Board may suspend or terminate the Plan at any time. No Incentive Stock Options may be granted after the tenth anniversary of the earlier of: (i) the Adoption Date, or (ii) the date the Plan is approved by the Company's stockholders. No Awards may be granted under the Plan while the Plan is suspended or after it is terminated.

14. DEFINITIONS.

As used in the Plan, the following definitions apply to the capitalized terms indicated below:

- (a) “**Acquiring Entity**” means the surviving or acquiring corporation (or its parent company) in connection with a Corporate Transaction.
- (b) “**Adoption Date**” means the date the Plan is first approved by the Board or Compensation Committee.
- (c) “**Affiliate**” means, at the time of determination, any “parent” or “subsidiary” of the Company as such terms are defined in Rule 405 promulgated under the Securities Act. The Board may determine the time or times at which “parent” or “subsidiary” status is determined within the foregoing definition.
- (d) “**Applicable Law**” means any applicable securities, federal, state, foreign, material local or municipal or other law, statute, constitution, principle of common law, resolution, ordinance, code, edict, decree, rule, listing rule, regulation, judicial decision, ruling or requirement issued, enacted, adopted, promulgated, implemented or otherwise put into effect by or under the authority of any Governmental Body (including under the authority of any applicable self-regulating organization such as the Nasdaq Stock Market, New York Stock Exchange, or the Financial Industry Regulatory Authority).
- (e) “**Award**” means any right to receive Common Stock, cash or other property granted under the Plan (including an Incentive Stock Option, a Nonstatutory Stock Option, a Restricted Stock Award, an RSU Award, a SAR, a Performance Award or any Other Award).
- (f) “**Award Agreement**” means a written or electronic agreement between the Company and a Participant evidencing the terms and conditions of an Award. The Award Agreement generally consists of the Grant Notice and the agreement containing the written summary of the general terms and conditions applicable to the Award and which is provided, including through electronic means, to a Participant along with the Grant Notice.
- (g) “**Board**” means the Board of Directors of the Company (or its designee). Any decision or determination made by the Board shall be a decision or determination that is made in the sole discretion of the Board (or its designee), and such decision or determination shall be final and binding on all Participants.
- (h) “**Capitalization Adjustment**” means any change that is made in, or other events that occur with respect to, the Common Stock subject to the Plan or subject to any Award after the date the Plan is adopted by the Board without the receipt of consideration by the Company through merger, consolidation, reorganization, recapitalization, reincorporation, stock dividend, dividend in property other than cash, large nonrecurring cash dividend, stock split, reverse stock split, liquidating dividend, combination of shares, exchange of shares, change in corporate structure or any similar equity restructuring transaction, as that term is used in Statement of Financial Accounting Standards Board Accounting Standards Codification Topic 718 (or any successor thereto). Notwithstanding the foregoing, the conversion of any convertible securities of the Company will not be treated as a Capitalization Adjustment.

(i) “Cause” has the meaning ascribed to such term in any written agreement between a Participant and the Company defining such term and, in the absence of such agreement, such term means, with respect to a Participant, the occurrence of any of the following events: (i) the Participant’s dishonest statements or acts with respect to the Company or any Affiliate of the Company, or any current or prospective customers, suppliers, vendors or other third parties with which such entity does business; (ii) the Participant’s commission of (A) a felony or (B) any misdemeanor involving moral turpitude, deceit, dishonesty or fraud; (iii) the Participant’s failure to perform the Participant’s assigned duties and responsibilities to the reasonable satisfaction of the Company which failure continues, in the reasonable judgment of the Company, after written notice given to the Participant by the Company; (iv) the Participant’s gross negligence, willful misconduct or insubordination with respect to the Company or any Affiliate of the Company; or (v) the Participant’s material violation of any provision of any agreement(s) between the Participant and the Company relating to noncompetition, nonsolicitation, nondisclosure and/or assignment of inventions. The determination that a termination of the Participant’s Continuous Service is either for Cause or without Cause will be made by the Board with respect to Participants who are executive officers of the Company and by the Company’s Chief Executive Officer with respect to Participants who are not executive officers of the Company. Any determination by the Company that the Continuous Service of a Participant was terminated with or without Cause for the purposes of outstanding Awards held by such Participant will have no effect upon any determination of the rights or obligations of the Company or such Participant for any other purpose.

(j) “Change in Control” or “Change of Control” means the occurrence, in a single transaction or in a series of related transactions, of any one or more of the following events:

(i) any Exchange Act Person becomes the Owner, directly or indirectly, of securities of the Company representing more than 50% of the combined voting power of the Company’s then outstanding securities other than by virtue of a merger, consolidation or similar transaction. Notwithstanding the foregoing, a Change in Control shall not be deemed to occur (A) on account of the acquisition of securities of the Company directly from the Company, (B) on account of the acquisition of securities of the Company by an investor, any affiliate thereof or any other Exchange Act Person that acquires the Company’s securities in a transaction or series of related transactions the primary purpose of which is to obtain financing for the Company through the issuance of equity securities, or (C) solely because the level of Ownership held by any Exchange Act Person (the “Subject Person”) exceeds the designated percentage threshold of the outstanding voting securities as a result of a repurchase or other acquisition of voting securities by the Company reducing the number of shares outstanding, provided that if a Change in Control would occur (but for the operation of this sentence) as a result of the acquisition of voting securities by the Company, and after such share acquisition, the Subject Person becomes the Owner of any additional voting securities that, assuming the repurchase or other acquisition had not occurred, increases the percentage of the then outstanding voting securities Owned by the Subject Person over the designated percentage threshold, then a Change in Control shall be deemed to occur;

(ii) there is consummated a merger, consolidation or similar transaction involving (directly or indirectly) the Company and, immediately after the consummation of such merger, consolidation or similar transaction, the stockholders of the Company immediately prior thereto do not Own, directly or indirectly, either (A) outstanding voting securities representing more than 50% of the combined outstanding voting power of the Acquiring Entity in such merger, consolidation or similar transaction or (B) more than 50% of the combined outstanding voting power of the parent of the Acquiring Entity in such merger, consolidation or similar transaction, in each case in substantially the same proportions as their Ownership of the outstanding voting securities of the Company immediately prior to such transaction;

(iii) there is consummated a sale, lease, exclusive license or other disposition of all or substantially all of the consolidated assets of the Company and its Subsidiaries, other than a sale, lease, license or other disposition of all or substantially all of the consolidated assets of the Company and its Subsidiaries to an Entity, more than 50% of the combined voting power of the voting securities of which are Owned by stockholders of the Company in substantially the same proportions as their Ownership of the outstanding voting securities of the Company immediately prior to such sale, lease, license or other disposition; or

(iv) individuals who, on the date the Plan is adopted by the Board, are members of the Board (the "**Incumbent Board**") cease for any reason to constitute at least a majority of the members of the Board; provided, however, that if the appointment or election (or nomination for election) of any new Board member was approved or recommended by a majority vote of the members of the Incumbent Board then still in office, such new member shall, for purposes of this Plan, be considered as a member of the Incumbent Board.

Notwithstanding the foregoing or any other provision of this Plan, (A) the term Change in Control shall not include a sale of assets, merger or other transaction effected exclusively for the purpose of changing the domicile of the Company, (B) the definition of Change in Control (or any analogous term) in an individual written agreement between the Company or any Affiliate and the Participant shall supersede the foregoing definition with respect to Awards subject to such agreement; provided, however, that if no definition of Change in Control or any analogous term is set forth in such an individual written agreement, the foregoing definition shall apply, and (C) with respect to any nonqualified deferred compensation that becomes payable on account of the Change in Control, the transaction or event described in clause (i), (ii), (iii), or (iv) also constitutes a Section 409A Change in Control if required in order for the payment not to violate Section 409A of the Code.

(k) "**Code**" means the Internal Revenue Code of 1986, as amended, including any applicable regulations and guidance thereunder.

(l) "**Combined Common Stock**" means the common stock of the Company of all classes.

(m) "**Committee**" means the Compensation Committee and any other committee of one or more Directors to whom authority has been delegated by the Board or Compensation Committee in accordance with the Plan.

(n) “*Common Stock*” means the Class A common stock of the Company.

(o) “*Company*” means Tempus AI, Inc., a Delaware corporation.

(p) “*Compensation Committee*” means the Compensation Committee of the Board.

(q) “*Consultant*” means any person, including an advisor, who is (i) engaged by the Company or an Affiliate to render consulting or advisory services and is compensated for such services, or (ii) serving as a member of the board of directors of an Affiliate and is compensated for such services. However, service solely as a Director, or payment of a fee for such service, will not cause a Director to be considered a “Consultant” for purposes of the Plan. Notwithstanding the foregoing, a person is treated as a Consultant under this Plan only if a Form S-8 Registration Statement under the Securities Act is available to register either the offer or the sale of the Company’s securities to such person.

(r) “*Continuous Service*” means that the Participant’s service with the Company or an Affiliate, whether as an Employee, Director or Consultant, is not interrupted or terminated. A change in the capacity in which the Participant renders service to the Company or an Affiliate as an Employee, Director or Consultant or a change in the Entity for which the Participant renders such service, provided that there is no interruption or termination of the Participant’s service with the Company or an Affiliate, will not terminate a Participant’s Continuous Service; provided, however, that if the Entity for which a Participant is rendering services ceases to qualify as an Affiliate, as determined by the Board, such Participant’s Continuous Service will be considered to have terminated on the date such Entity ceases to qualify as an Affiliate. For example, a change in status from an Employee of the Company to a Consultant of an Affiliate or to a Director will not constitute an interruption of Continuous Service. To the extent permitted by law, the Board or the chief executive officer of the Company, in that party’s sole discretion, may determine whether Continuous Service will be considered interrupted in the case of (i) any leave of absence approved by the Board or chief executive officer, including sick leave, military leave or any other personal leave, or (ii) transfers between the Company, an Affiliate, or their successors. Notwithstanding the foregoing, a leave of absence will be treated as Continuous Service for purposes of vesting in an Award only to such extent as may be provided in the Company’s leave of absence policy, in the written terms of any leave of absence agreement or policy applicable to the Participant, or as otherwise required by law. In addition, to the extent required for exemption from or compliance with Section 409A, the determination of whether there has been a termination of Continuous Service will be made, and such term will be construed, in a manner that is consistent with the definition of “separation from service” as defined under Treasury Regulation Section 1.409A-1(h) (without regard to any alternative definition thereunder).

(s) “*Corporate Transaction*” means the consummation, in a single transaction or in a series of related transactions, of any one or more of the following events:

(i) a sale or other disposition of all or substantially all, as determined by the Board, of the consolidated assets of the Company and its Subsidiaries;

(ii) a sale or other disposition of at least 50% of the outstanding securities of the Company;

(iii) a merger, consolidation or similar transaction following which the Company is not the surviving corporation; or

(iv) a merger, consolidation or similar transaction following which the Company is the surviving corporation but the shares of Common Stock outstanding immediately preceding the merger, consolidation or similar transaction are converted or exchanged by virtue of the merger, consolidation or similar transaction into other property, whether in the form of securities, cash or otherwise.

Notwithstanding the foregoing or any other provision of this Plan, (A) the term Corporate Transaction shall not include a sale of assets, merger or other transaction effected exclusively for the purpose of changing the domicile of the Company, (B) the definition of Corporate Transaction (or any analogous term) in an individual written agreement between the Company or any Affiliate and the Participant shall supersede the foregoing definition with respect to Awards subject to such agreement; provided, however, that if no definition of Corporate Transaction or any analogous term is set forth in such an individual written agreement, the foregoing definition shall apply, and (C) with respect to any nonqualified deferred compensation that becomes payable on account of the Corporate Transaction, the transaction or event described in clause (i), (ii), (iii), or (iv) also constitutes a Section 409A Change in Control if required in order for the payment not to violate Section 409A of the Code.

(t) “**Director**” means a member of the Board.

(u) “**determine**” or “**determined**” means as determined by the Board or the Committee (or its designee) in its sole discretion.

(v) “**Disability**” means, with respect to a Participant, such Participant is unable to engage in any substantial gainful activity by reason of any medically determinable physical or mental impairment which can be expected to result in death or which has lasted or can be expected to last for a continuous period of not less than 12 months, as provided in Section 22(e)(3) of the Code, and will be determined by the Board on the basis of such medical evidence as the Board deems warranted under the circumstances.

(w) “**Effective Date**” means immediately prior to the IPO Date, provided that this Plan is approved by the Company’s stockholders prior to the IPO Date.

(x) “**Employee**” means any person employed by the Company or an Affiliate. However, service solely as a Director, or payment of a fee for such services, will not cause a Director to be considered an “Employee” for purposes of the Plan.

(y) “**Employer**” means the Company or the Affiliate of the Company that employs the Participant.

(z) “**Entity**” means a corporation, partnership, limited liability company or other entity.

(aa) “**Exchange Act**” means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.

(bb) “Exchange Act Person” means any natural person, Entity or “group” (within the meaning of Section 13(d) or 14(d) of the Exchange Act), except that “Exchange Act Person” will not include (i) the Company or any Subsidiary of the Company, (ii) any employee benefit plan of the Company or any Subsidiary of the Company or any trustee or other fiduciary holding securities under an employee benefit plan of the Company or any Subsidiary of the Company, (iii) an underwriter temporarily holding securities pursuant to a registered public offering of such securities, (iv) an Entity Owned, directly or indirectly, by the stockholders of the Company in substantially the same proportions as their Ownership of stock of the Company; or (v) any natural person, Entity or “group” (within the meaning of Section 13(d) or 14(d) of the Exchange Act) that, as of the Effective Date, is the Owner, directly or indirectly, of securities of the Company representing more than 50% of the combined voting power of the Company’s then outstanding securities.

(cc) “Fair Market Value” means, as of any date, unless otherwise determined by the Board, the value of the Common Stock (as determined on a per share or aggregate basis, as applicable) determined as follows:

(i) If the Common Stock is listed on any established stock exchange or traded on any established market, the Fair Market Value will be the closing sales price for such stock as quoted on such exchange or market (or the exchange or market with the greatest volume of trading in the Common Stock) on the date of determination, as reported in a source the Board deems reliable.

(ii) If there is no closing sales price for the Common Stock on the date of determination, then the Fair Market Value will be the closing selling price on the last preceding date for which such quotation exists.

(iii) In the absence of such markets for the Common Stock, or if otherwise determined by the Board, the Fair Market Value will be determined by the Board in good faith and in a manner that complies with Sections 409A and 422 of the Code.

(dd) “Governmental Body” means any: (i) nation, state, commonwealth, province, territory, county, municipality, district or other jurisdiction of any nature; (ii) federal, state, local, municipal, foreign or other government; (iii) governmental or regulatory body, or quasi-governmental body of any nature (including any governmental division, department, administrative agency or bureau, commission, authority, instrumentality, official, ministry, fund, foundation, center, organization, unit, body or Entity and any court or other tribunal, and for the avoidance of doubt, any Tax authority) or other body exercising similar powers or authority; or (iv) self-regulatory organization (including the Nasdaq Stock Market, New York Stock Exchange, and the Financial Industry Regulatory Authority).

(ee) “Grant Notice” means the notice provided to a Participant that he or she has been granted an Award under the Plan and which includes the name of the Participant, the type of Award, the date of grant of the Award, number of shares of Common Stock subject to the Award or potential cash payment right, (if any), the vesting schedule for the Award (if any) and other key terms applicable to the Award.

(ff) “**Incentive Stock Option**” means an option granted pursuant to Section 4 of the Plan that is intended to be, and qualifies as, an “incentive stock option” within the meaning of Section 422 of the Code.

(gg) “**IPO Date**” means the date of the underwriting agreement between the Company and the underwriter(s) managing the initial public offering of the Common Stock, pursuant to which the Common Stock is priced for the initial public offering.

(hh) “**Materially Impair**” means any amendment to the terms of the Award that materially adversely affects the Participant’s rights under the Award. A Participant’s rights under an Award will not be deemed to have been Materially Impaired by any such amendment if the Board, in its sole discretion, determines that the amendment, taken as a whole, does not materially impair the Participant’s rights. For example, the following types of amendments to the terms of an Award do not Materially Impair the Participant’s rights under the Award: (i) imposition of reasonable restrictions on the minimum number of shares subject to an Option or SAR that may be exercised; (ii) to maintain the qualified status of the Award as an Incentive Stock Option under Section 422 of the Code; (iii) to change the terms of an Incentive Stock Option in a manner that disqualifies, impairs or otherwise affects the qualified status of the Award as an Incentive Stock Option under Section 422 of the Code; (iv) to clarify the manner of exemption from, or to bring the Award into compliance with or qualify it for an exemption from, Section 409A; or (v) to comply with other Applicable Laws.

(ii) “**Non-Employee Director**” means a Director who either (i) is not a current employee or officer of the Company or an Affiliate, does not receive compensation, either directly or indirectly, from the Company or an Affiliate for services rendered as a consultant or in any capacity other than as a Director (except for an amount as to which disclosure would not be required under Item 404(a) of Regulation S-K promulgated pursuant to the Securities Act (“**Regulation S-K**”)), does not possess an interest in any other transaction for which disclosure would be required under Item 404(a) of Regulation S-K, and is not engaged in a business relationship for which disclosure would be required pursuant to Item 404(b) of Regulation S-K; or (ii) is otherwise considered a “non-employee director” for purposes of Rule 16b-3.

(jj) “**Non-Exempt Award**” means any Award that is subject to, and not exempt from, Section 409A, including as the result of (i) a deferral of the issuance of the shares subject to the Award which is elected by the Participant or imposed by the Company, or (ii) the terms of any Non-Exempt Severance Agreement.

(kk) “**Non-Exempt Director Award**” means a Non-Exempt Award granted to a Participant who was a Director but not an Employee on the applicable grant date.

(ll) “**Non-Exempt Severance Arrangement**” means a severance arrangement or other agreement between the Participant and the Company that provides for acceleration of vesting of an Award and issuance of the shares in respect of such Award upon the Participant’s termination of employment or separation from service (as such term is defined in Section 409A(a)(2)(A)(i) of the Code (and without regard to any alternative definition thereunder) (“**Separation from Service**”) and such severance benefit does not satisfy the requirements for an exemption from application of Section 409A provided under Treasury Regulations Section 1.409A-1(b)(4), 1.409A-1(b)(9) or otherwise.

(mm) “*Nonstatutory Stock Option*” means any option granted pursuant to Section 4 of the Plan that does not qualify as an Incentive Stock Option.

(nn) “*Officer*” means a person who is an officer of the Company within the meaning of Section 16 of the Exchange Act.

(oo) “*Option*” means an Incentive Stock Option or a Nonstatutory Stock Option to purchase shares of Common Stock granted pursuant to the Plan.

(pp) “*Option Agreement*” means a written or electronic agreement between the Company and the Optionholder evidencing the terms and conditions of the Option grant. The Option Agreement includes the Grant Notice for the Option and the agreement containing the written summary of the general terms and conditions applicable to the Option and which is provided, including through electronic means, to a Participant along with the Grant Notice. Each Option Agreement will be subject to the terms and conditions of the Plan.

(qq) “*Optionholder*” means a person to whom an Option is granted pursuant to the Plan or, if applicable, such other person who holds an outstanding Option.

(rr) “*Other Award*” means an award valued in whole or in part by reference to, or otherwise based on, Common Stock, including the appreciation in value thereof (e.g., options or stock rights with an exercise price or strike price less than 100% of the Fair Market Value at the time of grant) that is not an Incentive Stock Option, Nonstatutory Stock Option, SAR, Restricted Stock Award, RSU Award or Performance Award.

(ss) “*Other Award Agreement*” means a written or electronic agreement between the Company and a holder of an Other Award evidencing the terms and conditions of an Other Award grant. Each Other Award Agreement will be subject to the terms and conditions of the Plan.

(tt) “*Own,*” “*Owned,*” “*Owner,*” “*Ownership*” means that a person or Entity will be deemed to “Own,” to have “Owned,” to be the “Owner” of, or to have acquired “Ownership” of securities if such person or Entity, directly or indirectly, through any contract, arrangement, understanding, relationship or otherwise, has or shares voting power, which includes the power to vote or to direct the voting, with respect to such securities.

(uu) “*Participant*” means an Employee, Director or Consultant to whom an Award is granted pursuant to the Plan or, if applicable, such other person who holds an outstanding Award.

(vv) “*Performance Award*” means an Award that may vest or may be exercised or a cash award that may vest or become earned and paid contingent upon the attainment during a Performance Period of certain Performance Goals and which is granted under the terms and conditions of Section 5(b) pursuant to such terms as are approved by the Board. In addition, to the extent permitted by Applicable Law and set forth in the applicable Award Agreement, the Board may determine that cash or other property may be used in payment of Performance Awards. Performance Awards that are settled in cash or other property are not required to be valued in whole or in part by reference to, or otherwise based on, the Common Stock.

(ww) “*Performance Criteria*” means one or more criteria that the Board will select for purposes of establishing the Performance Goals for a Performance Period. The Performance Criteria that will be used to establish such Performance Goals may be based on any one of, or combination of, the following as determined by the Board: earnings (including earnings per share and net earnings); earnings before interest, taxes and depreciation; earnings before interest, taxes, depreciation and amortization; total stockholder return; return on equity or average stockholder’s equity; return on assets, investment, or capital employed; stock price; margin (including gross margin); income (before or after taxes); operating income; operating income after taxes; pre-tax profit; operating cash flow; sales or revenue targets; increases in revenue or product revenue; expenses and cost reduction goals; improvement in or attainment of working capital levels; economic value added (or an equivalent metric); market share; cash flow; cash flow per share; share price performance; debt reduction; customer satisfaction; stockholders’ equity; capital expenditures; debt levels; operating profit or net operating profit; workforce diversity; growth of net income or operating income; billings; financing; regulatory milestones; stockholder liquidity; corporate governance and compliance; intellectual property; personnel matters; progress of internal research; progress of partnered programs; partner satisfaction; budget management; partner or collaborator achievements; internal controls, including those related to the Sarbanes-Oxley Act of 2002; investor relations, analysts and communication; implementation or completion of projects or processes; employee retention; number of users, including unique users; strategic partnerships or transactions (including in-licensing and out-licensing of intellectual property); establishing relationships with respect to the marketing, distribution and sale of the Company’s products; supply chain achievements; co-development, co-marketing, profit sharing, joint venture or other similar arrangements; individual performance goals; corporate development and planning goals; and other measures of performance selected by the Board or Committee whether or not listed herein.

(xx) “*Performance Goals*” means, for a Performance Period, one or more goals established by the Board for the Performance Period based upon the Performance Criteria. Performance Goals may be based on a Company-wide basis, with respect to one or more business units, divisions, Affiliates, or business segments, and in either absolute terms or relative to the performance of one or more comparable companies or the performance of one or more relevant indices. Unless specified otherwise by the Board (i) in the Award Agreement at the time the Award is granted or (ii) in such other document setting forth the Performance Goals at the time the Performance Goals are established, the Board will appropriately make adjustments in the method of calculating the attainment of Performance Goals for a Performance Period as follows: (1) to exclude restructuring and/or other nonrecurring charges; (2) to exclude exchange rate effects; (3) to exclude the effects of changes to generally accepted accounting principles; (4) to exclude the effects of any statutory adjustments to corporate tax rates; (5) to exclude the effects of items that are “unusual” in nature or occur “infrequently” as determined under generally accepted accounting principles; (6) to exclude the dilutive effects of acquisitions or joint ventures; (7) to assume that any business divested by the Company achieved performance objectives at targeted levels during the balance of a Performance Period following such divestiture; (8) to exclude the effect of any change in the outstanding shares of common stock of the Company by reason of any stock dividend or split, stock repurchase, reorganization, recapitalization, merger, consolidation, spin-off,

combination or exchange of shares or other similar corporate change, or any distributions to common stockholders other than regular cash dividends; (9) to exclude the effects of stock based compensation and the award of bonuses under the Company's bonus plans; (10) to exclude costs incurred in connection with potential acquisitions or divestitures that are required to be expensed under generally accepted accounting principles; and (11) to exclude the goodwill and intangible asset impairment charges that are required to be recorded under generally accepted accounting principles. In addition, the Board may establish or provide for other adjustment items in the Award Agreement at the time the Award is granted or in such other document setting forth the Performance Goals at the time the Performance Goals are established. In addition, the Board retains the discretion to reduce or eliminate the compensation or economic benefit due upon attainment of Performance Goals and to define the manner of calculating the Performance Criteria it selects to use for such Performance Period. Partial achievement of the specified criteria may result in the payment or vesting corresponding to the degree of achievement as specified in the Award Agreement or the written terms of a Performance Cash Award.

(yy) "**Performance Period**" means the period of time selected by the Board over which the attainment of one or more Performance Goals will be measured for the purpose of determining a Participant's right to vesting or exercise of an Award. Performance Periods may be of varying and overlapping duration, at the sole discretion of the Board.

(zz) "**Plan**" means this Tempus AI, Inc. 2024 Equity Incentive Plan, as amended from time to time.

(aaa) "**Plan Administrator**" means the person, persons, and/or third-party administrator designated by the Company to administer the day to day operations of the Plan and the Company's other equity incentive programs.

(bbb) "**Post-Termination Exercise Period**" means the period following termination of a Participant's Continuous Service within which an Option or SAR is exercisable, as specified in Section 4(h).

(ccc) "**Prior Plan**" means the Third Amended and Restated Tempus Labs, Inc. 2015 Stock Plan.

(ddd) "**Restricted Stock Award**" or "**RSA**" means an Award of shares of Common Stock which is granted pursuant to the terms and conditions of Section 5(a).

(eee) "**Restricted Stock Award Agreement**" means a written or electronic agreement between the Company and a holder of a Restricted Stock Award evidencing the terms and conditions of a Restricted Stock Award grant. The Restricted Stock Award Agreement includes the Grant Notice for the Restricted Stock Award and the agreement containing the written summary of the general terms and conditions applicable to the Restricted Stock Award and which is provided, including by electronic means, to a Participant along with the Grant Notice. Each Restricted Stock Award Agreement will be subject to the terms and conditions of the Plan.

(fff) "**Returning Shares**" means shares subject to outstanding stock awards granted under the Prior Plan and that following the Effective Date: (A) are not issued because such stock award or any portion thereof expires or otherwise terminates without all of the shares covered by

such stock award having been issued; (B) are not issued because such stock award or any portion thereof is settled in cash; (C) are forfeited back to or repurchased by the Company because of the failure to meet a contingency or condition required for the vesting of such shares; (D) are withheld or reacquired to satisfy the exercise, strike or purchase price; or (E) are withheld or reacquired to satisfy a tax withholding obligation.

(ggg) “*RSU Award*” or “*RSU*” means an Award of restricted stock units representing the right to receive an issuance of shares of Common Stock which is granted pursuant to the terms and conditions of Section 5(a).

(hhh) “*RSU Award Agreement*” means a written or electronic agreement between the Company and a holder of an RSU Award evidencing the terms and conditions of an RSU Award grant. The RSU Award Agreement includes the Grant Notice for the RSU Award and the agreement containing the written summary of the general terms and conditions applicable to the RSU Award and which is provided, including by electronic means, to a Participant along with the Grant Notice. Each RSU Award Agreement will be subject to the terms and conditions of the Plan.

(iii) “*Rule 16b-3*” means Rule 16b-3 promulgated under the Exchange Act or any successor to Rule 16b-3, as in effect from time to time.

(jjj) “*Rule 405*” means Rule 405 promulgated under the Securities Act.

(kkk) “*Section 409A*” means Section 409A of the Code and the regulations and other guidance thereunder.

(lll) “*Section 409A Change in Control*” means a change in the ownership or effective control of the Company, or in the ownership of a substantial portion of the Company’s assets, as provided in Section 409A(a)(2)(A)(v) of the Code and Treasury Regulations Section 1.409A-3(i)(5) (without regard to any alternative definition thereunder).

(mmm) “*Securities Act*” means the Securities Act of 1933, as amended.

(nnn) “*Share Reserve*” means the number of shares available for issuance under the Plan as set forth in Section 2(a).

(ooo) “*Stock Appreciation Right*” or “*SAR*” means a right to receive the appreciation on Common Stock that is granted pursuant to the terms and conditions of Section 4.

(ppp) “*SAR Agreement*” means a written or electronic agreement between the Company and a holder of a SAR evidencing the terms and conditions of a SAR grant. The SAR Agreement includes the Grant Notice for the SAR and the agreement containing the written summary of the general terms and conditions applicable to the SAR and which is provided, including by electronic means, to a Participant along with the Grant Notice. Each SAR Agreement will be subject to the terms and conditions of the Plan.

(qqq) “*Subsidiary*” means, with respect to the Company, (i) any corporation of which more than 50% of the outstanding capital stock having ordinary voting power to elect a majority

of the board of directors of such corporation (irrespective of whether, at the time, stock of any other class or classes of such corporation will have or might have voting power by reason of the happening of any contingency) is at the time, directly or indirectly, Owned by the Company, and (ii) any partnership, limited liability company or other entity in which the Company has a direct or indirect interest (whether in the form of voting or participation in profits or capital contribution) of more than 50%.

(rrr) “*Ten Percent Stockholder*” means a person who Owns (or is deemed to Own pursuant to Section 424(d) of the Code) stock possessing more than 10% of the total combined voting power of all classes of stock of the Company or any Affiliate.

(sss) “*Trading Policy*” means the Company’s policy permitting certain individuals to sell Company shares only during certain “window” periods and/or otherwise restricts the ability of certain individuals to transfer or encumber Company shares, as in effect from time to time.

(ttt) “*Unvested Non-Exempt Award*” means the portion of any Non-Exempt Award that had not vested in accordance with its terms upon or prior to the date of any Corporate Transaction.

(uuu) “*Vested Non-Exempt Award*” means the portion of any Non-Exempt Award that had vested in accordance with its terms upon or prior to the date of a Corporate Transaction.

CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [*], HAS BEEN OMITTED BECAUSE TEMPUS AI, INC. HAS DETERMINED THE INFORMATION (I) IS NOT MATERIAL AND (II) WOULD LIKELY CAUSE COMPETITIVE HARM TO TEMPUS AI, INC. IF PUBLICLY DISCLOSED.**

Amended and Restated Master Agreement

This Amended and Restated Master Agreement (the “Agreement”) is entered into by and between Tempus AI, Inc. (on behalf of itself and its affiliates, “Tempus”), and Pathos AI, Inc. (“Client” or “Pathos”). Tempus and Pathos are each individually a “Party” and are collectively the “Parties.”

Background

Tempus is a technology company dedicated to advancing precision medicine through its proprietary products and services. Pathos would like to use Tempus’ technology and data as further described in this Agreement. Tempus and Pathos entered into that certain Master Agreement dated as of August 19, 2021 (such date, the “Effective Date”), under which Pathos obtained rights to use Tempus’ technology and data as further described therein (as amended, the “Original Agreement”). Tempus and Pathos subsequently entered into an amendment to that Original Agreement (referred to herein as the “First Amendment”).

The Parties would now like to amend and restate the Original Agreement in its entirety pursuant to this Agreement, to extend its Initial Term and make other modifications, which will be effective upon the later date of signature below (the “Amendment Effective Date”).

Agreement

In consideration of the mutual promises described below, the Parties agree as follows:

- 1. General.** During the Term, Tempus may provide “Services” and “Deliverables,” each to the extent expressly identified in an Exhibit or fully executed Order Form under this Agreement. Tempus may also grant Client a license to certain “Licensed Data” or “Software,” also to the extent included in an Exhibit or a fully executed “Order Form.” The activities contemplated as of the date of this Agreement are described in the attached Exhibit(s), which may be supplemented by the Parties from time to time. Tempus will perform all Services in a professional and workmanlike manner using personnel appropriately skilled in the art of the requested Services.
- 2. Fees.** Client agrees to pay Tempus all fees listed in the applicable Exhibit or Order Form. Invoices under this Agreement are due and payable by Client within thirty (30) days of the invoice date. Interest will apply to any undisputed, overdue invoices at a rate of the lesser of (a) 1.0% per month, and (b) the highest rate permitted by applicable law. Client is responsible for payment of any taxes arising out of or related to this Agreement.
- 3. Insurance.** During the Term, each Party will maintain the following insurance at its own expense: (i) commercial general liability insurance with limits not less than \$1 million per occurrence and \$3 million annual aggregate; (ii) professional liability/errors and omissions insurance with limits not less than \$1 million per occurrence and \$2 million annual aggregate; and (iii) workers’ compensation insurance at statutory limits (minimum \$500,000). The insurance required above may be maintained through umbrella and/or self-insurance.

4. **Research Use Only.** Client agrees that unless otherwise specified in the applicable Exhibit or Order Form, information provided by Tempus under this Agreement is for research use only. Client also agrees that: (a) Tempus does not recommend, endorse, or make any representation about the efficacy or appropriateness of any therapy, procedure, or treatment described in any report or information made available by Tempus; (b) if reports and information provided by Tempus are reviewed by a treating clinician, that clinician (and not Tempus) is responsible for decisions regarding patient care; and (c) Client is solely responsible for its use of reports and information made available by Tempus. All information and reports provided by Tempus are subject to any notes, explanations, limitations, and disclaimers included therein.
5. **Client's Policies.** Because Client is in the best position to interpret and apply its requirements and those of its affiliates, Client agrees that Client is solely responsible for complying with all such policies, rules, guidelines, and similar requirements, including, where applicable, requirements that govern research subject consent; the collection, processing, transfer, analysis, use, and storage of research subject specimens and data; and laws and regulations that apply to Client or its affiliates (collectively, "Client Requirements"). Client will only provide specimens and data to Tempus to the extent such transfer, and Tempus' use of the specimens and data in accordance with this Agreement, complies with Client Requirements. Tempus disclaims any responsibility and liability for any breach of Client Requirements.
6. **Privacy, Confidentiality, and Intellectual Property.**
- a. *Privacy.* If Client provides Tempus with protected health information (as defined in the Health Insurance Portability and Accountability Act of 1996 and its implementing regulations ("HIPAA")) ("PHI") under this Agreement, the Parties will enter into a business associate agreement, which will be deemed incorporated into this Agreement.
- b. *Non-disclosure.* Any non-public information provided by a Party (the "Disclosing Party") to the other Party (the "Receiving Party") in connection with this Agreement, including specific terms and pricing, is the Disclosing Party's "Confidential Information." During the Term and the subsequent three (3) year period, the Receiving Party will maintain all Confidential Information in confidence and use it only as reasonably necessary to perform its obligations and exercise its rights under this Agreement. Confidential Information excludes information that (i) is publicly available through no fault of the Receiving Party or anyone to whom the Receiving Party made such information available; (ii) was lawfully obtained by the Receiving Party on a non-confidential basis from a third party; (iii) the Receiving Party can conclusively demonstrate was legally in its possession before the Disclosing Party provided it to the Receiving Party; or (iv) was independently developed by the Receiving Party or on its behalf without the use of any information provided to the Receiving Party by the Disclosing Party. In addition and notwithstanding anything to the contrary, the De-Identified Data (defined below) and any aggregated or otherwise de-identified data stored in Tempus' technology platform is not Client's Confidential Information under this Agreement.
- c. *Intellectual Property.* Except to the extent expressly stated otherwise, this Agreement does not grant either Party a license to or any right in the other Party's intellectual property. Without limiting the generality of the foregoing, Tempus reserves all rights in Tempus Materials, during the Term and otherwise. "Tempus Materials" means any data, technology, software, formulas, techniques or know-how and other tangible and intangible items that are owned or created by Tempus, and "Pathos Materials" means any data, technology, software, formulas, techniques or know-how and other tangible and intangible items that are owned or created by Pathos. Tempus will be and remain, at all times, the sole owner of the Tempus Materials, including any replacements, improvements, updates, enhancements, derivative works, and other modifications to the same. Pathos will be and remain, at all times, the sole owner of the Pathos Materials, including any replacements, improvements, updates, enhancements, derivative works, and other modifications to the same.

Pathos will also own its copy of items provided under this Agreement that are expressly described as Deliverables in the applicable Exhibit or Order Form. For clarification, Licensed Data shall be considered Tempus Materials and never a Deliverable. Tempus Materials shall not include End User Generated Results, as defined in Exhibit 1, or other any other Pathos Materials.

- d. *Data.* In service of Tempus' mission to advance precision medicine, Tempus makes use of de-identified data to facilitate innovation in therapies and patient care and to continuously improve its technology, computational and predictive models, and other products and services. Accordingly, except as stated otherwise in an Exhibit or Order Form, Tempus may retain a de-identified copy of all Deliverables generated by and clinical data made available to Tempus under this Agreement (collectively, the "De-Identified Data"). To the extent necessary, Tempus will de-identify such data in accordance with HIPAA, and for purposes of this Agreement, genomic sequencing data without other identifiers is not considered identifiable. Tempus owns the De-Identified Data and may use and share it for any purposes permitted under applicable law.

7. Indemnification.

- a. *Mutual.* Each Party will defend, indemnify, and hold harmless the other Party, its board, officers, employees, suppliers, agents, successors, and assigns from and against any costs, losses, damages, liabilities, expenses, demands and judgments, including court costs and attorney fees (collectively, "Losses") that arise out of a third party claim based on the negligent acts or willful misconduct of the indemnifying Party's employees or agents that directly cause bodily injury or tangible property damage, if the injury or damage directly arises out of performance of this Agreement.
 - b. *By Tempus.* Tempus will defend, indemnify, and hold Client, its board, officers, employees, suppliers, agents, successors, and assigns harmless from and against any Losses that arise out of a third party claim alleging that the Tempus Materials used in providing the Services or any Software or Deliverable directly infringes a copyright, a U.S. patent issued as of the Effective Date, or any third party trademark. Tempus' obligations under this Subsection are Client's sole and exclusive remedy and Tempus' sole obligation for any alleged infringement of intellectual property. Tempus does not have any obligations under this Subsection for claims of infringement or misappropriation based upon or arising out of: (i) any Deliverable, Software, or Tempus Materials modified without Tempus' approval; (ii) the use of any Deliverable, Software, or Tempus Materials in combination with materials not provided by Tempus; or (iii) the use of any Deliverable, Software, or Tempus Materials other than as permitted under this Agreement.
 - c. *By Client.* Client will defend, indemnify, and hold Tempus, its directors, officers, employees, suppliers, agents, successors, and assigns harmless from and against any Losses that arise out of a third party claim regarding its use of any Services, Software, Licensed Data, or Deliverables.
 - d. *Process.* The indemnification obligations in this Section are subject to the "Indemnified Party": (i) giving prompt notice to the "Indemnifying Party" of the claim for which indemnification is sought; (ii) reasonably cooperating in its defense; and (iii) granting the Indemnifying Party control over its defense and settlement. Any delay in notice will only excuse the Indemnifying Party's obligations under this Section to the extent its defense of the claim is adversely affected. The Indemnifying Party will not agree to any finding of fault, action, or forbearance by the Indemnified Party without its advance written consent.
8. **Limitations.** UNDER NO CIRCUMSTANCES WILL EITHER PARTY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, EXEMPLARY, CONSEQUENTIAL, PUNITIVE, OR OTHER INDIRECT DAMAGES SUFFERED BY THE OTHER OR ANY OTHER PERSON ARISING

FROM OR RELATED TO THIS AGREEMENT OR ANY SERVICES OR ACTIVITIES HEREUNDER, REGARDLESS OF WHETHER THE PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR THEY WERE OTHERWISE FORESEEABLE. IN ADDITION, UNDER NO CIRCUMSTANCES WILL TEMPUS BE LIABLE FOR ANY INDIVIDUAL CLAIM, OR IN THE AGGREGATE FOR ALL CLAIMS, FOR ANY AMOUNT IN EXCESS OF THE GREATER OF THE FEES PAID BY CLIENT TO TEMPUS UNDER THIS AGREEMENT IN THE TWELVE (12) MONTHS PRECEDING THE CLAIM OR ONE HUNDRED THOUSAND DOLLARS (\$100,000). THE LIMITATIONS SET FORTH IN THIS SECTION DO NOT APPLY TO EITHER PARTY'S PAYMENT OR INDEMNIFICATION OBLIGATIONS. TEMPUS DISCLAIMS ALL WARRANTIES AND REPRESENTATIONS NOT EXPRESSLY SET FORTH IN THIS AGREEMENT.

9. Term and Termination.

- a. *Term.* This Agreement is effective as of the Effective Date and will continue for five (5) years following the Amendment Effective Date (the "Initial Term"). Thereafter, the Agreement will renew for an additional five (5) year term (the "Renewal Term") until terminated in accordance with this Section. The Initial Term and the Renewal Term, if any, are the "Term." Sections 4 through 10 will survive termination of this Agreement.
- b. *Termination.* Either Party may terminate this Agreement if the other has committed a material breach that is not cured to the reasonable satisfaction of the non-breaching Party within thirty (30) days of receipt of written notice from the non-breaching Party. In addition, after the initial 5 year Term, either Party may terminate this Agreement at any time by providing at least one-hundred eighty (180) days written notice to the other Party, however, such termination will not apply to any ongoing Order Form(s) unless otherwise mutually agreed by the Parties, and applicable terms of the Agreement will survive until the surviving Order Form(s) are completed or terminated.
- c. *Regulatory Changes.* If either Party (the "Noticing Party") determines in good faith that a change in applicable law or regulation, or a change in how a current law or regulation is interpreted, (i) makes any part of this Agreement illegal or unenforceable, or (ii) materially changes the economic benefit or cost of performing this Agreement, then the Noticing Party will provide the other Party with a proposed amendment to this Agreement to address such change. The Parties will negotiate such amendment in good faith. If the Parties are unable to reach agreement within thirty (30) days of the initial notice, this Agreement will terminate. No liability will accrue to either Party for failure to perform under this Agreement during the period between notice under this Subsection and any amendment to or termination of this Agreement.
- d. *Termination Upon Bankruptcy, Insolvency and the Like.* Subject to applicable bankruptcy and insolvency laws, if either party (i) ceases the active conduct of business; (ii) voluntarily becomes subject to a bankruptcy or insolvency proceeding under federal or state statute; (iii) has filed against it an involuntary petition for bankruptcy that is not dismissed within sixty (60) days of filing; (iv) becomes insolvent or subject to direct control by a trustee, receiver, or similar authority; or (v) winds up or liquidates its business, voluntarily or otherwise, then the other party may, at its sole option, terminate this Agreement immediately upon written notice to the first party.

10. Miscellaneous.

- a. *Governing Law and Disputes.* This Agreement will be governed exclusively by the laws of Illinois, without regard to its conflict of law principles. The parties consent to exclusive jurisdiction and venue of the federal and state courts in Cook County, Illinois. The Parties will use good faith efforts to work together to resolve any disputes related to this Agreement, using mutually escalating discussions as needed.

- b. *Force Majeure.* Neither Party will be liable for any failure or delay of performance to the extent resulting from a cause outside of its reasonable control, such as natural disaster, strike, fire, pandemic, governmental action, terrorism, or war.
- c. *Anti-Corruption.* Neither Party has received or been offered any illegal or improper payment, bribe, kickback, gift, or other item of value from an employee or agent of the other Party in connection with this Agreement. The Parties intend for their relationship and interactions under this Agreement to comply with the following: (i) the federal anti-kickback statute (42 U.S.C. § 1320a-7b(b)) and the associated safe harbor regulations; and (ii) the limitation on certain physician referrals (Stark Law) (42 U.S.C. § 1395nn). Accordingly, no part of any remuneration provided under this Agreement or any other agreement between the Parties is a prohibited payment in exchange for recommending or arranging for the referral of business or the ordering of items or services, or otherwise intended to induce illegal referrals of business.
- d. *Exclusion and Debarment.* As of the date of this Agreement and to the best of Tempus' knowledge, neither Tempus nor any Tempus personnel providing Services under this Agreement: (i) have been the subject of a debarment proceeding under 21 U.S.C. § 335a; (ii) are excluded from participation in Medicare, Medicaid, or any other federal or state health care program; or (iii) are the subject of any government investigation that could result in such debarment or exclusion. If Tempus becomes aware of such an event during the Term with respect to Tempus personnel, it will promptly terminate its relationship with the affected personnel or remove them from providing Services to Client. If Tempus becomes aware of such an event with respect to itself during the Term, it will promptly inform Client, and Client may immediately terminate this Agreement.
- e. *Notice.* Notice required under this Agreement will be in writing, delivered to the address for each Party listed above, and clearly identifiable as a legal notice. Client will designate its billing contact and invoice address, and any subsequent changes to such information, by email to billing@Tempus.com. All notices to Tempus should be sent to legal@tempus.com.
- f. *Binding Effect; Assignment.* This Agreement is binding upon, and will inure to the benefit of, the successors and permitted assigns of the Parties. Either Party may assign its rights and responsibilities under this Agreement to any of its affiliates or in connection with a merger, acquisition, corporate reorganization or sale of all or substantially all of its assets, provided that the assignee agrees in writing to be bound by the terms of this Agreement, and also provided that Client may not assign this Agreement if the assignee is a Top 20 pharmaceutical company based on annual revenue for the trailing 12 months prior to assignment without the prior written consent of Tempus, not to be withheld absent a reasonable determination by Tempus that the assignment would materially and adversely impact Tempus (e.g., by creating a conflict between this Agreement and Tempus' contractual obligations to its other clients). If Tempus determines it is not able to consent to the assignment, Tempus will promptly propose an amendment to this Agreement making the minimum changes necessary to address such concern, and the Parties will work expediently and in good faith to reach agreement on terms that will allow the assignment to proceed. It is the intent of the Parties that the terms of this Agreement will remain at all times consistent with Tempus' obligations to its other clients (e.g., with respect to most favored nations pricing commitments). A company that operates as an independent entity owned or controlled by a Top 20 pharmaceutical company (i.e., where the entity internally retains day-to-day discretion over its own management, policies, and purchasing decisions, and the equity of the Top 20 pharmaceutical company is not used to acquire Pathos) will not constitute a Top 20 pharmaceutical company for purposes of this Subsection, however, in such instance the Top 20 pharmaceutical company that owns or controls the assignee will not constitute an "Affiliate" for purposes of Exhibit 1.

- g. *Subcontracting.* Tempus may subcontract certain of its rights and obligations under this Agreement. Any Tempus subcontractor is subject to the terms of this Agreement that would otherwise apply to Tempus, and Tempus is responsible for the acts and omissions of its subcontractor to the same extent as it is responsible for its own acts and omissions.
- h. *Use of Name and Marks.* To the extent legally required and subject to redaction of information that is not required to be disclosed (e.g., detailed pricing), each Party has the right to make public statements regarding the existence of this Agreement and an accurate description of the Services without the consent of the other Party. Neither Party may use the other Party's name or marks for any other purpose without the other Party's advance written consent. Any approved use of the other Party's logo must be in the approved form and subject to any usage guidelines provided by the other Party.
- i. *Relationship of the Parties.* The Parties are independent contractors. This Agreement does not create a partnership, franchise, joint venture, agency, fiduciary, or employment relationship between the Parties.
- j. *Entire Agreement; Amendments and Waivers.* This Agreement, which includes all Exhibits and fully executed Order Forms and amendments, is the entire understanding between the Parties on its subject matter and supersedes all prior or contemporaneous discussions, representations, and agreements, oral or written, between the Parties. Tempus accepts Client's purchase orders for convenience only, and the terms of any purchase order do not bind Tempus. There are no third party beneficiaries to this Agreement. If any provision in this Agreement is held invalid or unenforceable, the remainder of the Agreement will remain enforceable to the fullest extent permitted by law, so long as such change does not materially change the cost or benefit of the Agreement to a Party. Any term or provision of this Agreement may be amended, and the observance of any term of this Agreement may be waived, only by a writing signed by the Parties. Failure to enforce any term of this Agreement is not a waiver. The terms of any Exhibit or fully executed Order Form will supersede the body of this Agreement to the extent necessary to address a direct conflict.
- k. *Counterparts.* This Agreement may be executed in any number of counterparts, each of which is deemed an original and all of which taken together constitute the Agreement.

Pathos AI, Inc.

Tempus AI, Inc.

Name: Matt De Silva
Title: Chief Operating Officer
Date: 12-Feb-2024

Name: Ryan Bartolucci
Title: CAO
Date: 05-Feb-2024

Exhibit 1

Licensed Data Terms

1. Definitions.

- a. “Affiliate” means a legal entity that is controlled by or under common control with the Party, where “control” means possession, directly or indirectly, of the power to direct the Party’s management or policies, whether through the ownership of voting securities, by contract, or otherwise.
- b. “Analytical Services Results” means Results created by Tempus pursuant to a Licensed Data Order Form.
- c. “Authorized Users” means employees or contractors of Client or Client’s Affiliates, provided that each user will be a named individual who is subject to all applicable terms of this Agreement.
- d. “Covered Recipient” means a physician licensed to practice in the U.S. or a U.S. teaching hospital.
- e. “End User Generated Results” means Results created by Client based, in whole or in part, on Licensed Data.
- f. “Licensed Data” means a subset or cohort of Tempus’s proprietary database of de-identified clinical and molecular data that is transferred from Tempus to Pathos pursuant to the terms and conditions set forth herein, including Downloaded Data, as defined below in this Exhibit.
- g. “License Term” means (i) with respect to Downloaded Data, the Evaluation Period, and (ii) with respect to other Licensed Data licensed pursuant to Sections 4(c)-(d) of this Exhibit, the duration of time listed in an Order Form during which Client maintains a license to such other Licensed Data.
- h. “Payment or Transfer of Value” means a payment or transfer of value as defined in the U.S. Physician Payment Sunshine Act (42 USC § 1320a-7h(e)) and implementing regulations (42 CFR § 403.900 et seq.).
- i. “Permitted Uses” means any use allowed under applicable law that is for Client’s or its Affiliates’ therapeutic product development purposes (including use by Client or its Affiliates in conjunction with a third party collaboration for such purpose, where Client is financially at risk and meaningfully participating in the joint therapeutic product development project) and consistent with this Agreement. Permitted Uses include Client’s use of Licensed Data for Client to develop, train, improve, modify, and create derivative works of Client’s and its Affiliates’ machine learning/artificial intelligence (“AI/ML”) models solely for purposes of therapeutic product development (“Models”), Client’s development of embeddings data, training data, and test data for the Models (provided such data does not involve any impermissible use, reproduction, or retention of the Licensed Data), and Client’s use, deployment, commercialization or licensing of the Models, in all cases, subject to all terms and limitations of the Agreement. Notwithstanding anything to the contrary, Permitted Uses exclude any use of Licensed Data or Results (collectively, the “Permitted Uses Exclusions”):
 - i. to design, develop, or produce any diagnostic product or service (including any algorithmic diagnostic product or service) other than companion diagnostic products or services for therapeutic products under development either by or on behalf of Client or its Affiliates or Client in collaboration with a third party,

- ii. in service of a third party collaboration where (a) the primary purpose of such collaboration is to provide access to, or Results from use of, Licensed Data, (b) Client charges a fee or requires any other exchange of value as consideration for access to Licensed Data, or (c) Licensed Data is used by or on behalf of a third party for purposes independent of or unrelated to (i) therapeutic product development purposes by Client, or (ii) a collaboration between a third party and Client on a joint therapeutic product development project, or
- iii. to provide services to a third party for its therapeutic product development, pursuant to an arrangement in which Client is compensated primarily on a fee-for-service or similar basis.

The Permitted Uses and Permitted Uses Exclusions will survive termination of the Agreement.

- j. “Reproduction” and variations thereof means any reproduction, display, disclosure, or publication of the Licensed Data other than in accordance with the Permitted Uses and all terms of the Agreement. Reproduction and variations thereof also include (i) any copies, excerpts, extracts, or mere translations of the Licensed Data, and (ii) data or information generated through use of a large language model or other AI/ML technology where the end result would allow a user to access or query the Licensed Data directly or would materially serve as a substitute for such access. For clarity, the immediately preceding sentence does not prohibit an Authorized User from accessing or querying downloaded copies of the Licensed Data in the Pathos Environment per Section 4(b) – (c).
- k. “Results” means analyses, summaries, reports, visualizations, information, data, applications, models, and software, excluding diagnostic products or services (including diagnostic software and algorithms) other than as expressly permitted under the definition of “Permitted Uses” above, created with or based on Licensed Data during the License Term, including improvements, enhancements modifications, and derivative works thereof, so long as such Results do not represent a Reproduction of the Licensed Data.

2. License Grants.

- a. *Licensed Data.* Subject to the terms and conditions herein and the Master Agreement (including payment of all fees), Tempus grants Client a limited, non-exclusive, revocable, non-transferable, right and license, without right of sublicense, which may be exercised through Authorized Users, to download, store, copy, use, compile, display, and access the cohort of Licensed Data, or compilations based upon such Licensed Data, only for Permitted Uses during the License Term. Client will ensure that any reproduction, display, disclosure, or publication by Client of results obtained by Client from the use of Licensed Data (or the Licensed Data itself) will be subject to appropriate attribution to Tempus with respect to the use and involvement of the Licensed Data obtained from Tempus (or its licensors) and any mutually agreed proprietary rights and disclaimer language with respect to the Licensed Data.
- b. *Analytical Services.* To the extent documented in a fully executed agreement, Tempus will grant Client a limited, non-exclusive, irrevocable, transferable, perpetual license, with the right to sublicense, to use Analytical Services Results for any lawful purpose.
- c. *End User Generated Results.* To the extent Client creates End User Generated Results during the License Term, Client shall own such End User Generated Results and may continue using the End User Generated Results for Permitted Uses following the expiration or termination of the License Term, so long as such End User Generated Results do not reproduce the Licensed Data.

3. **Licensed Data Services.** Tempus can provide certain Services to assist Client with using, accessing, and understanding the Licensed Data. Tempus will provide the Licensed Data Services described below in an amount (or for the duration) set forth in separate agreements executed by the parties (unless otherwise specified below):
- a. *Technical Services.* Technical Services help Client understand, access, and use the Licensed Data, including training, technical support, implementation guidance, and troubleshooting. Tempus will provide sufficient Technical Services during the Initial Term to enable Pathos to use and access Licensed Data.
 - b. *Analytical Services.* Analytical Services help Client process, examine, analyze, summarize, visualize, and report on the Licensed Data. Tempus leverages its existing technology and know-how to provide Analytical Services to surface factual insights that already exist within the Licensed Data. TEMPUS WILL NOT PROVIDE ANALYTICAL SERVICES UNDER THIS AGREEMENT UNLESS AND UNTIL APPROVED BY TEMPUS IN A SEPARATE MUTUALLY AGREED UPON WORK ORDER.
 - c. *Strategic Collaboration Services.* Strategic Collaboration Services are designed to combine the Licensed Data with each Party's existing technology and know-how to identify new technologies, develop new products, and/or bring new products to market. Unlike Technical Services and Analytical Services, Strategic Collaboration Services must be subject to a separate agreement that sets forth, at a minimum, the Parties' respective obligations, any fees associated with the Strategic Collaboration Services, and the Parties' respective intellectual property rights regarding the results of the Strategic Collaboration Services. TEMPUS WILL NOT PROVIDE STRATEGIC COLLABORATION SERVICES UNDER THIS AGREEMENT UNLESS AND UNTIL APPROVED IN A SEPARATE MUTUALLY AGREED UPON WORK ORDER.

4. **Implementation of Licensed Data Terms.**

- a. *Pathos GCP Instance.* Within 90 days of the Effective Date, the Parties establish a separate and dedicated instance of the Google Cloud Platform within Tempus' secure environment (the "Pathos GCP Instance") to enable Pathos to carry out the research activities described in this Exhibit. Tempus will control the Pathos GCP Instance, but Pathos will cover all associated costs of the GCP cloud repository for Pathos, [***]. Tempus will invoice Pathos for such costs annually in arrears based on [***]. Pursuant to Paragraph 3(a), Tempus will assist Pathos in setting up its own GCP repository and instance, [***].
- b. *Pathos Right to Download De-Identified Records.* Pathos will license Lens pursuant to a separate Subscription Agreement (see Exhibit 2, attached hereto). Pathos will use Lens to identify de-identified records that may be of interest to Pathos. Pathos will be permitted to download to the Pathos GCP Instance up to a maximum of [***] de-identified records at any one time. Pathos may not exceed [***] downloaded records at any one time. If Pathos wants to exceed [***] records, it must return an equal number of records so that the maximum number of records in the Pathos GCP Instance at any time does not exceed [***]. Upon request of files, Tempus will deliver the requested files within [***] business days.

The Parties Agree that Operational Readiness (as such term is defined in the First Amendment) of the Pathos GCP Instance has been achieved. Accordingly, as contemplated in the First Amendment, the number of de-identified records that Pathos is permitted to download at one time will revert to [***] within [***] days of the effective date of this Amended and Restated Master Agreement. In the event that the capabilities necessary for Operational Readiness become materially unavailable

for a period of time, then the Parties may mutually agree (for which email by an authorized representative of each Party will suffice) to temporarily revert the maximum number of records that can be downloaded at one time to [***] records, but only until the Operational Readiness capabilities are restored.

- c. *Evaluation Period for De-Identified Records.* Pathos may download de-identified records to the Pathos GCP Instance for a period of [***] days from the date of download (the "Evaluation Period"). At the end of the [***]-day Evaluation Period, Pathos must either return the downloaded de-identified records to Tempus or license them pursuant to the terms and conditions set forth herein. In all instances, the License Term for use of the Downloaded Data will terminate upon any termination or expiration of the Agreement.
- d. *Transfer of De-Identified Records.* If Pathos elects to license the records, it will be permitted to transfer the files from the Pathos GCP Instance into its own cloud repository subject to (i) Tempus' express written consent (such consent not to be unreasonably withheld), and (ii) the terms and conditions set forth herein. Pathos will indicate its interest to license the de-identified records by providing written notice to Tempus prior to the expiration of the Evaluation Period. Any de-identified record transferred to Pathos pursuant to this Section shall be considered Tempus Licensed Data.
- e. *License Term for De-Identified Records.* Pathos will be permitted to retain each de-identified record it elects to license until the later to occur of (i) [***] years, or (ii) the date on which the applicable de-identified record no longer has a regulatory use for a therapeutic in development (the "Licensed Record Term"). At the conclusion of the Licensed Record Term, Pathos will return or destroy the record and certify such return or destruction in writing.
- f. *Maximum Number of De-Identified Records.* During the Initial Term, Pathos will be entitled to license up to a maximum of [***] de-identified records in the aggregate. During the Renewal Term, if any, Pathos will be entitled to license an additional [***] patient records. Tempus, in its sole discretion, will determine whether Pathos will be permitted to exceed [***] licensed patient records in either the Initial Term or Renewal Term.

5. Compensation.

- a. *Per De-Identified Record Fee.* For each Licensed Data record licensed pursuant to Sections 4(c)-(d) of this Exhibit, Client will pay Tempus an annual license fee that [***].
- b. *Warrant to Acquire Interest in Pathos.* Upon execution of the Agreement, Tempus received a warrant to acquire 23,456,790 shares of Pathos common stock at a per share price of \$.0125. The warrant will exercise automatically immediately preceding a Change of Control or an Initial Public Offering. The Warrant Agreement attached to the Original Agreement is hereby incorporated by reference in its entirety into this Agreement.

6. Use of Licensed Data. The following terms apply to all Licensed Data under this Agreement.

- a. *Restrictions.* Client agrees to the following terms on its behalf and on behalf of all Affiliates and Authorized Users:
 - i. Client will implement rigorous data access controls for Authorized Users. Each Authorized User must acknowledge that the Authorized User has reviewed, understands, and will comply with the terms this Agreement.

- ii. Client is responsible for the acts and omissions of all Authorized Users.
- iii. Any reproduction, display, disclosure, or publication of Results obtained from the use of Licensed Data (or the Licensed Data itself) must include appropriate attribution to Tempus. Reproduction of Licensed Data requires Tempus' prior written consent, which will not be unreasonably withheld.
- iv. Client will not re-identify the Licensed Data as to patient, provider, or practice and will ensure that the Licensed Data is not re-identified. Client will not, and will not permit any third party to, contact any individual whose information may be included in the Licensed Data.
- v. Client will maintain a reasonable internal governance procedure that prohibits and is designed to avoid unintentional or inadvertent re-identification.
- vi. Client will not remove or alter any notice of confidentiality, copyright, trademark, logo or other notice of ownership, origin, or confidentiality in any report, document, or copy of the Licensed Data.
- vii. Client will not access or use Licensed Data for any purpose not permitted by this Agreement.
- viii. Client will not re-sell or transfer Licensed Data (or access to Licensed Data) to any third party who is not an Authorized User without prior written permission from Tempus.
- ix. Any use of Licensed Data resulting in a cohort of fewer than fifteen (15) research subjects/patients per any three digit zip code range is not permitted.
- x. Client will act in an ethical and responsible manner when accessing and using Licensed Data.
- xi. Client agrees that Tempus does not endorse any academic, scientific, or public presentations, or abstracts, posters, or manuscripts, and Client will not attempt to indicate any such endorsement.
- xii. Client will comply with all applicable laws and industry-standard guidelines when carrying out activities under this Agreement, including securities laws, antitrust laws, HIPAA, the U.S. Food and Drug Administration (FDA) Guidance on Industry-Supported Scientific and Educational Activities, the Federal Food, Drug, and Cosmetic Act and associated regulations, federal and state anti-kickback laws and guidance, the Council of Medical Specialty Societies (CMSS) Code of Interactions with Companies, the American Medical Association Code of Medical Ethics and associated opinions, policies adopted by the FDA relating to industry-sponsored educational activities, the Accreditation Council for Continuing Medical Education (ACCME) Standards for Commercial Support, the Pharmaceutical Research and Manufacturers of America (PhRMA) Code on Interactions with Healthcare Professionals, and the ICMJE Recommendations for publication authorship.
- xiii. Client agrees to immediately return Licensed Data at the conclusion of the License Term or termination of the applicable Order Form or this Agreement, subject to the terms contained herein.

- b. *Compliance.*
- i. The funds provided under this Agreement are not being given in exchange for any explicit or implicit agreement to purchase, prescribe, recommend, influence or provide favorable formulary status for Client's products. This Agreement is not for the purpose of promoting any product, service, or company. Client will not and will ensure that Client's Affiliates and Authorized Users do not, offer any inducements to Tempus, any of its Affiliates, or any health care providers relating to this Agreement.
 - ii. Tempus acknowledges that any direct or indirect Payments or Transfers of Value to Covered Recipients are subject to transparency reporting requirements, including disclosure on Client's website. Tempus and Client will not, and Client will ensure that Client's Affiliates do not, knowingly make any indirect or direct Payment or Transfer of Value to a Covered Recipient on behalf of Client in connection with this Agreement without the other Party's consent and prior written approval. Client will report all Payments or Transfers of Value to U.S. Covered Recipients according to a centrally managed, pre-set rate structure based on a fair market value analysis conducted by Client and in accordance with applicable law. Tempus and Client agree that the license to Licensed Data or any other services or products described in agreements executed contemporaneously with this Agreement do not give rise to or constitute a Payment or Transfer of Value to a Covered Recipient.
 - iii. Tempus and Client and their respective Affiliates, representatives, agents and employees will comply with the U.S. Foreign Corrupt Practices Act, as amended, the UK Bribery Act of 2010, and any other applicable anti-corruption laws for the prevention of fraud, racketeering, money laundering or terrorism, and will not knowingly take any action that will, or would reasonably be expected to, cause the other Party or its Affiliates to be in violation of any such laws or policies.
 - iv. Neither Party has received or been offered any illegal or improper payment, bribe, kickback, gift, or other item of value from an employee or agent of the other Party in connection with this Agreement. The Parties intend for their relationship and interactions to comply with the following: (i) the federal anti-kickback statute (42 U.S.C. § 1320a-7b(b)) and the associated safe harbor regulations; and (ii) the limitation on certain physician referrals (Stark Law) (42 U.S.C. § 1395nn). Accordingly, no part of any remuneration provided under this Agreement or any other agreement between the Parties is a prohibited payment in exchange for recommending or arranging for the referral of business or the ordering of items or services, or otherwise intended to induce illegal referrals of business.
- c. *Regulatory Filings.* Client will have sole control over any regulatory filings with respect to results obtained from use of Licensed Data. Client may disclose limited portions of the Licensed Data to governmental authorities to the extent necessary to support such filings, if Client uses all reasonable efforts to protect the confidentiality of the Licensed Data, limit the risk of re-identification, and properly attribute Licensed Data to Tempus. Any disclosure beyond the limited disclosure described in this paragraph shall require Tempus' prior written consent, which shall not be unreasonably withheld.
- d. *Security Incident Reporting.* Each Party agrees to notify the other Party promptly, but in no event later than ten (10) business days after becoming aware of the occurrence of: (i) a potential security breach involving Licensed Data; (ii) re-identification of any of the Licensed Data; (iii) a complaint related to a request for access to the Licensed Data; or (iv) any inquiry, investigation, audit, or

government enforcement action related to the Licensed Data. If Client or any of Client's Affiliates becomes legally compelled to disclose any Licensed Data then to the extent permitted by applicable law, Client will notify Tempus as soon as practical, but in any event within ten (10) business days of learning of such requirement, so that Tempus may seek a protective order or other appropriate remedy. If any of the events set out in this Section occurs, Client agree to cooperate and cause Client's Affiliates to cooperate with Tempus and take any actions reasonably requested by Tempus to minimize the re-identification risk and potential damage resulting from the event.

- e. *Non-Exclusivity.* This is a non-exclusive agreement. Nothing in this Agreement will prevent Tempus from (a) making available to other clients the same or substantially similar services and licenses, or (b) making available to other Tempus clients custom data sets that are the same or similar to the Licensed Data, so long as none of the foregoing include use of Client's Confidential Information. Client acknowledges that Tempus' or Tempus licensees' use of Licensed Data may result in the same or similar outcomes, conclusions, reports, and other results.
- f. *NO OTHER REPRESENTATIONS OR WARRANTIES. EXCEPT AS EXPRESSLY PROVIDED:*
- i. TEMPUS DISCLAIMS ANY AND ALL EXPRESS, IMPLIED, STATUTORY, AND OTHER WARRANTIES AND REPRESENTATIONS OF ANY KIND, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUALITY OF INFORMATION, OR TITLE.
 - ii. TEMPUS MAKES NO REPRESENTATIONS OR WARRANTIES ABOUT THE SUITABILITY OR ACCURACY OF ANY SERVICES, THE LICENSED DATA, OR ANY OTHER TEMPUS MATERIALS. TEMPUS USES DATA PROVIDED TO TEMPUS BY THIRD PARTIES THAT HAS BEEN DE-IDENTIFIED TO CREATE THE LICENSED DATA "AS IS" AND IS NOT RESPONSIBLE FOR THE ACCURACY, COMPLETENESS, AND/OR INTEGRITY OF SUCH DATA. TEMPUS DISCLAIMS ANY LIABILITY RESULTING FROM ANY SUCH ISSUES RELATING TO SUCH DATA. TEMPUS HAS NO LIABILITY FOR CLINICAL, OPERATIONAL, BUSINESS, OR ANY OTHER DECISIONS MADE BY YOU, YOUR AFFILIATES, OR AUTHORIZED USERS BASED ON THE LICENSED DATA.
 - iii. ALL TECHNOLOGY, RIGHTS AND SERVICES ARE LICENSED AND OTHERWISE PROVIDED "AS IS," "WHERE-IS," AND "WITH ALL FAULTS."

Exhibit 2
Lens Subscription Agreement

This Subscription Agreement (the “Subscription Agreement”) is entered into by and between Tempus AI, Inc. (“Tempus”) and Pathos AI, Inc. (“Client”), incorporates by reference the Lens Terms of Use (accessible via Lens), and is subject to that Master Agreement entered into between the Parties.

1. Software and Accounts.

- a. *Software.* The “Software” is Tempus’ LENS software, an online application that permits the viewing and analysis of clinical, molecular, and other health data (collectively “Data”) maintained by Tempus. The Software provides a view of health information that does not include the 18 identifiers listed in the Safe Harbor method for de-identification set forth in 45 C.F.R. § 164.514(b)(2)(i). The features, functionality, user interface, look-and-feel, and other aspects of the Software may change from time to time in Tempus’ sole discretion, provided that Tempus will provide Client with the most recent version of the Software so long as Client remains current on the Subscription Fee.
- b. *Provision of LENS.* Tempus will make the Software available to Client pursuant to this Subscription Agreement. Client may provide Software access to up to [***] named employees or contractors of Client or its affiliates, and Client will notify Tempus which such individuals should be granted access to the Software (each, a “User”). Client will also provide Tempus with contact information for one or more authorized representatives to manage all available access limitations. Tempus will rely on Client and/or its authorized representative to manage its LENS permissions. Each User must keep their account credentials for the Software confidential. Client is responsible for all acts and omissions of its Users.

2. Subscription Fee. Pathos will pay Tempus \$400,000 per year for the duration of the Term. Tempus will issue the first invoice as of the Effective Date and subsequent invoices annually through the fourth anniversary of the Effective Date. The total Subscription Fee will be \$2 million during the initial Term, and shall continue at the same rate if the Master Agreement is extended for another 5 years.

3. Term and Termination. The Term of the Master Agreement is incorporated by reference. In addition, Client’s license to use the Software will terminate as of the termination date. In addition, Tempus may suspend Client’s access to the Software without liability, if (a) Client or any User breaches this Subscription Agreement, (b) Tempus has reason to believe that Client or any person or entity accessing the Software through Client is abusing the Software or is using it unlawfully or in a manner that threatens the security or integrity of the Software.

4. Optional Structured Data Services for Healthcare Providers.

- a. *Data Updates.* The health data made available to Client through the Software may include the health records of patients who received care or participated in research through Client and/or its affiliates. Some patients may have received next-generation sequencing through Tempus. Client may provide Tempus with updated medical records from such patients or records of other patients who received sequencing or other testing from laboratories other than Tempus (collectively, “Data Updates”), to improve the view of the health data available to Client through the Software.
- b. *Description of Data Structuring Services.* If Client provides Data Updates to Tempus, Tempus will extract data elements from the records, organize those data elements into a structured format, and make the structured data available through the Software. Tempus will treat all protected health information received under this Section 4 in accordance with the terms of the BAA. Client retains ownership of any protected health information provided to Tempus hereunder.

5. **Client Policies.** Client agrees that it is solely responsible for complying with all of it and its affiliates' policies, rules, guidelines, and similar requirements, including requirements that govern patient consent and the collection, processing, transfer, analysis, use, and storage of protected health information ("Client Policies"). Client will only provide data to Tempus, and use the data accessible through the Software, to the extent such transfer and use, as well as Tempus' use of the data in accordance with this Subscription Agreement, complies with Client Policies. Tempus disclaims any responsibility and liability for any breach of Client Policies.
6. **Data Use.** Through its use of the Software, Client and its Users may have access to de-identified data from Tempus' database that does not originate from Client (the "Licensed Data"). With respect to the Licensed Data, Client agrees to the Licensed Data Terms set forth in Exhibit 1 on behalf itself and all Users.
7. **Additional Terms.**
 - a. *No orders required.* Client and its ordering clinicians are under no obligation to recommend, order, or otherwise refer Tempus tests or services in order to have access to the Software.
 - b. *Assignment.* This Subscription Agreement is binding upon, and will inure to the benefit of, the successors and permitted assigns of the Parties. Either Party may assign its rights and responsibilities under this Subscription Agreement to any of its affiliates or in connection with a merger, acquisition, corporate reorganization or sale of all or substantially all of its assets, provided that the assignee agrees in writing to be bound by the terms of this Agreement, and also provided that Client may not assign this Agreement if the assignee is a Top 20 pharmaceutical company based on annual revenue for the trailing 12 months prior to assignment without the prior written consent of Tempus, not to be unreasonably withheld.

Exhibit 3

Warrant Agreement

[attached]

THIS WARRANT AND THE UNDERLYING SECURITIES HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE “ACT”). THEY MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT AS TO SUCH SECURITIES UNDER THE ACT OR AN OPINION OF COUNSEL SATISFACTORY TO THE COMPANY THAT SUCH REGISTRATION IS NOT REQUIRED OR UNLESS SOLD PURSUANT TO RULE 144 UNDER THE ACT.

PATHOS AI, INC.

WARRANT TO PURCHASE COMMON STOCK

August 19, 2021

THIS CERTIFIES THAT, for value received, **TEMPUS LABS, INC.**, a Delaware corporation with a principal office at the address set forth on the signature page hereto, or such person’s or entity’s assigns (the “**Holder**”), is entitled to subscribe for and purchase from **PATHOS AI, INC.**, a Delaware corporation (the “**Company**”), the Exercise Shares at the Exercise Price (each subject to adjustment as provided herein).

1. DEFINITIONS. As used herein, the following terms shall have the following respective meanings:

(a) “**Aggregate Exercise Price**” shall mean the aggregate Exercise Price payable in connection with the exercise in full of this Warrant.

(b) “**Change of Control**” shall mean (i) any consolidation or merger of the Company with or into any other corporation or other entity or person, or any other corporate reorganization, other than any such consolidation, merger or reorganization in which the stockholders of the Company immediately prior to such consolidation, merger or reorganization, continue to hold at least a majority of the voting power of the surviving entity in substantially the same proportions (or, if the surviving entity is a wholly owned subsidiary, its parent) immediately after such consolidation, merger or reorganization; (ii) any transaction or series of related transactions to which the Company is a party in which the stockholders of the Company transfer shares in excess of fifty percent (50%) of the Company’s then-outstanding combined voting power; provided that a Change of Control shall not include any transaction or series of transactions principally for bona fide equity financing purposes in which cash is received by the Company or any successor or indebtedness of the Company is cancelled or converted or a combination thereof; or (iii) a sale, lease, exclusive license or other disposition of all or substantially all of the assets of the Company.

(c) “**Exercise Period**” shall mean the period commencing on the date hereof and ending on the 20-year anniversary of the date of this Warrant, unless sooner terminated as provided below; provided, that if such period is determined or held to be invalid, illegal or unenforceable in any jurisdiction, it will be construed by limiting and reducing it, so as to be valid, legal and enforceable to the extent compatible with then-applicable law.

(d) “**Exercise Price**” shall mean \$0.0125 per Exercise Share, subject to adjustment as set forth herein.

(e) “**Exercise Shares**” shall mean 23,456,790 shares of the Company’s Common Stock, par value \$0.0001 per share, issuable upon exercise of this Warrant, subject to adjustment as set forth herein.

(f) “*IPO*” shall mean an initial public offering of securities of the Company registered under the Act.

2. EXERCISE OF WARRANT.

2.1 Exercise. The rights represented by this Warrant may be exercised in whole but not in part (i) during the ten (10) day period immediately prior to the end of the Exercise Period or (ii) automatically pursuant to Section 7.1 hereof, by delivery of the following to the Company at its address set forth on the signature page hereto (or at such other address as it may designate by notice in writing to the Holder):

- (a) an executed Notice of Exercise in the form attached hereto as **EXHIBIT A**;
- (b) payment of the Exercise Price in cash or by check or wire transfer; and
- (c) this Warrant.

2.2 Mechanics of Exercise. Upon the exercise of the rights represented by this Warrant, a certificate or certificates for the Exercise Shares so purchased, registered in the name of the Holder or persons affiliated with the Holder, if the Holder so designates, shall be issued and delivered to the Holder within a reasonable time after the rights represented by this Warrant shall have been so exercised. The person in whose name any certificate or certificates for Exercise Shares are to be issued upon exercise of this Warrant shall be deemed to have become the holder of record of such shares on the date on which this Warrant was surrendered and payment of the Exercise Price was made, irrespective of the date of delivery of such certificate or certificates, except that, if the date of such surrender and payment is a date when the stock transfer books of the Company are closed, such person shall be deemed to have become the holder of such shares at the close of business on the next succeeding date on which the stock transfer books are open.

3. COVENANTS OF THE COMPANY.

3.1 Covenants as to Exercise Shares. The Company covenants and agrees that all Exercise Shares that may be issued upon the exercise of the rights represented by this Warrant will, upon issuance, be validly issued and outstanding, fully paid and nonassessable, and free from all taxes, liens and charges with respect to the issuance thereof. The Company further covenants and agrees that the Company will at all times during the Exercise Period have authorized and reserved a sufficient number of shares of the series of equity securities comprising the Exercise Shares to provide for the exercise of the rights represented by this Warrant. The issuance of the Exercise Shares will not be subject to any preemptive rights that have not been properly complied with.

3.2 Notices of Record Date. In the event of any taking by the Company of a record of the holders of any class and/or series of securities for the purpose of determining the holders thereof who are entitled to receive any dividend or other distribution, the Company shall mail to the Holder, at least ten days prior to the date specified herein, a notice specifying the date on which any such record is to be taken for the purpose of such dividend or distribution.

4. REPRESENTATIONS OF HOLDER.

4.1 Acquisition of Warrant for Personal Account. The Holder represents and warrants that it is acquiring this Warrant and the Exercise Shares solely for its account for investment and not with a view to or for sale or distribution of said Warrant or Exercise Shares or any part thereof. The Holder also represents that the entire legal and beneficial interests of this Warrant and Exercise Shares the Holder is acquiring is being acquired for, and will be held for, its account only.

4.2 Securities Are Not Registered.

(a) The Holder understands that this Warrant and the Exercise Shares have not been registered under the Securities Act of 1933, as amended (the “*Act*”) on the basis that no distribution or public offering of the stock of the Company is to be effected. The Holder realizes that the basis for the exemption may not be present if, notwithstanding its representations, the Holder has a present intention of acquiring the securities for a fixed or determinable period in the future, selling (in connection with a distribution or otherwise), granting any participation in, or otherwise distributing the securities. The Holder has no such present intention.

(b) The Holder recognizes that this Warrant and the Exercise Shares must be held indefinitely unless they are subsequently registered under the Act or an exemption from such registration is available. The Holder recognizes that the Company has no obligation to register this Warrant or the Exercise Shares of the Company, or to comply with any exemption from such registration.

(c) The Holder is aware that neither this Warrant nor the Exercise Shares may be sold pursuant to Rule 144 adopted under the Act unless certain conditions are met, including, among other things, the existence of a public market for the shares, the availability of certain current public information about the Company, the resale following the required holding period under Rule 144 and the number of shares being sold during any three month period not exceeding specified limitations. Holder is aware that the conditions for resale set forth in Rule 144 have not been satisfied and that the Company presently has no plans to satisfy these conditions in the foreseeable future.

4.3 Disposition of Warrant and Exercise Shares.

(a) The Holder further agrees not to make any disposition of all or any part of this Warrant or Exercise Shares in any event unless and until:

(i) The Company shall have received a letter secured by the Holder from the Securities and Exchange Commission stating that no action will be recommended to the Commission with respect to the proposed disposition;

(ii) There is then in effect a registration statement under the Act covering such proposed disposition and such disposition is made in accordance with said registration statement; or

(iii) The Holder shall have notified the Company of the proposed disposition and shall have furnished the Company with a detailed statement of the circumstances surrounding the proposed disposition, and if reasonably requested by the Company, the Holder shall have furnished the Company with an opinion of counsel, reasonably satisfactory to the Company, for the Holder to the effect that such disposition will not require registration of such Warrant or Exercise Shares under the Act or any applicable state securities laws. The Company agrees that it will not require an opinion of counsel with respect to transactions under Rule 144 of the Act, except in unusual circumstances, and will not require an opinion of counsel with respect to any transfer to an affiliate of Holder.

(b) The Holder understands and agrees that all certificates evidencing the shares to be issued to the Holder may bear the following legend:

THESE SECURITIES HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE “*ACT*”). THEY MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT AS TO THE SECURITIES UNDER THE ACT OR AN OPINION OF COUNSEL SATISFACTORY TO THE COMPANY THAT SUCH REGISTRATION IS NOT REQUIRED OR UNLESS SOLD PURSUANT TO RULE 144 UNDER THE ACT.

4.4 Accredited Investor Status. The Holder is an “accredited investor” as defined in Regulation D promulgated under the Act.

5. ADJUSTMENT OF EXERCISE PRICE AND NUMBER OF EXERCISE SHARES.

5.1 Changes in Securities. In the event of changes in the series of equity securities of the Company comprising the Exercise Shares by reason of stock dividends, splits, recapitalizations, reclassifications, combinations or exchanges of such shares of equity securities, the number and class and/or series of Exercise Shares available under this Warrant in the aggregate and the Exercise Price shall be correspondingly adjusted to give the Holder of this Warrant, on exercise for the same Aggregate Exercise Price, the total number and class and/or series of shares as the Holder would have owned had this Warrant been exercised prior to the event and had the Holder continued to hold such shares until after the event requiring adjustment. The form of this Warrant need not be changed because of any adjustment in the number of Exercise Shares subject to this Warrant.

5.2 Organic Changes. In the event of, at any time during the Exercise Period, any capital reorganization of the capital stock of the Company (other than (a) a change in par value or from par value to no par value or no par value to par value or as a result of a stock dividend or subdivision, split-up or combination of shares, or (b) a Change in Control) (an “*Organic Change*”), then, as a condition of such Organic Change, lawful and adequate provisions shall be made by the Company whereby the Holder hereof shall thereafter have the right to purchase and receive (in lieu of the Exercise Shares of the Company immediately theretofore purchasable and receivable upon the exercise of the rights represented hereby) such shares of stock, securities or other assets or property as may be issued or payable with respect to or in exchange for a number of outstanding shares of such Exercise Shares equal to the number of shares of such stock immediately theretofore purchasable and receivable upon the exercise of the rights represented hereby, and the Exercise Price shall be appropriately adjusted so that the Aggregate Exercise Price after such Organic Change shall be equal to the Aggregate Exercise Price immediately prior to such Organic Change.

6. FRACTIONAL SHARES. No fractional shares shall be issued upon the exercise of this Warrant as a consequence of any adjustment pursuant hereto. All Exercise Shares (including fractions) to be issued upon exercise of this Warrant shall be aggregated for purposes of determining whether the exercise would result in the issuance of any fractional share. If, after aggregation, the exercise would result in the issuance of a fractional share, the Company shall, in lieu of issuance of any fractional share, pay the Holder otherwise entitled to such fraction a sum in cash equal to the product resulting from multiplying the then current fair market value of one Exercise Share by such fraction.

7. AUTOMATIC EXERCISE UPON IPO OR CHANGE OF CONTROL; EARLY TERMINATION.

7.1 Automatic Exercise; Early Termination. In the event of an IPO or a Change of Control at any time during the Exercise Period, the Company shall provide to the Holder ten (10) days advance written notice of such IPO or Change of Control. Notwithstanding anything in this Warrant to the contrary, in the event of an IPO or a Change of Control and the fair market value of one Exercise Share

would be greater than the Exercise Price in effect on such date immediately prior to such IPO or Change of Control, then this Warrant shall automatically be deemed to be exercised pursuant to Section 2.1 above effective immediately prior to and contingent upon the consummation of such IPO or Change of Control. In the event of an IPO or a Change of Control where the fair market value of one Exercise Share would be less than the Exercise Price in effect immediately prior to such IPO or Change of Control, then this Warrant will terminate immediately prior to the consummation of such IPO or Change of Control.

7.2 Voluntary Cancellation. Notwithstanding anything in this Warrant to the contrary, the Company hereby agrees and acknowledges that this Warrant may be cancelled and terminated for no consideration at any time prior to the end of the Exercise Period by delivery of written notice by the Holder to the Company.

8. MARKET STAND-OFF AGREEMENT. Holder hereby agrees that it will not, without the prior written consent of the managing underwriter, during the period commencing on the date of the final prospectus relating to the registration by the Company of shares of its Common Stock or any other equity securities under the Securities Act on a registration statement on Form S-1, and ending on the date specified by the Company (as determined by the holders of capital stock of the Company representing a majority of the voting power of all then-outstanding shares of capital stock of the Company) and the managing underwriter (which period may exceed 180 days in the case of the IPO), (a) lend, offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right, or warrant to purchase, or otherwise transfer or dispose of, directly or indirectly, any shares of Common Stock or any securities convertible into or exercisable or exchangeable (directly or indirectly) for Common Stock held immediately before the effective date of the registration statement for such offering, or (b) enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of such securities, whether any such transaction described in clause (a) or (b) above is to be settled by delivery of Common Stock or other securities, in cash, or otherwise. The foregoing provisions of this Section 8 shall not apply to the sale of any shares to an underwriter pursuant to an underwriting agreement and shall be applicable to the Holders only if all executive officers and directors of the Company are subject to the same restrictions. The underwriters in connection with such registration are intended third-party beneficiaries of this Section 8 and shall have the right, power and authority to enforce the provisions hereof as though they were a party hereto. Each Holder further agrees to execute such agreements as may be reasonably requested by the underwriters in connection with such registration that are consistent with this Section 8 or that are necessary to give further effect thereto.

9. NO STOCKHOLDER RIGHTS. This Warrant in and of itself shall not entitle the Holder to vote or receive dividends or other distributions with respect to, or be deemed the holder of, the Exercise Shares or any other securities of the Company that may at any time be issuable upon the exercise hereof for any purpose, nor shall anything contained herein be construed to confer upon the Holder, as such, any of the rights of a stockholder of the Company or any right to vote for the election of directors or upon any other matter submitted to the stockholders of the Company at any meeting thereof, or to give or withhold consent to any corporate action (whether upon any recapitalization, issuance or reclassification of equity securities, consolidation, merger, conveyance or otherwise) or to receive notice of meetings, or to receive purchase or subscription rights or otherwise, until the Warrant shall have been exercised as provided herein. For clarity, this Section 9 shall be construed as limiting the rights of the Holder only with respect to the Warrant, the Exercise Shares and other securities of the Company that may at any time be issuable upon the exercise hereof for any purpose, and shall not be construed as limiting the rights of the Holder with respect to any other securities of the Company.

10. TRANSFER OF WARRANT. This Warrant is not transferable, in whole or in part, by the Holder without the prior written consent of the Company, and any attempted assignment without such consent shall be void. A change in control of the Holder, for example by merger, sale of stock or sale of

assets, shall not be deemed to be an assignment under this Warrant. Subject to the foregoing restrictions, applicable laws and the restriction on transfer set forth on the first page of this Warrant, in connection with any transfer of this Warrant, the Holder shall deliver this Warrant and the form of assignment attached hereto as **EXHIBIT B** to the Company, and the transferee shall sign an investment representation letter in form and substance satisfactory to the Company.

11. AGREEMENT TO BECOME PARTY TO ADDITIONAL AGREEMENTS. As a condition to the issuance of the Exercise Shares upon exercise of this Warrant, at the request of the Company, Holder shall execute and deliver any applicable securityholders' agreement, investor rights agreement, voting agreement, drag along agreement, right of first refusal and co-sale agreement or similar agreement (or a joinder to any existing agreement) that the Company and/or the holders of its securities may enter into or that otherwise that may be in effect from time to time (and which may contain, among other provisions, additional restrictions on transfer).

12. LOST, STOLEN, MUTILATED OR DESTROYED WARRANT. If this Warrant is lost, stolen, mutilated or destroyed, the Company may, on such terms as to indemnity or otherwise as it may reasonably impose (which shall, in the case of a mutilated Warrant, include the surrender thereof), issue a new Warrant of like denomination and tenor as this Warrant so lost, stolen, mutilated or destroyed. Any such new Warrant shall constitute an original contractual obligation of the Company, whether or not the allegedly lost, stolen, mutilated or destroyed Warrant shall be at any time enforceable by anyone.

13. CUMULATIVE REMEDIES. The rights and remedies provided in this Warrant are cumulative and are not exclusive of, and are in addition to and not in substitution for, any other rights or remedies available at law, in equity or otherwise.

14. EQUITABLE RELIEF. Each of the Company and the Holder acknowledges that a breach or threatened breach by such party of any of its obligations under this Warrant would give rise to irreparable harm to the other party hereto for which monetary damages would not be an adequate remedy and hereby agrees that in the event of a breach or a threatened breach by such party of any such obligations, the other party hereto shall, in addition to any and all other rights and remedies that may be available to it in respect of such breach, be entitled to equitable relief, including a restraining order, an injunction, specific performance and any other relief that may be available from a court of competent jurisdiction.

15. NOTICES, ETC. All notices required or permitted hereunder shall be in writing and shall be deemed effectively given: (a) upon personal delivery to the party to be notified, (b) when sent by electronic transmission or facsimile if sent during normal business hours of the recipient, if not, then on the next business day, (c) five days after having been sent by registered or certified mail, return receipt requested, postage prepaid, or (d) one day after deposit with a nationally recognized overnight courier, specifying next day delivery, with written verification of receipt. All communications shall be sent to each of the Company and the Holder at the address listed on their respective signature pages hereto or at such other address as the Company or Holder may designate by ten days' advance written notice to the other party.

16. SUCCESSOR AND ASSIGNS. This Warrant and the rights evidenced hereby shall be binding upon and shall inure to the benefit of the parties hereto and the successors of the Company and the successors and permitted assigns of the Holder. Such successors and/or permitted assigns of the Holder shall be deemed to be a Holder for all purposes hereunder.

17. NO THIRD-PARTY BENEFICIARIES. This Warrant is for the sole benefit of the Company and the Holder and their respective successors and, in the case of the Holder, permitted assigns and nothing herein, express or implied, is intended to or shall confer upon any other Person any legal or equitable right, benefit or remedy of any nature whatsoever, under or by reason of this Warrant.

18. HEADINGS. The headings in this Warrant are for reference only and shall not affect the interpretation of this Warrant.

19. AMENDMENT AND MODIFICATION; WAIVER. Except as otherwise provided herein, this Warrant may only be amended, modified or supplemented by an agreement in writing signed by each party hereto. No waiver by the Company or the Holder of any of the provisions hereof shall be effective unless explicitly set forth in writing and signed by the party so waiving. No waiver by any party shall operate or be construed as a waiver in respect of any failure, breach or default not expressly identified by such written waiver, whether of a similar or different character, and whether occurring before or after that waiver. No failure to exercise, or delay in exercising, any rights, remedy, power or privilege arising from this Warrant shall operate or be construed as a waiver thereof; nor shall any single or partial exercise of any right, remedy, power or privilege hereunder preclude any other or further exercise thereof or the exercise of any other right, remedy, power or privilege.

20. SEVERABILITY. If any term or provision of this Warrant is invalid, illegal or unenforceable in any jurisdiction, such invalidity, illegality or unenforceability shall not affect any other term or provision of this Warrant or invalidate or render unenforceable such term or provision in any other jurisdiction.

21. ACCEPTANCE. Receipt of this Warrant by the Holder shall constitute acceptance of and agreement to all of the terms and conditions contained herein.

22. GOVERNING LAW. This Warrant and all rights, obligations and liabilities hereunder shall be governed by and construed under the laws of the State of Delaware as applied to agreements among Delaware residents, made and to be performed entirely within the State of Delaware without giving effect to conflicts of laws principles.

23. COUNTERPARTS. This Warrant may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. Counterparts may be delivered via facsimile, electronic mail (including pdf or any electronic signature complying with the U.S. federal ESIGN Act of 2000, Uniform Electronic Transactions Act or other applicable law) or other transmission method and any counterpart so delivered will be deemed to have been duly and validly delivered and be valid and effective for all purposes.

[Signature Pages Follow]

IN WITNESS WHEREOF, the parties have caused this Warrant to be executed as of the date first written above.

PATHOS AI, INC.

By: /s/ Mike Mauceri

Name: Mike Mauceri

Title: Acting CFO

Address:

c/o The Corporation Trust Company
Corporation Trust Center
1209 Orange Street
Wilmington, DE 19801

TEMPUS LABS, INC.

By: /s/ Jim Rogers

Name: Jim Rogers

Title: Chief Financial Officer

Address:

600 West Chicago Ave.
Suite 510
Chicago, Illinois 60654

EXHIBIT A

NOTICE OF EXERCISE

TO: PATHOS AI, INC.

(1) The undersigned hereby elects to purchase _____ shares of Common Stock (the “*Exercise Shares*”) of Pathos AI, Inc. (the “*Company*”) pursuant to the terms of the attached Warrant, and tenders herewith payment of the exercise price in full, together with all applicable transfer taxes, if any.

(2) Please issue a certificate or certificates representing said Exercise Shares, if applicable, in the name of the undersigned or in such other name as is specified below:

(Name)

(3) The undersigned represents that (i) the aforesaid Exercise Shares are being acquired for the account of the undersigned for investment and not with a view to, or for resale in connection with, the distribution thereof and that the undersigned has no present intention of distributing or reselling such shares; (ii) the undersigned is aware of the Company’s business affairs and financial condition and has acquired sufficient information about the Company to reach an informed and knowledgeable decision regarding its investment in the Company; (iii) the undersigned is experienced in making investments of this type and has such knowledge and background in financial and business matters that the undersigned is capable of evaluating the merits and risks of this investment and protecting the undersigned’s own interests; (iv) the undersigned understands that Exercise Shares issuable upon exercise of this Warrant have not been registered under the Securities Act of 1933, as amended (the “*Act*”), by reason of a specific exemption from the registration provisions of the Act, which exemption depends upon, among other things, the bona fide nature of the investment intent as expressed herein, and, because such securities have not been registered under the Act, they must be held indefinitely unless subsequently registered under the Act or an exemption from such registration is available; (v) the undersigned is aware that the aforesaid Exercise Shares may not be sold pursuant to Rule 144 adopted under the Act unless certain conditions are met and until the undersigned has held the shares for the number of years prescribed by Rule 144, that the conditions for use of the Rule may include the availability of current information to the public about the Company and the Company has not made such information available and has no present plans to do so; and (vi) the undersigned agrees not to make any disposition of all or any part of the aforesaid shares of Exercise Shares unless and until there is then in effect a registration statement under the Act covering such proposed disposition and such disposition is made in accordance with said registration statement, or, if reasonably requested by the Company, the undersigned has provided the Company with an opinion of counsel satisfactory to the Company, stating that such registration is not required, subject to any exceptions set forth in the attached Warrant.

(4) The undersigned acknowledges and agrees that, if requested by the Company, the undersigned shall execute and deliver any applicable securityholders’ agreement, investor rights agreement, voting agreement, drag along agreement, right of first refusal and co-sale agreement or similar agreement (or a joinder to any existing agreement) that the Company and/or the holders of its securities may enter into or that otherwise that may be in effect from time to time (and which may contain, among other provisions, additional restrictions on transfer).

(Date)

(Signature)

(Print name)

EXHIBIT B

ASSIGNMENT FORM

(To assign the foregoing Warrant, execute this form and supply required information.
Do not use this form to purchase shares.)

FOR VALUE RECEIVED, the foregoing Warrant and all rights evidenced thereby are hereby assigned to

Name: _____
(Please Print)

Address: _____
(Please Print)

E-Mail: _____
(Please Print)

Assignee's
Signature: _____

Dated: _____, 20__

Holder's
Name:

Holder's
Signature: _____

Holder's
Address: _____

NOTE: The signature to this Assignment Form must correspond with the name as it appears on the face of this Warrant, without alteration or enlargement or any change whatever. Officers of corporations and those acting in a fiduciary or other representative capacity should file proper evidence of authority to assign the foregoing Warrant.

NOTE: As a condition to the assignment of this Warrant, if requested by the Company, the assignee of this Warrant shall execute and deliver any applicable securityholders' agreement, investor rights agreement, voting agreement, drag along agreement, right of first refusal and co-sale agreement or similar agreement (or a joinder to any existing agreement) that the Company and/or the holders of its securities may enter into or that otherwise that may be in effect from time to time (and which may contain, among other provisions, additional restrictions on transfer).

NOTE: THE ASSIGNEE OF THIS WARRANT AGREES TO BE BOUND BY ALL THE TERMS AND OBLIGATIONS OF THIS WARRANT AS IF ASSIGNEE WERE THE ORIGINAL HOLDER PARTY THERETO.

CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [*], HAS BEEN OMITTED BECAUSE TEMPUS AI, INC. HAS DETERMINED THE INFORMATION (I) IS NOT MATERIAL AND (II) WOULD LIKELY CAUSE COMPETITIVE HARM TO TEMPUS AI, INC. IF PUBLICLY DISCLOSED.**

JOINT VENTURE AGREEMENT

by and among

SOFTBANK GROUP CORP.,

SOFTBANK GROUP JAPAN CORPORATION,

TEMPUS AI, INC.

and

PEGASOS CORP.

May 18, 2024

TABLE OF CONTENTS

	Page
1. Definitions	1
2. Purpose of Joint Venture	10
3. Joint Venture Entity	10
4. Closing; Conditions to Close	10
5. Reasonable Best Efforts to Complete; Closing Regulatory Approvals	12
6. Funding of the Company	15
7. Governance of the Company	21
8. Transfer of Company Securities	31
9. Additional Covenants of the Initial Shareholders and the Company	33
10. Representations and Warranties of the SBG Shareholder	39
11. Representations and Warranties of the Tempus Shareholder	41
12. Fair Market Value	43
13. Term and Termination; Withdrawal of Shareholders	43
14. General Provisions	45

TABLE OF SCHEDULES

Schedule 7.11	-	Shareholder Reserved Matters
Schedule 7.13(a)	-	Initial Business Plan Principles

TABLE OF EXHIBITS

Exhibit A	-	Form of Articles of Incorporation
Exhibit B	-	Form of License Fees Payment Timing Confirmation
Exhibit C	-	Form of SBG Subscription Agreement
Exhibit D-1	-	Form of Tempus Common Stock Subscription Agreement
Exhibit D-2	-	Form of Tempus Class A Stock Subscription Agreement

JOINT VENTURE AGREEMENT

This JOINT VENTURE AGREEMENT (this “Agreement”) is made effective as of May 18, 2024 (the “Effective Date”), by and among SoftBank Group Corp., a Japanese *kabushiki kaisha* (the “SBG Shareholder”), SoftBank Group Japan Corporation, a Japanese *kabushiki kaisha* (the “SBG Class A Shareholder”), Tempus AI, Inc., a Delaware corporation (the “Tempus Shareholder”) and Pegasos Corp., a Japanese *kabushiki kaisha* (the “Company”). The SBG Shareholder and the Tempus Shareholder are hereunder also referred to together as the “Initial Shareholders” and each individually as an “Initial Shareholder.” Unless otherwise specified in this Agreement or the context otherwise requires, any capitalized terms used in this Agreement have the meanings assigned to such terms in Section 1.

RECITALS

A. The SBG Shareholder is an investment and holding company headquartered in Tokyo, Japan.

B. The Tempus Shareholder is a developer and provider of an intelligent diagnostics platform using artificial intelligence for practical applications in healthcare, including for purposes of developing new treatment plans for patients with cancer.

C. Prior to the execution of this Agreement, the SBG Shareholder or one or more of its Affiliates has subscribed for certain Series G-5 Preferred Stock of the Tempus Shareholder pursuant to certain financing documents.

D. Concurrently with the execution of this Agreement, (1) the Tempus Shareholder and the Company have entered into the IP License Agreement, (2) the Tempus Shareholder and the Company have entered into the Data License Agreement, (3) the SBG Shareholder (or its designated Affiliates) and the Company have entered into the SBG Services Agreement and (4) the Tempus Shareholder and the Company have entered into the Tempus Services Agreement, each of which will become effective on, and contingent upon, the Closing, except the Data License Agreement which will become effective on the Effective Date.

E. The Initial Shareholders desire to form a joint venture to pursue the Business, which joint venture will operate through the Company, as set forth herein.

NOW THEREFORE, for valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Initial Shareholders hereby agree as follows:

AGREEMENT

1. Definitions

For purposes of this Agreement:

1.1 “Affiliate” means any Person: (a) that is controlled by, controls or is under common control with a Shareholder (collectively, a “Controlled Person”), or (b) that is controlled by, controls or is under common control with any such Controlled Person, in each case for so long as

such control continues. For purposes of this definition, “control” (including, with correlative meaning, the terms “controlling”, “controlled by” and “under common control with”) shall mean (x) the possession, directly or indirectly, of power to direct or cause the direction of management or policies of such Person (whether through ownership of securities or voting rights or other ownership interests, by Contract or otherwise); (y) the ownership of more than 50% of the issued share capital or other voting rights of such entity; or (z) the power to appoint a majority of the directors, managers, partners or other individuals exercising similar authority with respect to such Person by virtue of ownership of voting rights or management or Contract or in any other manner. Notwithstanding the foregoing, for purposes hereof, neither the Company nor any Person controlled by the Company shall be deemed to be an Affiliate of any Shareholder or any Affiliate of a Shareholder, and no Shareholder nor any Affiliate thereof shall be deemed to be an Affiliate of any other Shareholder or any Affiliate thereof by virtue of its equity ownership in the Company.

1.2 “Articles” means the amended and restated articles of incorporation (*teikan*) of the Company, which articles as of immediately prior to the Closing shall be in a form attached hereto as Exhibit A.

1.3 “Big 4 Accounting Firm” means KPMG, PricewaterhouseCoopers, Deloitte & Touche or Ernst & Young.

1.4 “Board” means the board of directors (*torishimariyaku-kai*) of the Company.

1.5 “Board Additional Funding Determination Date” means each date on which (a) the Board determines that the Company requires Additional Funding and (b) the Board authorizes the Total Additional Funding Amount, in each case in accordance with Section 6.2(b).

1.6 “Business” means: (a) the business of performing clinical sequencing in Japan, organizing patient data for patients in Japan and building a real-world data business utilizing such Japanese patient data; serving as a sales agent within Japan on behalf of the Tempus Shareholder for real-world data of patients based outside Japan, as may be expanded from time to time in accordance with Section 7.13(e) and (b) such other business within Japan as mutually agreed by the Shareholders pursuant to this Agreement.

1.7 “Business Day” means a day on which commercial banks in both California, United States and Japan are open to conduct their regular banking business.

1.8 “CFIUS” means the Committee on Foreign Investment in the United States, along with any member agency thereof acting in such capacity.

1.9 “CFIUS Clearance” shall occur only when one of the following conditions has been satisfied: (a) the SBG Shareholder and the Tempus Shareholder shall have received written notice from CFIUS stating that CFIUS has concluded that the transactions contemplated hereby are not a “covered transaction” as that term is defined under the DPA, and therefore are not subject to review by CFIUS; (b) the SBG Shareholder and the Tempus Shareholder shall have received written notice from CFIUS stating that the assessment, review or investigation of the transactions contemplated hereby under the DPA has concluded and that CFIUS has determined that there are no unresolved national security concerns; (c) CFIUS shall have sent a report to the President of the United States (the “President”) requesting the President’s decision or determination with

regard to the transactions contemplated hereby and either (i) the period under the DPA during which the President may announce his decision to take action to suspend, prohibit or place any limitations on the transactions contemplated hereby has expired without any such action being threatened, announced or taken or (ii) the President shall have announced a decision not to take any action to suspend or prohibit the transactions contemplated hereby; or (d) the SBG Shareholder and the Tempus Shareholder shall have received written notice from CFIUS stating that CFIUS is not able to conclude action under the DPA with respect to the transactions contemplated hereby on the basis of the CFIUS Declaration and that the SBG Shareholder and the Tempus Shareholder may file a written notice, but CFIUS has not requested that the SBG Shareholder and the Tempus Shareholder file a written notice and has not initiated a unilateral CFIUS review of the transactions contemplated hereby under the DPA.

1.10 “Class A Stock” means non-voting Class A Stock of the Company (*A-shu-shurui-kabushiki*) as authorized by the Articles.

1.11 “Closing Regulatory Approvals” means the Regulatory Approvals described in Section 4.2(a).

1.12 “Common Stock” means Common Stock (*futsū kabushiki*) of the Company as authorized by the Articles.

1.13 “Companies Act” means the Companies Act of Japan (Act No. 86 of 2005 as amended) along with certain associated governmental ordinances.

1.14 “Company Interest” means, as of any applicable time, any and all issued and outstanding Company Shares, excluding any shares of Company Securities issued to employees of the Company pursuant to an Employee Incentive Plan.

1.15 “Company Securities” means shares of Common Stock, shares of Class A Stock, other new series or class of capital stock or other equity interests of the Company, including any securities or other instruments convertible into or exchangeable for, and options, warrants or other rights to acquire, any shares or other equity interests of the Company.

1.16 “Company Shares” means, as of any applicable time, any and all issued and outstanding shares of Common Stock, Class A Stock or other new series or class of capital stock of the Company on an as converted to Common Stock basis (without giving regard to whether they are actually convertible to Common Stock as of such applicable time).

1.17 “Contract” means any legally binding agreement, lease, license, contract, note, mortgage, indenture, arrangement or other similar obligation.

1.18 “Corporate Auditor” means a corporate auditor (*kansa-yaku*) of the Company with the powers and duties as specified in the Companies Act, the Articles and this Agreement.

1.19 “Data License Agreement” means the data license agreement, dated as of the Effective Date, by and between the Tempus Shareholder and the Company pursuant to which the Tempus Shareholder shall license certain de-identified data to the Company for use in connection with the Business.

1.20 “Director” means a director (*torishimari-yaku*) of the Company with the powers and duties as specified in the Companies Act, the Articles and this Agreement.

1.21 “DPA” means the Defense Production Act of 1950, as amended, including all implementing regulations thereof.

1.22 “Exempt Issuances” means any (a) Company Securities issued to the SBG Shareholder prior to the Closing Date, (b) Company Securities issued to an Initial Shareholder on the Closing Date, (c) Company Securities issued in connection with any strategic transaction authorized by the Board and (d) Company Securities to be issued to employees of the Company pursuant to an Employee Incentive Plan.

1.23 “Fair Market Value Determination Date” means the Board Additional Funding Determination Date, the In-Kind Contribution Determination Date or the Consolidation Option Notice Date, as applicable.

1.24 “Governmental Authority” means any domestic or foreign government, governmental authority, court, tribunal, agency or other regulatory, administrative or judicial agency, arbitral body, commission or organization and any subdivision, branch or department of any of the foregoing, including any securities exchange.

1.25 “IFRS” means International Financial Reporting Standards.

1.26 “Insolvency Event” means with respect to any Person, any of the following:

- (a) inability of the Person to pay its debts when due or the admission by such Person in writing of its inability to pay its debts as they fall due in the ordinary course of business;
- (b) a court of competent jurisdiction makes an order or a resolution is validly and effectively passed, for the bankruptcy, insolvency, winding up, dissolution or judicial management or administration (as the case may be) of such Person otherwise than in the course of reorganization or restructuring;
- (c) any attachment, sequestration, distress, execution or other legal process is levied, enforced or instituted against the assets of such Person and the same is not stayed, discharged, released or satisfied (as the case may be) within [***] days of such, levy or enforcement or institution (as the case may be);
- (d) a liquidator, insolvency practitioner, judicial manager, receiver, administrator, custodian or other similar officer has been appointed (or a petition for the appointment of such officer has been presented) in respect of any assets of such Person and the same is not stayed, discharged, released or satisfied (as the case may be) within [***] days of such appointment or presentation of petition (as the case may be);
- (e) such Person files a petition of bankruptcy or insolvency under applicable Law or a petition of bankruptcy or insolvency is admitted against the Person; or

(f) such Person convenes a meeting of its creditors or makes or proposes any arrangement or composition with or any assignment for the benefit of its creditors.

1.27 “Intellectual Property Rights” means all industrial or intellectual property rights under the Laws of any jurisdiction, including (a) patents, utility models, design rights and industrial design property rights; (b) copyrights (throughout this Agreement, including the rights under Articles 27 and 28 of the Copyright Act of Japan) and other rights associated with Works of Authorship and Databases; (c) rights with respect to Trade Secrets; (d) rights with respect to trademarks, service marks and trade dress, together with all goodwill associated therewith; (e) other proprietary rights in Technology; (f) rights in or relating to applications, registrations, renewals, extensions, combinations, divisions, continuations and reissues of, and applications for, any of the foregoing; and (g) all causes of action and rights to sue resulting from or arising out of the foregoing.

1.28 “IP License Agreement” means the intellectual property license agreement, dated as of the Effective Date, by and between the Tempus Shareholder and the Company pursuant to which the Tempus Shareholder shall license the Tempus Technology and Tempus trademarks and logos to the Company for use in connection with the Business.

1.29 “JGAAP” means generally accepted accounting principles of Japan.

1.30 “Law” means any statute, law, constitution, treaty, ordinance, code, rule, regulation, Orders, licenses, permits, approvals and any other binding requirement or determination, or any interpretation, policy or administrative instruction having the force of law of any of the foregoing, of any Governmental Authority that are applicable to the Person and relevant activity, including the Companies Act.

1.31 “Licensed Data” has the meaning set forth in the Data License Agreement.

1.32 “Lien” means (a) any mortgage, lien, pledge, charge, license, security interest or encumbrance of any kind, whether or not filed, recorded or otherwise perfected under applicable Law, including any conditional sale or other title retention agreement, any lease in the nature thereof, any option or other agreement to sell or give a security interest in and any filing of or agreement to give any financing statement under the Uniform Commercial Code (or equivalent statutes) of any jurisdiction or (b) any voting agreement, option, right of first offer, refusal or any transfer restriction in favor of any Person.

1.33 “Order” means any writ, judgment, decree, injunction or similar order of any Governmental Authority (in each such case whether preliminary or final).

1.34 “Person” means any individual, corporation (including not-for-profit), general or limited partnership, limited liability company, joint venture, estate, trust, association, organization, Governmental Authority or other entity of any kind or nature.

1.35 “Pro Rata Portion” means, with respect to any Shareholder, a fraction determined by dividing the number of Company Shares held by such Shareholder by the number of total issued and outstanding Company Shares, in each case on an as converted to Common Stock basis, as of the date of such calculation (without giving regard to whether they are actually convertible to Common Stock as of such applicable time).

1.36 “Regulatory Approvals” means any consents, authorizations, clearances and approvals required by applicable Law, including, for the avoidance of doubt, the Closing Regulatory Approvals.

1.37 “Representative” means, with respect to any Person, any director, principal, partner, manager, member (if such Person is a member-managed limited liability company or similar entity), employee (including any officer), consultant, investment banker, financial advisor, legal counsel, attorney-in-fact, accountant or other advisor, agent or other representative of such Person, in each case acting in their capacity as such.

1.38 “Representative Director” means a representative director (*daihyo-torishimari-yaku*) who is responsible for executing the business of the Company and who has such other powers and duties as specified in the Companies Act, the Articles and this Agreement.

1.39 “Restricted Territory” means Japan, South Korea, Thailand, Singapore, Malaysia, Indonesia, the Philippines, the United Arab Emirates, Saudi Arabia or any other territory where the Tempus Shareholder or any of its Affiliates, on the one hand, and the SBG Shareholder or any of its Affiliates, on the other hand, have mutually agreed to launch a joint venture or similar commercial relationship.

1.40 “SBG Brand License Agreement” means a brand license agreement in a form reasonably agreed by the SBG Shareholder, to be entered into by and between the SBG Shareholder (or its designated Affiliates), the Company and any other parties identified therein, having an effective date of the Closing Date [***].

1.41 “SBG Material Adverse Effect” means any change, event, claim, circumstance, matter or effect that, individually or in the aggregate with all other changes, events, claims, circumstances, matters and effects (collectively, “Effects”) that is, or would reasonably be expected to be or become, materially adverse to (a) the ability of the SBG Shareholder to perform any of its covenants or obligations under this Agreement or any other Transaction Document or to consummate the transactions contemplated hereby or thereby in accordance with the terms of this Agreement or the other Transaction Documents or (b) the assets, operations, performance, results of operations or prospects of the SBG Shareholder.

1.42 “SBG Services Agreement” means the services agreement, dated as of the Effective Date, by and between the SBG Shareholder (or its designated Affiliates) and the Company pursuant to which the SBG Shareholder (or its designated Affiliates) shall provide certain services to the Company in connection with the Business.

1.43 “SBG Subscription Agreement” means the share subscription agreement, by and between the SBG Shareholder and the Company pursuant to which the SBG Shareholder shall subscribe for shares of Common Stock in accordance with Section 6.1(a)(i), in the form attached as Exhibit C.

1.44 “Shareholders” or “Shareholder” means the Initial Shareholders and any other holder of Common Stock, Class A Stock or other new series or class of shares of the Company.

1.45 “Subsidiary” means, with respect to any Person, any other Person of which at least a majority of (a) the securities or ownership interests of such other Person having by their terms ordinary voting power to elect a majority of the board of directors or other Persons performing similar functions or (b) the equity or ownership interests of such other Person, in each case, is directly or indirectly owned or controlled by such first Person and/or by one or more of its Subsidiaries.

1.46 “Technology” has the meaning set forth in the IP License Agreement.

1.47 “Tempus Class A Stock Subscription Agreement” means the share subscription agreement, by and between the Tempus Shareholder and the Company pursuant to which the Tempus Shareholder shall subscribe for shares of Class A Stock in accordance with Section 6.1(a)(iii), in the form attached as Exhibit D-2.

1.48 “Tempus Common Stock Subscription Agreement” means the share subscription agreement, by and between the Tempus Shareholder and the Company pursuant to which the Tempus Shareholder shall subscribe for shares of Common Stock in accordance with Section 6.1(a)(ii), in the form attached as Exhibit D-1.

1.49 “Tempus Material Adverse Effect” means any Effect that is, or would reasonably be expected to be or become, materially adverse to (a) the ability of the Tempus Shareholder to perform any of its covenants or obligations under this Agreement or any other Transaction Document or to consummate the transactions contemplated hereby or thereby in accordance with the terms of this Agreement or the other Transaction Documents or (b) the assets (including intangible assets such as the Tempus Technology), operations, performance, results of operations or prospects of the Tempus Shareholder.

1.50 “Tempus Services Agreement” means the services agreement, dated as of the Effective Date, by and between the Tempus Shareholder and the Company pursuant to which the Tempus Shareholder shall provide certain services to the Company in connection with the Business.

1.51 “Tempus Technology” has the meaning set forth in the IP License Agreement.

1.52 “Transaction Documents” means this Agreement, the Tempus Services Agreement, the SBG Services Agreement, the IP License Agreement, the Data License Agreement, the Articles, the SBG Brand License Agreement, the SBG Subscription Agreement, the Tempus Common Stock Subscription Agreement, the Tempus Class A Stock Subscription Agreement, and all other agreements and certificates executed and delivered by or on behalf of the parties hereto in connection with this Agreement or any of the transactions contemplated hereby or thereby.

1.53 “Transfer” means to, directly or indirectly, sell, transfer, gift, assign, transfer any interest in trust, mortgage, alienate, hypothecate, pledge, encumber, grant a security interest in, or suffer to exist (whether by operation of Law or otherwise) any Lien on, any Company Securities or any right, title or interest therein or otherwise dispose of in any manner whatsoever voluntarily or involuntarily.

1.54 “US GAAP” means generally accepted accounting principles of the United States.

The following terms have the meanings set forth in the Sections set forth below:

<u>Definition</u>	<u>Section</u>
Additional Debt Financing	6.2(g)
Additional Funding	6.2(b)
Additional Funding Notice	6.2(c)
Additional Funding Shortfall Amount	6.2(e)
Additional Funding Shortfall Exercise Notice	6.2(f)
Additional Funding Shortfall Notice	6.2(e)
Additional In-Kind Contribution	6.2(j)
Agreement	Preamble
Arbitrator	14.4(b)
Business Plan	7.13(c)
CEO Resolution Period	7.12(b)
CFIUS Declaration	5.2(a)
CFIUS Notice	5.2(a)
Closing	4.1
Closing Cash Amount	3.1
Closing Date	4.1
Commercial Register	6.1(c)
Company	Preamble
Company Auditing Firm	7.14(c)
Confidential Information	14.8(a)
Consolidation Option	8.4
Consolidation Option Notice	8.4
Consolidation Option Notice Date	8.4
control	1.1
Controlled Person	1.1
Controlling Interest	8.4
Damages	14.2
Data Protection Laws	11.6
Data Support	9.5(a)
Data Support Business Opportunity	9.5(b)(i)
Data Support Business Opportunity ROFR	9.5(b)(iii)
Data Support Business Opportunity ROFR Exercise Notice	9.5(b)(iii)
Data Support Business Opportunity ROFR Notice	9.5(b)(i)
Data Support Business Opportunity ROFR Period	9.5(b)(iii)
Deadlock Matter	7.12(a)
Effective Date	Preamble
Effects	1.41
Employee Incentive Plan	7.16

<u>Definition</u>	<u>Section</u>
Exercise Notice	6.2(d)
Exercising Initial Shareholder	6.2(e)
Expert	7.12(c)
Fair Market Value	12.1
FEFTA Notification	4.2(a)(ii)
Fiscal Year	7.14(a)
Former Shareholder	14.8(c)
HIPAA	11.6
In-Kind Contribution Determination Date	6.2(j)
Indemnified Party	14.2
Indemnifying Party	14.2
Independent Appraiser	12.1
India JV	9.4
Initial Business Plan	7.13(a)
Initial Shareholder	Preamble
Joinder Agreement	14.22
License Fees	6.1(d)
Lock-in Period	8.1
Long Stop Date	13.2(b)
Long Stop Termination Effective Date	13.7
New Product Offering Updates	7.13(e)
New Product Offerings	7.13(e)
Outside JV	9.3
Outside JV Consultation Right	9.3
Outside JV Election	9.3
Outside JV Negotiation Period	9.3(a)(i)
Outside JV Notice	9.3(a)(i)
Outside JV ROFR	9.3
Outside JV ROFR Exercise Notice	9.3(b)(ii)
Outside JV ROFR Exercise Period	9.3(b)(ii)
Outside JV ROFR Notice	9.5(b)(i)
Outside JV ROFR Period	9.3(b)(ii)
Pre-closing Fees	13.7
President	1.9
ROFR Election Notice	8.2(c)
ROFR Securities	8.2(b)
SBG Class A Shareholder	Preamble
SBG Directors	7.2(b)
SBG Shareholder	Preamble
SBG Shareholder Class A Purchase Price	6.1(b)
SBG Shareholder Class A Shares	6.1(b)
SBG Shareholder Common Shares	6.1(a)(i)
SBG Shareholder Common Subscription Amount	6.1(a)(i)
SBG Shareholder Existing Shares	3.1

Definition	Section
Senior Executive Resolution Period	7.12(a)
Shareholder Register	6.1(c)
Shareholder Reserved Matters	7.11(a)
SIAC	14.4(a)
SPV	8.5
Tempus Directors	7.2(b)
Tempus Shareholder	Preamble
Tempus Shareholder Class A Shares	6.1(a)(iii)
Tempus Shareholder Class A Subscription Amount	6.1(a)(iii)
Tempus Shareholder Common Shares	6.1(a)(ii)
Tempus Shareholder Common Subscription Amount	6.1(a)(ii)
Third-Party Data Support Agreement	9.5(b)(i)
Third-Party Outside JV Term Sheet	9.3(b)(i)
Total Additional Funding Amount	6.2(b)
Transfer Notice	8.2(b)
Transferring Shareholder	8.2(b)
Valuation Opinion	4.3(e)

2. Purpose of Joint Venture

2.1 The Shareholders hereby associate themselves in a joint venture relationship which shall have as its principal purpose the establishment, development and operation of the Business.

3. Joint Venture Entity

3.1 Joint Venture Entity. The SBG Shareholder and the Tempus Shareholder agree that the joint venture contemplated by this Agreement shall be carried out by the Company, a Japanese *kabushiki kaisha* incorporated prior to the Effective Date by the SBG Shareholder. As of immediately prior to the Closing, the Company's corporate name shall be "株式会社SB TEMPUS" in Japanese and "SB TEMPUS Corp." in English (which such name may be used by the Company subject to the terms of Section 14.10) and the Company's articles of incorporation shall be the Articles. As of immediately prior to the Closing, the SBG Shareholder will hold [***] shares of Common Stock (the "SBG Shareholder Existing Shares") and the Company will hold cash and deposits in an amount equal to ¥[***] (the "Closing Cash Amount") and will have no other assets or liabilities. The Company shall continue in existence in perpetuity, until dissolved, liquidated and wound up in accordance with this Agreement, the Articles and applicable Law.

4. Closing; Conditions to Close

4.1 Closing. Unless otherwise mutually agreed in writing between the SBG Shareholder and the Tempus Shareholder, the consummation of the transactions described in Section 6.1 (the "Closing") shall take place on the fifth (5th) Business Day after the date that each of the conditions set forth in Section 4.2 (other than conditions that by their nature are to be satisfied at the Closing) has been satisfied or, to the extent permitted by applicable Law, waived in writing by the applicable Initial Shareholders (such date, the "Closing Date").

4.2 Conditions to Closing of Each of the Initial Shareholders. The obligations of each of the Initial Shareholders to consummate the Closing shall be subject to the satisfaction or, to the extent permitted by applicable Law, mutual written waiver by each Initial Shareholder, at or prior to the Closing, of each of the following conditions:

(a) Closing Regulatory Approvals.

(i) The CFIUS Clearance shall have been obtained;

(ii) the Tempus Shareholder shall have filed a prior notification of an inward direct investment under the Foreign Exchange and Foreign Trade Act of Japan (Act No. 228 of 1949 as amended) (the "FEFTA Notification") and the applicable waiting period shall have elapsed without objection from any Governmental Authority; and

(iii) all other approvals by a Governmental Authority which are required with respect to the transactions contemplated by Section 6.1 shall have been obtained.

(b) No Legal Restraints. No Governmental Authority shall have enacted, issued, promulgated, enforced or entered any Law that is in effect and that has the effect of making this Agreement or any other transaction contemplated by this Agreement illegal or otherwise prohibits or otherwise impedes or materially restrains the consummation of the any of the transactions contemplated by this Agreement or any other Transaction Document.

(c) Mechanics for Required Payments under IP License Agreement and Data License Agreement. At least [***] Days prior to the Closing Date, the Company shall have provided all required signatures and approvals needed for it to initiate, immediately following the Closing Date but in no event longer than [***] Days following the Closing Date, the License Fees in compliance with the requirements of this Agreement, the IP License Agreement and the Data License Agreement.

4.3 Conditions to Closing of the SBG Shareholder. The obligations of the SBG Shareholder to consummate the Closing shall be subject to the satisfaction or, to the extent permitted by applicable Law, a written waiver by the SBG Shareholder, at or prior to the Closing, of each of the following conditions:

(a) Tempus Shareholder Representations and Warranties. Each of the representations and warranties of the Tempus Shareholder contained in Section 11 shall be true and correct in all respects on and as of the Effective Date and the Closing Date (or, if made as a specified date, as of such date).

(b) No Tempus Material Adverse Effect. From the Effective Date, there shall not have occurred a Tempus Material Adverse Effect, nor shall any event or events have occurred that, individually or in the aggregate, with or without the lapse of time, could reasonably be expected to result in a Tempus Material Adverse Effect.

(c) Other Transaction Documents. Each of the SBG Brand License Agreement, the Tempus Common Stock Subscription Agreement and the Tempus Class A Stock Subscription Agreement shall have been duly executed by the parties thereto.

(d) Initial Business Plan. The Initial Business Plan shall have been finalized, as contemplated by Section 7.13(a).

(e) Valuation of Tempus Technology. The SBG Shareholder shall have received an opinion (the “Valuation Opinion”) to its reasonable satisfaction issued by KPMG with respect to the valuation of the Tempus Technology; provided that if the SBG Shareholder has not received the Valuation Opinion on or before [***], then such condition shall not be a condition to Closing.

4.4 Conditions to Closing of the Tempus Shareholder. The obligations of the Tempus Shareholder to consummate the Closing shall be subject to the satisfaction or, to the extent permitted by applicable Law, a written waiver by the Tempus Shareholder, at or prior to the Closing, of each of the following conditions:

(a) SBG Shareholder Representations and Warranties. Each of the representations and warranties of the SBG Shareholder contained in Section 10 shall be true and correct in all respects on and as of the Effective Date and on the Closing Date (or, if made as of a specified date, as of such date).

(b) No SBG Material Adverse Effect. From the Effective Date, there shall not have occurred an SBG Material Adverse Effect, nor shall any event or events have occurred that, individually or in the aggregate, with or without the lapse of time, could reasonably be expected to result in an SBG Material Adverse Effect.

(c) Other Transaction Documents. The SBG Subscription Agreement shall have been duly executed by the parties thereto.

(d) Initial Business Plan. The Initial Business Plan shall have been finalized, as contemplated by Section 7.13(a).

5. Reasonable Best Efforts to Complete; Closing Regulatory Approvals

5.1 Subject to the terms and conditions of this Agreement:

(a) Each of the Initial Shareholders shall use its reasonable best efforts to (i) take promptly, or cause to be taken promptly, all actions necessary, proper or advisable under applicable Laws to consummate and make effective the transactions contemplated hereby, (ii) cause all conditions to Closing set forth in Section 4.2, Section 4.3 and Section 4.4 to occur, (iii) send all necessary notices and obtain all necessary waivers, consents, approvals and other documents required to be delivered hereunder, (iv) effect all necessary registrations and filings and (v) remove any injunctions or other impediments or delays, legal or otherwise, in each case, in order to consummate and make effective the transactions contemplated by this Agreement for the purpose of securing to the Initial Shareholders the benefits contemplated by this Agreement.

(b) In furtherance and not in limitation of the terms of Section 5.1(a), the Initial Shareholders shall cooperate fully with each other and act in good faith in connection with the prompt negotiation, finalization and due execution by the Closing of the SBG Brand License Agreement.

(c) In furtherance and not in limitation of the terms of Section 5.1(a), each Initial Shareholder shall, as promptly as possible, use its reasonable best efforts to obtain, or cause to be obtained, all Closing Regulatory Approvals from all Governmental Authorities to the extent any are required at any time with respect to the transactions contemplated by Section 6.1, it being understood and agreed that the Tempus Shareholder shall prepare and file promptly, but in any event not later than [***] Days after the Effective Date, the FEFTA Notification. Each Initial Shareholder shall cooperate fully with the other Initial Shareholder and its Affiliates in promptly seeking to obtain all such Closing Regulatory Approvals. No Initial Shareholder shall willfully take any action that can reasonably be expected to have the effect of delaying, impairing or impeding the receipt of any such Closing Regulatory Approvals.

(d) To the extent required to comply with the terms of Sections 5.1(a) and 5.1(c), all analyses, appearances, meetings, discussions, presentations, memoranda, briefs, filings, arguments and proposals made by or on behalf of any Initial Shareholder before any Governmental Authority or the staff or regulators of any Governmental Authority, in connection with any Closing Regulatory Approval (but, for the avoidance of doubt, not including any disclosure which is not permitted by applicable Law or any disclosure containing Confidential Information) shall be disclosed to the other Initial Shareholder in advance of any filing, submission or attendance, it being the intent that each Initial Shareholder will consult and cooperate with one another, and consider in good faith the views of one another, in connection with any such analyses, appearances, meetings, discussions, presentations, memoranda, briefs, filings, arguments and proposals. To the extent required to comply with the terms of Sections 5.1(a) and 5.1(c), each Initial Shareholder shall (subject to applicable Law or any requirement of non-disclosure given by the applicable Governmental Authority) give notice to the other Initial Shareholder with respect to any meeting, discussion, appearance or contact with any Governmental Authority or the staff or regulators of any Governmental Authority with respect to any Closing Regulatory Approval, with such notice being sufficient to provide the other Initial Shareholder with the opportunity to attend and participate in such meeting, discussion, appearance or Contract.

(e) Notwithstanding the foregoing or anything else in this Agreement, in no event shall any Initial Shareholder or any of its Affiliates be required to propose, commit or agree (through order, consent decree, settlement or otherwise) to (i) license, sell, divest, hold separate or otherwise dispose of, directly or indirectly, any of such Initial Shareholder's own assets, or any operations, divisions, subsidiaries, specific assets or categories of assets, specific products or categories of products, product lines or businesses of such Initial Shareholder or its Affiliates, (ii) terminate any material existing relationships and contractual rights and obligations of such Initial Shareholder or its Affiliates or (iii) take any actions or make any behavioral commitments that may limit or modify such Initial Shareholder's or its Affiliates' rights of ownership in, or ability to conduct the business of, any of its operations, divisions, businesses, product lines, specific products, categories of products, customers, specific assets or categories of assets. In addition, each Initial Shareholder shall use its reasonable best efforts to defend through litigation on the merits of any claim asserted in court by any party against such Initial Shareholder or its Affiliates in order to avoid entry of, or to have vacated or terminated, any Order by any Governmental Authority (whether temporary, preliminary or permanent) that would prevent the consummation of the Closing or payment of the amounts contemplated by Section 6.1.

5.2 CFIUS.

(a) Notwithstanding the obligations set forth in Section 5.1 or anything else in this Agreement, the SBG Shareholder and the Tempus Shareholder (and their respective Affiliates, if applicable) shall cooperate and undertake their respective reasonable best efforts to prepare and submit promptly, but in any event not later than [***] Days after the Effective Date (or such other date as may be mutually agreed between the Initial Shareholders), a declaration to CFIUS (“CFIUS Declaration”) pursuant to the DPA with respect to the Initial Shareholders’ participation in the transactions contemplated under this Agreement. If CFIUS requests, pursuant to the DPA, that the SBG Shareholder and the Tempus Shareholder file a written notice regarding the transactions contemplated under this Agreement, or if the CFIUS Clearance has not been obtained at the conclusion of the CFIUS Declaration’s assessment period, the SBG Shareholder and the Tempus Shareholder agree to prepare and submit a draft joint voluntary notice (“CFIUS Notice”) within [***] Days of the conclusion of the CFIUS Declaration’s assessment period. Each Initial Shareholder shall promptly respond to any CFIUS request for information and/or documents with respect to such draft notice and/or the transactions contemplated thereby. As promptly as practicable following the receipt of notification from CFIUS that it has concluded its review of the draft notice, the SBG Shareholder and the Tempus Shareholder will jointly file with CFIUS a voluntary notice under the DPA.

(b) Notwithstanding the obligations set forth in Section 5.1 or anything else in this Agreement, each of the SBG Shareholder and the Tempus Shareholder (and their respective Affiliates, if applicable) shall cooperate and undertake its reasonable best efforts to (i) as promptly as practicable respond to any CFIUS request for information and/or documents with respect to such filings and/or the transactions contemplated hereby, and respond to CFIUS question sets within the prescribed period for response, or within such longer period of time permitted by CFIUS; (ii) permit each other to review any material communication by the other (subject to appropriate redactions to maintain the confidentiality of business information as mutually agreed to by the parties), and consult with the other in advance of any planned meeting or conference, with CFIUS, and, to the extent permitted by CFIUS, grant each other the opportunity to attend and participate in any such planned meeting or conference; provided that neither the SBG Shareholder nor the Tempus Shareholder shall be obligated to disclose to the other any communication to CFIUS that either the SBG Shareholder or the Tempus Shareholder considers to be proprietary or confidential; and (iii) keep each other timely apprised of the status and content of any material communications with, and any inquiries or requests for additional information or documentary material from, CFIUS, in the case of each of clauses (i) through (iii), to the extent permitted by applicable Law and subject to customary confidentiality and all applicable privileges (including the attorney-client privilege).

(c) Notwithstanding the obligations set forth in Section 5.1 or anything else in this Agreement, the SBG Shareholder and the Tempus Shareholder shall each use its reasonable best efforts to take all action necessary to obtain the CFIUS Clearance as soon as practicable, including using its reasonable best efforts to take all such action as reasonably may be necessary to resolve

objections (if any) that CFIUS may assert with respect to the transactions contemplated hereby; provided that each of the SBG Shareholder and the Tempus Shareholder (and their respective Affiliates, if applicable) shall not be required to accept any term or restriction that, in its reasonable discretion and only as such a restriction affects the objecting party's interests: (A) materially restricts the SBG Shareholder or the Tempus Shareholder, as applicable, from directing, overseeing or causing the direction of the management and operations of the Company, including any form of proxy agreement, voting trust agreement or other similar governance structure; (B) impairs the collaboration and exchange of information among the SBG Shareholder, the Tempus Shareholder and the Company as contemplated by this Agreement, any of the other Transaction Documents or any other Contract between the SBG Shareholder and the Tempus Shareholder; or (C) materially impairs the business operations of the Tempus Shareholder or its Affiliates that are unrelated to the Company and the Transaction Documents. If during any CFIUS review or investigation period, CFIUS offers the SBG Shareholder and the Tempus Shareholder an opportunity to withdraw and resubmit the relevant CFIUS filing, each of the SBG Shareholder and the Tempus Shareholder (and their respective Affiliates, if applicable) agree to withdraw and resubmit upon CFIUS' first such offer, and, for any subsequent such offers, each of the SBG Shareholder and the Tempus Shareholder (and their respective Affiliates, if applicable) shall coordinate with the other and submit such withdrawal and refiling only if mutually agreed upon by both parties.

5.3 Preparation for Transfer of, and Access to, Licensed Data. Promptly following the Effective Date, each of the SBG Shareholder and the Tempus Shareholder (and their respective Affiliates, if applicable) shall cooperate and use its reasonable best efforts to take all actions necessary to prepare for the transfer of the Licensed Data, and make such Licensed Data available, to the Company pursuant to the Data License Agreement. In furtherance and not in limitation of the foregoing, the Tempus Shareholder shall (a) permit the SBG Shareholder to review and consult with the Tempus Shareholder regarding the standard data filters available on the Tempus platform, (b) provide the SBG Shareholder with a proposal of inclusion criteria for the initial batch of Licensed Data to be licensed to the Company pursuant to the Data License Agreement and (c) cooperate with SBG Shareholder to agree upon and finalize such inclusion criteria prior to the Closing Date.

6. Funding of the Company

6.1 Initial Funding.

(a) Subscription for Company Securities. The Company shall, as of the Closing Date, have authorized capital stock consisting of [***] authorized shares of Common Stock and [***] authorized shares of Class A Stock with the rights and restrictions set forth in the Companies Act, the Articles and this Agreement. The Company's initial equity shall be funded as follows:

(i) SBG Shareholder Subscription for Common Stock. On the terms and subject to the conditions of this Agreement, at the Closing, the Company shall offer to the SBG Shareholder, and the SBG Shareholder shall subscribe for, [***] shares of Common Stock (the "SBG Shareholder Common Shares"), for an aggregate subscription amount of ¥14,922,000,000 in cash (the "SBG Shareholder Common Subscription Amount"), which amount represents a subscription amount of ¥14,925,000,000 reduced by the Closing Cash Amount, which

together with the SBG Shareholder Existing Shares, will represent 50% of all of the issued and outstanding shares of Common Stock as of the Closing and 49.5% of Company Interest as of the Closing. At the Closing, the SBG Shareholder shall deliver the SBG Shareholder Common Subscription Amount to the Company by wire transfer of immediately available funds, and the Company shall issue the SBG Shareholder Common Shares to the SBG Shareholder.

(ii) Tempus Shareholder Subscription for Common Stock. On the terms and subject to the conditions of this Agreement, at the Closing and subject to the conditions set forth in Section 4.2(c), the Company shall offer to the Tempus Shareholder, and the Tempus Shareholder shall subscribe for [***] shares of Common Stock (the "Tempus Shareholder Common Shares"), for an aggregate subscription amount of ¥14,925,000,000 in cash (the "Tempus Shareholder Common Subscription Amount"), representing 50% of all of the issued and outstanding shares of Common Stock as of the Closing and 49.5% of Company Interest as of the Closing. At the Closing, the Tempus Shareholder shall deliver the Tempus Shareholder Common Subscription Amount to the Company by wire transfer of immediately available funds and the Company shall issue the Tempus Shareholder Common Shares to the Tempus Shareholder.

(iii) Tempus Shareholder Subscription for Class A Stock. On the terms and subject to the conditions of this Agreement, at the Closing, the Company shall offer to the Tempus Shareholder, and the Tempus Shareholder shall subscribe for [***] shares of Class A Stock (the "Tempus Shareholder Class A Shares"), for an aggregate subscription amount of ¥150,000,000 in cash (the "Tempus Shareholder Class A Subscription Amount"), representing 100% of all of the issued and outstanding shares of Class A Stock as of the Closing and 1% of Company Interest as of the Closing (in each case until the effectiveness of the sale and purchase of SBG Shareholder Class A Shares in accordance with Section 6.1(b)). At the Closing, the Tempus Shareholder shall deliver the Tempus Shareholder Class A Subscription Amount to the Company by wire transfer of immediately available funds and the Company shall issue the Tempus Shareholder Class A Shares to the Tempus Shareholder.

(b) Transfer of Class A Stock to SBG Preferred Shareholder. At the Closing and immediately after the issuance of the Tempus Shareholder Class A Shares to the Tempus Shareholder in accordance with Section 6.1(a)(iii), on the terms and subject to the conditions of this Agreement and notwithstanding Section 8.1, the Tempus Shareholder shall sell to the SBG Class A Shareholder, and the SBG Class A Shareholder shall purchase and acquire from the Tempus Shareholder, [***] shares of Class A Stock (the "SBG Shareholder Class A Shares"), for an aggregate purchase price of ¥75,000,000 in cash (the "SBG Shareholder Class A Purchase Price"), representing 50% of all the issued and outstanding shares of Class A Stock as of the Closing and 0.5% of Company Interest as of the Closing. At the Closing and immediately after the issuance of Class A Stock to the Tempus Shareholder as described in Section 6.1(a)(iii), the SBG Class A Shareholder shall deliver the SBG Shareholder Class A Purchase Price to the Tempus Shareholder by wire transfer of immediately available funds and the SBG Shareholder, the SBG Class A Shareholder, the Tempus Shareholder and the Company shall take all actions to effectuate and perfect the transfer of the SBG Shareholder Class A Shares to the SBG Class A Shareholder.

(c) Update to Registers. Promptly after (i) the subscription for shares of Company Securities by the SBG Shareholder and the Tempus Shareholder as set forth in Section 6.1(a) and (ii) the transfer of the SBG Shareholder Class A Shares from the Tempus Shareholder to the SBG Class A Shareholder as set forth in this Section 6.1(c), the Company shall (x) reflect such subscription and transfer of such shares of the Company Securities in the shareholder register of the Company (the “Shareholder Register”) and (ii) amend the registration of the commercial register of the Company (the “Commercial Register”) to reflect such subscription.

(d) Confirmation Regarding Compliance with Payment Timing of License Fees. At least [***] Days prior to the Closing Date, the SBG Shareholder shall deliver to the Tempus Shareholder written confirmation in the form attached hereto as Exhibit D, confirming the expected timing for payments to be made by the SBG Shareholder pursuant to this Agreement and for subsequent payments to be made by the Company pursuant to Section 3.1 of the IP License Agreement and Section 6.b. of the Data License Agreement (collectively, the “License Fees”) in compliance with the requirements of this Agreement, the IP License Agreement and the Data License Agreement.

6.2 Preemptive Rights; Additional Funding.

(a) Each Initial Shareholder shall have the right (but not the obligation) to (i) subscribe for any or all of its Pro Rata Portion of any proposed issuance by the Company of any Company Securities, other than for Exempt Issuances and (ii) participate with respect to any or all of its Pro Rata Portion in any debt financing raised by the Company. Unless otherwise agreed by both the Initial Shareholders, each Initial Shareholder may allocate any portion of its preemptive rights set forth in this Section 6.2 amongst itself and its Affiliates, subject to such Affiliates becoming a party to this Agreement and that such Initial Shareholder shall remain responsible for the performance of its Affiliate’s obligations as a Shareholder hereunder. Failure by an Initial Shareholder to exercise its preemptive rights with respect to a particular issuance of Company Securities or debt financing shall not constitute a waiver of such Initial Shareholder’s right to exercise its preemptive rights for subsequent issuances or debt financings.

(b) If, following the Closing and the initial funding pursuant to Section 6.1, the Board (i) determines that the Company requires additional funding to execute the Business Plan then in effect (“Additional Funding”) and (ii) authorizes the amount thereof, such amount not to exceed the shortfall amount reasonably required to so execute such Business Plan (the “Total Additional Funding Amount”), then the Company shall, from time to time, issue to the Initial Shareholders Additional Funding Notices promptly following the Board’s determination, instruction and authorization. As part of any such Board determination, instruction and authorization, the Board may determine that such Additional Funding (or any portion thereof) may be funded by way of in-kind contribution; provided that whether any Initial Shareholder may actually so fund by way of an in-kind contribution will be a Shareholder Reserved Matter subject to Section 7.11; provided, further, that any such in-kind contribution shall be governed by the terms of Section 6.2(j). The Board shall in good faith determine the valuation of the Company as of the Board Additional Funding Determination Date based on which the Additional Funding will be raised; provided that in the event the Board fails to so determine within [***] Days, the valuation of the Company for purposes of the Additional Funding shall be the Fair Market Value and the costs and expenses of determining such Fair Market Value shall be borne by the Company.

(c) Each “Additional Funding Notice” shall specify, for each Initial Shareholder:

(i) the purpose for which such Additional Funding Notice is being issued;

(ii) (A) the Total Additional Funding Amount requested from all Initial Shareholders in the aggregate and from each Initial Shareholder respectively (which in all cases shall be based on each Initial Shareholder’s Pro Rata Portion of the Total Additional Funding Amount) and (B) the amount and class of Company Securities to be issued to each Initial Shareholder assuming receipt of the Total Additional Funding Amount (provided that unless otherwise approved by the Board and agreed by the Initial Shareholder receiving such Company Securities, each Initial Shareholder shall receive, in respect of its Additional Funding, Company Securities of the same class as the Company Securities held by such Initial Shareholder);

(iii) whether such Additional Funding (or any portion thereof) may be funded by way of in-kind contribution, subject to Section 6.2(j);

(iv) the bank account to which such Additional Funding should be paid and other information and instructions necessary to effect the applicable payment to such bank account (it being understood and agreed that such information and instructions may be provided separately for security purposes so long as such information and instructions are provided substantially concurrently with the Additional Funding Notice); and

(v) the date by which such Additional Funding is to be made, which in no event may be earlier than the [***] Day following delivery of such Additional Funding Notice.

(d) Each Initial Shareholder may elect to fund any or all of its Pro Rata Portion of the Total Additional Funding Amount specified in the Additional Funding Notice by delivering a written notice to the Company (an “Exercise Notice”), setting out (i) the amount of Additional Funding to be funded by such Initial Shareholder, (ii) the applicable number of Company Securities to be issued to such Initial Shareholder and (iii) subject to Section 6.2(j), whether such Initial Shareholder desires to fund such Additional Funding by way of in-kind contribution (if permitted by the applicable Additional Funding Notice). Such Exercise Notice shall constitute exercise by such Initial Shareholder of its rights under Section 6.2(a) and a binding agreement of such Initial Shareholder to fund the amount of Additional Funding specified in the Exercise Notice. If any Initial Shareholder shall not have delivered an Exercise Notice to the Company within [***] Days following receipt of the Additional Funding Notice, the Company shall deliver a duplicate copy of its Additional Funding Notice to such Initial Shareholder, and such Initial Shareholder shall, within [***] days following receipt of such duplicate copy, deliver an Exercise Notice to the Company or notify the Company in writing of its intent not to fund its Pro Rata Portion of such Total Additional Funding Amount. If, at the termination of such [***]-day period, such Initial Shareholder shall not have delivered a notice to the Company in accordance with the preceding sentence, then such Initial Shareholder shall be deemed to have waived all its rights under Section 6.2(a) with respect to its preemptive rights for such particular issuance of Company Securities or debt financing.

(e) In the event that one of the Initial Shareholders affirmatively declines or is deemed to have waived its rights to fund its Pro Rata Portion of the Total Additional Funding Amount specified in the Additional Funding Notice in full, the Company shall give the option to the other Initial Shareholder that has delivered an Exercise Notice and has subscribed for its entitled Company Securities in full (the “Exercising Initial Shareholder”) by giving written notice promptly upon the expiration of such [***] Day period (the “Additional Funding Shortfall Notice”) to fund such unfulfilled portion of the Total Additional Funding Amount (the “Additional Funding Shortfall Amount”). The Additional Funding Shortfall Amount may be fulfilled by the Exercising Initial Shareholder, in its sole discretion, by (i) subscribing for the applicable number of Company Securities set forth in the applicable Additional Funding Notice, (ii) making a shareholder loan on commercially reasonable and arms’ length terms or (iii) causing the Company to obtain a third-party debt financing on commercially reasonable and arms’ length terms; provided that the option of subscribing for additional Company Securities pursuant to the preceding clause (i) shall be capped at a cumulative aggregate amount (across all Additional Fundings approved by the Board) of \$[***] (\$[***] funded by each Initial Shareholder as an Exercising Initial Shareholder) and shall not be available to either Initial Shareholder for any amount above such cap. To clarify, once each Initial Shareholder has funded \$[***] in Additional Fundings (for an aggregate Additional Funding of \$[***]) pursuant to the preceding clause (i), all Additional Funding must be in the form of debt pursuant to clauses (ii) or (iii) in the preceding sentence.

(f) Such Exercising Initial Shareholder shall have [***] Days following receipt of the Additional Funding Shortfall Notice, to deliver a written notice to the Company setting out (i) the portion of the Additional Funding Shortfall Amount to be funded in accordance with Section 6.2(e)(i), Section 6.2(e)(ii) or Section 6.2(e)(iii), as applicable, (ii) the number of Company Securities to be issued to such Exercising Initial Shareholder (if such Additional Funding Shortfall Amount is to be funded in accordance with Section 6.2(e)(i)) and (iii) subject to Section 6.2(j), whether such Exercising Initial Shareholder desires to fund such Additional Funding (or any portion thereof) by way of in-kind contribution (if permitted by the applicable Additional Funding Notice) (the “Additional Funding Shortfall Exercise Notice”). If, at the termination of such [***] Day-period, any Initial Shareholder shall not have delivered an Additional Funding Shortfall Exercise Notice to the Company, such Initial Shareholder shall be deemed to have waived all of its rights under Section 6.2(e) to fund or cause the funding, as applicable, of the Additional Funding Shortfall Amount.

(g) In the event the Exercising Initial Shareholder elects to fund (or cause to be funded) a portion of the Additional Funding Shortfall Amount pursuant to Section 6.2(e)(ii) or Section 6.2(e)(iii) (each, an “Additional Debt Financing”), each of the Initial Shareholders and the Company shall use its reasonable best efforts to take, or cause to be taken, all actions, and to do, or cause to be done, all things necessary, proper or advisable to arrange, consummate and obtain such Additional Debt Financing on commercially reasonable terms as promptly as practicable at the Company’s cost and expense, including (x) to cause any nominee Directors to approve the applicable Additional Debt Financing in accordance with Section 6.2(e) and (y) in the case of any third-party financing, to provide such cooperation as may be reasonably requested by any prospective third-party lender (provided that in no event shall any of the Initial Shareholders or the Company be required to provide or cause to be provided such assistance that would, in such party’s reasonable discretion, (A) unreasonably interfere with its ongoing business operations or (B) conflict with, or result in any violation or breach of, any applicable Laws, any organizational documents of such party or any Contract or obligations of confidentiality binding on such party and not created in contemplation hereof), including:

(i) causing management teams of the Company, with appropriate seniority and expertise, at reasonable times and upon reasonable advance notice, to participate in a reasonable number of meetings, conference calls, due diligence sessions and similar presentations with any prospective third-party lenders or investors and rating agencies (any or all of the foregoing which may be virtual);

(ii) reasonably assisting with the preparation of customary rating agency presentations, bank information memoranda, customary authorization letters and other customary marketing and syndication materials (which may only be distributed to a third party to the extent permitted by a confidentiality agreement entered into between the Company and such third party) reasonably and customarily required and reasonably requested by the prospective third-party lenders in connection with such third-party financing, in each case solely with respect to information relating to the Company's business;

(iii) furnishing the prospective third-party lenders, with all documentation and other information required by regulatory authorities under the applicable "know your customer", beneficial ownership and anti-money laundering rules and regulations that has been reasonably requested by the prospective third-party lenders in writing;

(iv) reasonably assisting with the negotiation, preparation and execution of any certificate of designations, credit agreement, guarantee, pledge and security documents or other definitive financing and investment documents contemplated by the third-party financing, and any certificates (including a customary solvency certificate) and schedules related thereto and other agreements, documents or certificates relating to the third-party financing, any certificates and schedules related thereto, and otherwise reasonably assist in facilitating the pledging of collateral or otherwise granting Liens contemplated by the third-party financing, as may be reasonably requested by the prospective third-party lenders in writing; provided, however, that neither Initial Shareholder will be obligated to guarantee any indebtedness of the Company nor pledge or encumber any assets of it or any of its Affiliates to support the Company's indebtedness; and

(v) providing the prospective third-party lenders with financial information derived from the historical books and records of the Company and its Subsidiaries and other pertinent information relating to the Company and its Subsidiaries reasonably requested by the prospective third-party lenders as is reasonably necessary for the completion of such third-party financing.

(h) The Company shall allot and issue to each Initial Shareholder delivering an Exercise Notice (and Additional Funding Shortfall Exercise Notice, if applicable) pursuant to Section 6.2(f), and such Initial Shareholder shall subscribe for, at the price and on the terms specified in the Additional Funding Notice, the number of Company Securities specified in such Initial Shareholder's Exercise Notice (and Additional Funding Shortfall Exercise Notice, if applicable).

(i) For the avoidance of doubt and notwithstanding anything in this Agreement to the contrary, following the Closing and the initial funding pursuant to Section 6.1, no Shareholder shall be required to make any capital contribution or provide any Additional Funding, in cash or otherwise, to the Company or to provide any loan, loan guaranty or other financial assistance or support on behalf of the Company.

(j) Unless approved by the Board in accordance with Section 6.2(b) and subject to Section 7.11, any and all Additional Funding and any funding thereof by the Initial Shareholders as described in this Section 6.2 shall be made on a cash basis. Without limiting the generality of the foregoing, if an Initial Shareholder desires to fund any or all of the Additional Funding it is entitled to fund by way of in-kind contribution (“Additional In-Kind Contribution”) by indicating as such in the Exercise Notice or the Additional Funding Shortfall Exercise Notice (the date on which such written notice is delivered, the “In-Kind Contribution Determination Date”) and the Initial Shareholder not making the Additional In-Kind Contribution, in its sole and absolute discretion, approves the Additional In-Kind Contribution pursuant to Section 7.11, then the Initial Shareholder desiring to make such Additional In-Kind Contribution shall bear the burden, cost and expense of establishing the Fair Market Value of such Additional In-Kind Contribution, and the other Initial Shareholder shall have the right to approve such Fair Market Value (such approval not to be unreasonably withheld). The Initial Shareholders and the Company shall comply with the Companies Act to conduct any Additional In-Kind Contributions.

(k) For the avoidance of doubt, the rights and obligations of the Initial Shareholders set forth in this Section 6.2 shall apply to their respective permitted Transferees pursuant to the terms of this Agreement based on such permitted Transferees’ respective Pro Rata Portions.

7. Governance of the Company

7.1 Operation of the Company. Each Shareholder agrees to do and perform such acts and things, as may be reasonably necessary or desirable for purposes of ensuring that the Company shall be operated in accordance with the terms of this Agreement and the other Transaction Documents, including to cause the Company to hold a Shareholders’ meeting (including a meeting of class Shareholders, if applicable) or a Board meeting in accordance with applicable Law, the Articles and this Agreement, and to vote, or cause to be voted, all Company Securities owned by it, or over which such Shareholder has voting control, and to cause its nominee Directors to approve matters at meetings of the Board, from time to time and at all times, in whatever manner as shall be necessary to effect the terms hereof. Unless authorized to do so by the Board, or as mutually agreed by the Initial Shareholders in writing, no Shareholder shall have any power or authority to bind or obligate the Company in any way or any authority to act for the Company or on its behalf.

7.2 Board of Directors

(a) The Board shall have the powers and authority set forth in the Articles, as provided under applicable Law and as expressly set forth in this Agreement, subject to the limitations set forth in this Agreement. Except for the matters reserved for the approval of the Shareholders under the Articles, applicable Law or Section 7.11, the Board shall have the exclusive and complete authority, power and discretion to manage and control the business and affairs of the Company, subject to the right of the Board to delegate such power and authority to officers or others responsible for day-to-day operations of the Company to the extent permitted by applicable Law.

(b) The Board shall consist of [***] Directors, which subject to Section 7.2(c), [***] of whom shall be nominated by the SBG Shareholder [***] (collectively, the “SBG Directors”), and [***] of whom shall be nominated by the Tempus Shareholder, [***] (collectively, the “Tempus Directors”). For the [***] years following the Closing Date, the Chairperson of the Board shall be nominated by [***] and the Vice-Chairperson of the Board shall be nominated by [***]. For the [***] years thereafter, the Chairperson of the Board shall be nominated by [***] and the Vice-Chairperson shall be nominated by [***]. Each of the Chairperson and the Vice-Chairperson shall only have one vote as a Director at the time of any vote and shall not have any additional tie-breaking vote. Each Shareholder shall take any necessary actions pursuant to Section 7.1 in order to ensure that the composition of the Board is as set forth in this Section 7.2.

(c) Notwithstanding Section 7.2(b):

(i) if an Initial Shareholder owns at least [***] of Company Interest, then such Initial Shareholder shall have the right to nominate [***] Directors; provided that [***];

(ii) if an Initial Shareholder owns less than [***] of Company Interest but at least [***] of Company Interest, then such Initial Shareholder shall have the right to nominate [***] Directors;

(iii) if an Initial Shareholder owns less than [***] of Company Interest but at least [***] of Company Interest, then such Initial Shareholder shall have the right to nominate [***] Director; and

(iv) if an Initial Shareholder owns less than [***] of Company Interest, such Initial Shareholder [***].

Notwithstanding the foregoing, the thresholds contained in clauses (i) through (iii) above may be adjusted by mutual written agreement of the Initial Shareholders in the event a new Shareholder (other than an Affiliate of any of the Initial Shareholders) becomes a party to this Agreement in compliance with the terms hereof. Nothing herein shall impact the Shareholder Reserved Matters set forth in Section 7.11.

7.3 Removal; Renomination of Directors. Each Shareholder having the right to nominate Directors pursuant to Section 7.2 shall also have the right, in its sole discretion, to remove such Directors at any time and for any reason. If a Shareholder desires to remove any of its nominee Directors, it shall (a) deliver a written notice to the Company and each of the other Shareholders and (b) cause such Director to be removed (including by way of causing such Director to submit a resignation letter) and the Shareholders shall take all actions necessary (if any) to remove such Directors in accordance with Section 7.1; provided that in the event the number of Directors an Initial Shareholder is entitled to nominate is reduced in accordance with Section 7.2(c), such Initial Shareholder shall promptly cause the applicable number of nominee Directors to be removed (including by way of causing the applicable Directors to submit a resignation letter) and the Shareholders shall take all actions necessary (if any) to remove such Directors in accordance with Section 7.1. In the event any nominee Director is so removed for any reason (other than a

removal in accordance with the preceding proviso), the Shareholder that nominated the removed Director may nominate an alternative Director, and the Shareholders shall take all actions necessary pursuant to Section 7.1 to have such nominated Director be appointed. Each of the SBG Shareholder and the Tempus Shareholder shall identify their respective designees to the Board prior to the Closing, including the designees who will be serving as the Chairperson and Vice-Chairperson of the Board.

7.4 Board Meetings. Any Director shall have the authority to convene Board meetings; provided that (a) the Board shall meet at least quarterly, (b) written notice of all Board meetings shall be given to all of the Directors and the Corporate Auditor not less than five (5) Business Days in advance of each meeting (which five (5)-Business Day period may be shortened by written waiver or actual attendance, without objection, at a Board meeting by all Directors and the Corporate Auditor), which notice shall be accompanied by (i) an agenda specifying in reasonable detail the matters to be raised at such meeting and (ii) copies of any papers to be discussed at such meeting and (c) the location and time of the Board meetings shall be as determined by the Board. Directors may attend Board meetings in person or by any other means of attendance permitted under applicable Law, including via teleconference or videoconference. Board meetings shall be conducted in the English language (with Japanese translation) and minutes of such meetings shall be prepared by the Company in English and Japanese and distributed to each Director and the Corporate Auditor promptly following each meeting. Proposals or reports brought before any Board meeting for information or action (including the Company's annual financial statements) shall be prepared in Japanese and English.

7.5 Board Quorum; Voting. A quorum shall be deemed to exist for purposes of Board actions so long as at least a majority of the Directors then serving in office and entitled to vote are present, which must include at least one SBG Director and one Tempus Director. No business shall be conducted at any meeting of Directors unless a quorum is present at the beginning of the meeting and at the time when there is to be voting on any business. If a quorum is not present at any meeting, such meeting of the Board shall be adjourned for at least seven (7) days to a date, time and place proposed by the Chairperson. A meeting of Directors shall be adjourned to another time or date at the request of all the SBG Directors or all the Tempus Directors present at the meeting. No business may be conducted at a meeting after such a request has been made. Any action, determination or resolution of the Board shall require the affirmative vote of at least a majority of Directors attending and entitled to vote at the meeting at which a valid quorum pursuant to this Section 7.5 is present, which must include the affirmative vote of at least one SBG Director and one Tempus Director. No action shall be passed by the Board without the affirmative vote of at least one SBG Director and one Tempus Director. The Initial Shareholders acknowledge and agree that none of the SBG Directors or Tempus Directors shall be deemed a person having a special interest (*tokubetsu-rigai-kankei-nin*) in the context of Article 369, Clause 2 of the Companies Act, nor be excluded from voting at any meeting of Directors for the purpose of any transaction or other relationship with the SBG Shareholder, the Tempus Shareholder or any of their respective Affiliates solely because such Director is nominated by the SBG Shareholder or the Tempus Shareholder. At a meeting of Directors, each Director has one vote. Any action, determination or resolution permitted or required by applicable Law or this Agreement to be taken by the Board may be taken without a meeting if a consent in writing (including via e-mail), setting forth the action taken, is signed by all the Directors entitled to vote thereon and the Corporate Auditor does not raise objection pursuant to the Companies Act.

7.6 Officers.

(a) Except as stated in Section 7.6(b), the Board shall from time to time designate and appoint one or more officers of the Company with such titles as the Board shall determine. No officer needs to be a resident of Japan, a Shareholder or a Director. The Board may assign titles to particular officers (including President, Chief Executive Officer or Chief Financial Officer). Unless the Board otherwise decides, if an officer is assigned a title that is commonly used for officers of a *kabushiki kaisha* incorporated under the Laws of Japan, then the assignment of such title will constitute the delegation to such officer of the authority and duties that are normally associated with that office, subject to the first sentence of Section 7.6(d). Any number of offices may be held by the same person.

(b) Without limiting the foregoing and notwithstanding it, in any case of a vacancy in the office of the Chief Financial Officer for any reason (including removal pursuant to Section 7.6(d)), the SBG Shareholder shall have the right to recommend to the Board a candidate for the Company's Chief Financial Officer position, which candidate shall have experience with accounting standards in both Japan and the United States. The appointment of any candidate recommended by the SBG Shareholder shall be subject to approval of the Board at its reasonable discretion.

(c) Without limiting the foregoing and notwithstanding it, Initial Shareholders shall fully cooperate with each other and consider each other's views in good faith in order to identify the executive officer/management team and key personnel (including any personnel to be seconded from the Tempus Shareholder and personnel identified for product localization) prior to the Closing. For the avoidance of doubt, and without limiting the obligations of the parties pursuant to the preceding sentence and the obligations of the Tempus Shareholder under the Tempus Services Agreement to provide personnel to the Company, the final decision regarding the identity of the employees of the Tempus Shareholder to be seconded to the Company or assigned to product localization shall be made by the Tempus Shareholder in its sole and absolute discretion.

(d) The officers of the Company shall exercise and perform such powers and duties as shall be assigned to them from time to time by the Board, and shall serve at the sole discretion of the Board. Any officers who are appointed by the Board may be removed, at any time and from time to time, by the Board, with or without cause. To the extent permitted by applicable Law, the Board may delegate certain of its powers to officers of the Company.

7.7 Corporate Auditor. The Company shall have one Corporate Auditor, which shall be nominated by the Board and approved by the Shareholders, subject to Section 7.11. The Corporate Auditor may be removed by the Shareholders for any reason at any time in accordance with applicable Law.

7.8 Indemnification of Directors and Officers. To the fullest extent permitted by applicable Laws, the Company shall indemnify and release each Director and officer against or from monetary damages arising from such Director's or officer's breach of any duty (other than criminal acts or willful misconduct) owed as a Director and officer and against claims that may be asserted against such Director or officer as a result of such Director or officer holding such position. At the request of the Shareholder nominating the Director, the Shareholders shall take all necessary actions to give effect to the preceding sentence, including granting consent to releasing such Director's liabilities to the Company pursuant to Article 424 of the Companies Act.

7.9 Reimbursement; Compensation. The Company will pay, or cause one of its Subsidiaries to pay, the reasonable and documented out-of-pocket costs and expenses incurred by each Director in the course of such Director's service hereunder, including expenses for travel, meals and accommodation in connection with attending regular and special meetings of the Board, any board of managers, board of directors or similar governing body of each of the Company's Subsidiaries or any of their respective committees, in each case, subject to the Company's policies and procedures with respect thereto (including the requirement of reasonable documentation thereof). None of the SBG Directors or the Tempus Directors will receive compensation from the Company or any of its Subsidiaries for serving on the Board or any similar governing body of the Company's Subsidiaries.

7.10 Shareholders' Meetings. The Shareholders shall have the right to vote on such matters as set forth in the Articles and as provided under applicable Law, subject to the limitations set forth in this Agreement. Shareholders shall receive written notice of each Shareholders' meeting at least thirty (30) days before the scheduled date of such meeting (which notice period may be shortened by written waiver or actual attendance without objection by each Shareholder at such meeting). The Company shall have an annual Shareholders' meeting within three (3) months from the end of each Fiscal Year. Each Shareholders' meeting shall be at such time and place as determined by the Board. Meetings shall be conducted in the English language (with Japanese translation), and minutes of such meetings shall be prepared by the Company in Japanese and English. A quorum shall be deemed to exist for purposes of such meeting so long as Shareholders representing at least a majority of the total number of voting rights owned by all Shareholders are present at such meeting, which must include both the SBG Shareholder and the Tempus Shareholder (or their respective proxies); provided that if a quorum is not present at the meeting of Shareholders due to the absence of the SBG Shareholder (or its proxy) or the Tempus Shareholder (or its proxy), such meeting shall be adjourned to the same time and place on the date that is fifteen (15) days after the original meeting date (with written notice to all Shareholders) and, if at such adjourned meeting on the same subject and with the same agenda, such quorum is still not present, the attendance of the other Shareholders (or their proxies), so long as they hold at least a majority of the total number of voting rights owned by the Shareholders, shall be deemed a quorum. Subject to Section 7.11, any action, determination or resolution of the Shareholders shall require the affirmative vote of Shareholders representing at least a majority (or any higher percentage as required under the Companies Act) of the voting rights carried by Shareholders who are qualified to vote and attend the meeting, which must include both the SBG Shareholder and the Tempus Shareholder (or their respective proxies), and the Shareholders shall not exercise voting rights to approve any matter at the Shareholders' meeting if the required quorum is not present. Subject to Section 7.11, any action, determination or resolution permitted or required by applicable Law or this Agreement to be taken by the Shareholders may be taken without a meeting if a consent in writing (including via e-mail), setting forth the action taken, is signed by all of the Shareholders entitled to vote on such matter. This Section 7.10 shall apply *mutatis mutandis* to each general meeting of class Shareholders, which may be required pursuant to the Companies Act, for which references in this Section 7.10 to the SBG Shareholder will be replaced with the SBG Class A Shareholder.

7.11 Shareholder Reserved Matters.

(a) Notwithstanding any other provision of this Agreement to the contrary, for so long as an Initial Shareholder owns at least [***] of the Company Interest (provided that such threshold (i) shall not give any effect to the consolidation of the Company in accordance with Section 8.4 and (ii) may be adjusted by mutual agreement of the Initial Shareholders in the event a new Shareholder (other than an Affiliate of any of the Initial Shareholders) becomes party to this Agreement in compliance with the terms hereof), then, in addition to any approval required by this Agreement or applicable Law, the prior written consent of such Initial Shareholder shall be required for each of the matters set forth on Schedule 7.11 (the “Shareholder Reserved Matters”) which such consent shall not be unreasonably withheld. Notwithstanding anything herein or in the applicable Contract to the contrary, in the event a Shareholder Reserved Matter involves a Company decision with respect to a Contract between the Company and a Shareholder, including the SBG Brand License Agreement, the IP License Agreement, the Data License Agreement, the Tempus Services Agreement or the SBG Services Agreement, then any decision pertaining to such Shareholder Reserved Matter shall not require the approval of the Shareholder who is a party to such Contract; provided that in no event shall the foregoing be interpreted to limit any rights of the parties under Section 7.12 or Section 14.4.

(b) Subject to clauses (i) and (ii) of Section 7.11(a), for the avoidance of doubt, if an Initial Shareholder no longer owns at least [***] of the Company Interest, then that Initial Shareholder’s written consent shall no longer be required for the approval of any Shareholder Reserved Matter. This Section 7.11 covering Shareholder Reserved Matters shall apply only to the Initial Shareholders, and shall not apply (absent the written consent of both Initial Shareholders) to any new Shareholder who acquires a Company Interest through a permitted Transfer (with the exception of any Affiliate of an Initial Shareholder that is a Transferee of Company Securities from such Initial Shareholder, to which Affiliate the Shareholder Reserved Matters will apply in accordance with Section 14.21; provided that such Transfer is made in compliance with Section 8.3).

7.12 Deadlock Matters.

(a) Resolution by Senior Executives. Except as otherwise set forth in the last sentence of Section 6.2(b), if the Board or the Shareholders, each acting in good faith, are unable to come to a decision in respect of any matter within [***] Days of such matter first being tabled at a Board meeting or Shareholders meeting, or there arises a material disagreement relating to the Company or the Business other than to any alleged breach of this Agreement or any other Transaction Document (any of the foregoing, a “Deadlock Matter”), and such Deadlock Matter may materially affect the ability of the Company to perform its obligations under this Agreement, or may otherwise materially impair the ability of the Company to engage in the Business or to conduct the Business in an effective matter, such Deadlock Matter shall first be referred to [***] of the SBG Shareholder and [***] of the Tempus Shareholder (or, in the case of either Initial Shareholder, an alternative senior executive identified by such Initial Shareholder) who shall seek in good faith to resolve the matter on an amicable basis within [***] days (the “Senior Executive Resolution Period”).

(b) Resolution by Chief Executives. If the Deadlock Matter is not resolved prior to the expiration of the Senior Executive Resolution Period, such Deadlock Matter shall be referred to the [***] of the SBG Shareholder and the [***] of the Tempus Shareholder, who shall seek in good faith to resolve the matter on an amicable basis within [***] days (the “CEO Resolution Period”).

(c) Resolution by Expert. If the Deadlock Matter is not resolved prior to the expiration of the CEO Resolution Period, and concerns any matter which may be capable of expert determination, either Shareholder may refer the dispute for decision to an expert (the “Expert”) on the following terms:

(i) unless otherwise agreed among the Shareholders, the Expert shall be appropriately qualified based on the subject matter of the Deadlock Matter and shall be appointed by mutual agreement among the Shareholders, or, failing agreement, within [***] days of the initiation of the reference, shall (following an application made by either Shareholder) be appointed by the International Centre for Expertise in accordance with the provisions for appointment of experts under the Rules of Expertise of the International Chamber of Commerce;

(ii) the Expert shall determine whether or not the Deadlock Matter is suitable for Expert determination;

(iii) the Expert may have access to all relevant documents of the Company and of the relevant parties, subject to any confidentiality provisions then in place or as agreed among the Shareholders;

(iv) the relevant parties may make representations and submissions to the Expert but there still shall be no formal hearing;

(v) the Expert shall make a determination within [***] Days of its appointment and shall notify the Shareholders in writing of such Expert’s determination; and

(vi) the fees of the Expert shall be paid by the Shareholders in their Pro Rata Portions unless such Expert determines that the conduct of one Shareholder is such that it should pay the fees of the Expert.

(d) Resolution of Deadlock Matter.

(i) If the Deadlock Matter has been resolved pursuant to the foregoing provisions of this Section 7.12, then such resolution shall be final and binding upon the Company and the Shareholders, and the Shareholders shall, or shall cause their respective nominee Directors, to take any actions as reasonably necessary to give effect to such resolution.

(ii) If the Deadlock Matter is not resolved pursuant to foregoing provisions of this Section 7.12 and concerns the approval of a draft business plan for any Fiscal Year, then the prior year’s approved Business Plan shall continue to apply in accordance with Section 7.13(c).

(iii) If the Deadlock Matter is not resolved pursuant to the foregoing provisions of this Section 7.12, the Deadlock Matter shall then be resolved in accordance with Section 14.4.

(iv) For the avoidance of doubt and notwithstanding anything contained herein to the contrary, if the Deadlock Matter concerns the approval of whether the Company requires Additional Funding in accordance with Section 6.2(b) and the Expert or, if applicable, the Arbitrator, issues a final and binding decision to allow such Additional Funding, the provisions of Section 6.2 will apply to such Additional Funding and, for the avoidance of doubt, (A) the exercise of the rights of the Initial Shareholders under, and the process for consummation of such Additional Funding, in accordance with Section 6.2 may not be challenged as a “Deadlock Matter” and (B) an Initial Shareholder’s decision not to fund any Additional Funding, in whole or in part, shall not constitute a Deadlock Matter such that an Initial Shareholder may be forced to participate in an Additional Funding contrary to the provisions of Section 6.2(i).

7.13 Business Plan.

(a) The Initial Shareholders shall cooperate in good faith and use their respective reasonable best efforts to prepare an initial business plan of the Company by the Closing, which shall be reasonably detailed and for a period from the Closing Date until the end of five (5) full Fiscal Years of the Company and include the details set forth on Schedule 7.13(a), as well as certain financial performance goals (the “Initial Business Plan”).

(b) Immediately after the Closing, the Initial Shareholders shall cause their respective Board nominees to approve the Initial Business Plan.

(c) On an annual basis thereafter, the officers of the Company shall prepare and provide to the Board for approval a draft business plan no later than [***] Days prior to the end of each Fiscal Year. Each business plan so approved by the Board, including the Initial Business Plan, is referred to herein as a “Business Plan.” If the Board fails to approve any draft business plan prior to the beginning of the applicable Fiscal Year, then the prior Fiscal Year’s approved Business Plan, adjusted for any changes in the consumer price index over the relevant period (excluding non-recurring expenditures), will be deemed approved by the Board solely for purposes of operating the Company during such Fiscal Year until a business plan for such Fiscal Year is approved by the Board.

(d) The Board and the Company’s officers shall cause the Company to conduct its operations in accordance with the Initial Business Plan or any other Business Plan then in effect.

(e) If the Tempus Shareholder or any of its Affiliates launches any product offering in any area that is not covered by this Agreement or any of the other Transaction Documents (collectively, the “New Product Offerings”), the Board, in consultation with the SBG Shareholder and the Tempus Shareholder, will have the option (but not the obligation) (i) to expand the scope of the Business to include such New Product Offerings and (ii) to update the Business Plan then in effect, the SBG Brand License Agreement, the Tempus Services Agreement, the SBG Services Agreement, the IP License Agreement and the Data License Agreement to include the provision of New Product Offerings by the Tempus Shareholder or any of its Affiliates to the Company at [***] of providing such New Product Offerings to the Company (provided that if the Tempus Shareholder or any of its Affiliates procures any consumable, reagent, equipment or any other goods or services on behalf of the Company or any of its Affiliates because the Company is unable to procure such item directly from a third party, the Tempus Shareholder shall pass through such

goods and services to the Company at cost) (collectively, the “New Product Offering Updates”). The Initial Shareholders shall cooperate with each other and the Company to execute and deliver such instruments, agreements and other documents, and perform such other acts and things, as may be reasonably necessary or desirable for purposes of effecting such New Product Offering Updates.

7.14 Fiscal Year, Financial Statements; Accounting.

(a) The Company’s fiscal year shall be from January 1 through December 31 (the “Fiscal Year”), and the Company shall not change its Fiscal Year without the prior approval of the Initial Shareholders.

(b) In addition to non-consolidated annual financial statements prepared in accordance with JGAAP pursuant to the Companies Act, the Company shall prepare financial statements in accordance with US GAAP and in reasonable detail, and shall contain such financial data as the SBG Shareholder and the Tempus Shareholder may deem necessary in order to keep the Shareholders advised of the Company’s financial status (although quarterly statements need not include footnotes and may be subject to year-end adjustments). In the event any Initial Shareholder or any of its Affiliates determines, in its sole discretion, that additional financial statements or other accounting procedures (including, for the avoidance of doubt, variance adjustment with IFRS) are required or advisable to facilitate the accounting with respect to the Company of such Initial Shareholder or any of its Affiliates, each of the Shareholders shall cause its nominee Directors to authorize such additional financial statement or other accounting procedures, as the case may be.

(c) The Initial Shareholders shall engage [***] as the auditing firm for the Company (the “Company Auditing Firm”), which will also act as an independent auditor (*kaikei kansanin*) as defined under the Companies Act if the Company qualifies as a large company (*dai-gaisha*) as defined under the Companies Act. Notwithstanding anything to the contrary contained herein, unless and until the Tempus Shareholder exercises the Consolidation Option, the SBG Shareholder shall have the right to nominate the Company Auditing Firm, which firm shall be familiar with the corporate Laws of Japan and JGAAP, in addition to US GAAP and IFRS; provided that the Tempus Shareholder shall have the right to approve the SBG Shareholder’s nomination in writing (such approval not to be unreasonably withheld, conditioned or delayed). Each Shareholder shall take any necessary actions pursuant to Section 7.1 in order to give effect to this Section 7.14(c). If and when the Tempus Shareholder exercises the Consolidation Option, the Tempus Shareholder shall have the right to nominate the Company Auditing Firm, which firm shall be familiar with the corporate Laws of Japan and JGAAP, in addition to US GAAP and IFRS; provided that the SBG Shareholder shall have the right to approve the Tempus Shareholder’s nomination in writing (such approval not to be unreasonably withheld, conditioned or delayed).

7.15 Information Rights.

(a) In addition to and without prejudice to shareholders rights under the Companies Act or the Articles, the Company agrees to furnish to each Shareholder owning more than [***] of the Company Interest, the following information for the Company and its Subsidiaries (each reference to the “Company” in this Section 7.15 being deemed to refer to each and every such entity), the following information (in English):

(i) As soon as practicable following the end of each quarter of each Fiscal Year, but in any event within [***] days after the end of each quarter, a preliminary, unaudited balance sheet as of the end of such quarter, and preliminary, unaudited versions of the statement of income (loss), statement of cash flows, statement of changes in equity, breakdown of selling, general and administrative expenses and statement of other comprehensive income of the Company on a consolidated basis for such quarter and for the current Fiscal Year to date, including a comparison to plan figures for such period, prepared in accordance with US GAAP (except as noted therein or as disclosed to the recipients thereof), with the exception that no notes need be attached to such statements and year-end audit adjustments may not have been made, in each case certified by the chief financial officer of the Company;

(ii) As soon as practicable following the end of each Fiscal Year beginning as of and including the Company's initial, partial Fiscal Year, but in any event within [***] days after the end of the applicable Fiscal Year, an audited statement of income (loss), statement of cash flows, statement of changes in equity, breakdown of selling, general and administrative expenses and statement of other comprehensive income for such Fiscal Year and the audited balance sheet as of the end of such Fiscal Year of the Company on a standalone and on a consolidated basis, together with accompanying notes, all prepared in accordance with US GAAP (except as noted therein or as disclosed to the recipients thereto), setting forth in each case in comparative form the figures for the previous Fiscal Year and to plan figures for such period, all in reasonable detail. In the event the Tempus Shareholder exercises the Consolidation Option in accordance with Section 8.4, all such annual financial statements shall also be audited and certified by the Company Auditing Firm in order to ensure appropriate consolidation with the Tempus Shareholder's U.S.-based financial statements; and

(iii) Upon the request of any Shareholder, any other information which is reasonably required by the Shareholder for accounting purposes, as soon as practicable after such request.

(b) Subject to Section 7.15(c)(ii), for so long as any Shareholder holds at least a [***] of the Company Interest, the Company shall allow such Shareholder, at such Shareholder's expense, to visit and inspect the Company's properties, examine its books of account and records and discuss the Company's affairs, finances and accounts with its officers, in each case during normal business hours of the Company as may be reasonably requested by such Shareholder; provided that the Company shall not be obligated pursuant to this Section 7.15(b) to provide access to any information the disclosure of which would adversely affect the attorney-client privilege between the Company and its counsel.

(c) Notwithstanding anything to the contrary in this Section 7.15 or otherwise in this Agreement, (i) all Shareholders shall receive the information set forth in Section 7.15(a)(ii) and (ii) no Shareholder shall, by reason of this Agreement, have access to any Trade Secrets, Confidential Information (unless covered by an enforceable confidentiality agreement, in form acceptable to the Company) or classified information of the Company. Each Shareholder hereby agrees to hold in confidence and trust and not to misuse or disclose any Confidential Information provided pursuant to this Section 7.15.

7.16 Employee Incentive Plan. The Initial Shareholders shall use their commercially reasonable efforts to cause the Board and the Company to adopt a non-voting employee stock incentive plan (an "Employee Incentive Plan") on such terms as shall be mutually agreed by the Initial Shareholders, as soon as reasonably practicable after the Closing.

8. Transfer of Company Securities

8.1 Prohibition on Transfer During the Lock-in Period. Except as expressly permitted by this Section 8 or Section 6.1(b), during the period starting on the Closing Date and ending on [***] (the "Lock-in Period"), no Shareholder may Transfer any of such Shareholder's Company Securities to any Person without the prior written consent of each of the Initial Shareholders. No party shall attempt (including by submitting a request to the Company to approve a Transfer under Article 136 or Paragraph 2 of Article 137 of the Companies Act) or conduct any Transfer in a way that will constitute a breach of this Agreement.

8.2 Transfers Following the Lock-in Period; Right of First Refusal.

(a) Following the Lock-in Period, an Initial Shareholder may Transfer its Company Securities to another Person subject to compliance with the provisions of this Section 8.2.

(b) If, following the Lock-in Period, an Initial Shareholder proposes to Transfer all or any portion of its Company Securities (the "ROFR Securities") to any Person (any such Initial Shareholder, a "Transferring Shareholder"), the Transferring Shareholder shall deliver written notice to the other Initial Shareholder no later than [***] Days before the proposed closing date of such Transfer (the "Transfer Notice"), together with a copy of any form of agreement executed by the Transferring Shareholder in connection with such Transfer transaction. Such Transfer Notice shall specify the following:

(i) the proposed closing date of the Transfer;

(ii) the price per share of the ROFR Securities (and if applicable, the differing prices of different classes of ROFR Securities) applicable to the Transfer by the Transferring Shareholder and the number of ROFR Securities to be sold, and a high-level summary of the other material terms and conditions of the proposed Transfer; and

(iii) the identity of the proposed Transferee of the ROFR Securities.

(c) The Initial Shareholder receiving such Transfer Notice may, within ten (10) Business Days from its receipt of such Transfer Notice, deliver written notice to the Transferring Shareholder and the Company (the "ROFR Election Notice") that it elects to purchase all or any portion of the ROFR Securities, or declines to purchase any of the ROFR Securities. If such Initial Shareholder does not deliver a ROFR Election Notice by such date, it will be deemed to have elected not to purchase any of the ROFR Securities.

(d) If the Initial Shareholder elects to purchase less than all of the ROFR Securities or declines to purchase the ROFR Securities in accordance with Section 8.2(c), the Transfer of the remaining portion of the ROFR Securities to the proposed Transferee shall be consummated as soon as practicable following the delivery of the ROFR Election Notice, but in any event within sixty (60) days following the delivery of the Transfer Notice by the Transferring Shareholder; provided that such sixty (60)-day period shall be extended to obtain any Regulatory Approvals as may be reasonably necessary to effect such Transfer. If the ROFR Securities are not so Transferred during such sixty (60)-day period (as may be extended pursuant to the preceding proviso), then the Transferring Shareholder shall not Transfer any of such ROFR Securities without complying again in full with the provisions of this Agreement. Subject to obtaining any Regulatory Approvals as may be reasonably necessary to effect the purchase of the ROFR Securities, the Initial Shareholder electing to purchase the ROFR Securities in accordance with this Section 8.2 shall pay for the ROFR Securities by delivery of wire transfer of immediately available funds to an account specified by the Transferring Shareholder. The Transferring Shareholder shall cooperate with the Initial Shareholder electing to purchase the ROFR Securities to obtain any Regulatory Approvals as may be reasonably necessary to effect the purchase of the ROFR Securities and the provisions of Section 5.1 shall apply *mutatis mutandis* with respect to the process of obtaining such Regulatory Approvals. The Initial Shareholder electing to purchase the ROFR Securities in accordance with this Section 8.2 shall be entitled to receive customary representations and warranties regarding such sale and receive a customary release of claims and such other evidence, including applicable inheritance and estate tax waivers, as may be reasonably necessary (in the electing Initial Shareholder's judgment, as applicable) to effect the purchase of the ROFR Securities. If an Initial Shareholder fails to deliver a ROFR Election Notice or elects to not purchase the ROFR Securities with respect to a particular proposed Transfer, such failure or election shall not constitute a waiver of such Initial Shareholder's right to exercise its rights pursuant to this Section 8.2 for subsequent proposed Transfers.

8.3 Affiliate Transfer. Notwithstanding any provisions to the contrary in this Section 8 or otherwise in this Agreement, any Shareholder may Transfer its Company Securities to any one or more of its Affiliates (upon at least ten (10) Business Days' notice to the other Shareholders), subject to such Transferee becoming a party to this Agreement; provided that such Transfer to an Affiliate shall not relieve the transferring Shareholder from its obligations under this Agreement or the other Transaction Documents, which shall remain in full force and effect in all respects and such transferring Shareholder shall remain responsible for the performance of its Affiliate's obligations as a Shareholder hereunder. To the extent that the Transferee ceases to be an Affiliate of the transferring Shareholder, immediately prior to such time, the transferring Shareholder shall cause the relevant Company Securities to be Transferred back to the original Shareholder (or another eligible Affiliate thereof).

8.4 Consolidation of the Company by Tempus Shareholder. On or after January 1, 2027 and solely for the purpose of permitting the Tempus Shareholder to consolidate the Company's financial statements with its own pursuant to US GAAP, the Tempus Shareholder shall have the right to purchase or subscribe for the number of Common Stock or Class A Stock or other new series or class of capital stock of the Company equal to one-tenth of one percent (0.1%) of the Company Interest as of the date of the Consolidation Option Notice (the "Controlling Interest," and such purchase or subscription option, the "Consolidation Option") from the SBG Shareholder or the Company at the Fair Market Value on the terms and subject to the conditions of this

Section 8.4. If the Tempus Shareholder desires to exercise the Consolidation Option, it shall deliver a written notice to the SBG Shareholder, and to the Company if applicable, to that effect (the “Consolidation Option Notice,” and the date of such notice, the “Consolidation Option Notice Date”). Following receipt of the Consolidation Option Notice by the SBG Shareholder (and the Company), the Tempus Shareholder and the SBG Shareholder shall discuss in good faith and make the minimum changes to this Agreement and the governance provisions contained herein necessary to effectuate such consolidation under US GAAP following the exercise of the Consolidation Option. The Tempus Shareholder and the SBG Shareholder shall use their respective reasonable best efforts to maintain all other governance aspects of the 50/50 joint venture as specified in this Agreement following the exercise of the Consolidation Option. The Initial Shareholders shall cooperate with each other and the Company to execute and deliver such instruments, agreements and other documents, and perform such other acts and things, as may be reasonably necessary or desirable for the purposes of effecting any such changes, including amendments mutually agreed by the Tempus Shareholder and the SBG Shareholder to this Agreement or any of the other Transaction Documents. For purposes of this Section 8.4 only, and for no other purpose, the Fair Market Value of the Controlling Interest shall be determined by the mutual agreement of the Initial Shareholders, or (b) if the Initial Shareholders are unable to so mutually agree, then \$[***], which represents [***].

8.5 Transfer of SPV. Notwithstanding the provisions of Section 14.20(b) or anything else to the contrary in this Agreement, if either Initial Shareholder is a legal entity with a primary purpose of passively holding the Company Securities (such entity, an “SPV”), the transfer of the equity interests of such SPV (or any SPV that directly or indirectly controls such SPV) will (a) be deemed a Transfer of Company Securities subject to the terms of Section 8, including, as applicable, Section 8.1 (Prohibition on Transfer During the Lock-in Period) and Section 8.2 (Transfers Following the Lock-in Period; Right of First Refusal) and (y) result in such Initial Shareholder SPV’s rights to nominate Directors being reduced in accordance with the terms of Section 7.2(c). Notwithstanding the foregoing, the foregoing shall not apply to Transfers of SPV equity interests to an Affiliate of an Initial Shareholder; provided that such Transfer is made in compliance with Section 8.3.

9. Additional Covenants of the Initial Shareholders and the Company

9.1 Dividends.

(a) To the extent permitted by any applicable Law, the Company shall distribute funds by way of dividend to the Shareholders at such time as the Board may determine, subject to Section 7.11 and the retention and establishment of reserves for expenses of the Company as set forth in the Business Plan then in effect or otherwise as determined in the sole discretion of the Board; provided that after expiration of the Lock-in Period and to the extent permitted by applicable Laws, the Company shall use its best efforts and each Shareholder shall cause its nominee Directors to vote in favor of taking any and all actions necessary, to reduce the stated capital and capital reserves to create a distributable amount (*bunpai kanou gaku*) and distribute excess cash, in the form of dividends to the Shareholders, that exceeds the amounts needed to fund the operations of the Company pursuant to the Business Plan then in effect.

(b) Any and all dividends will be distributed to Shareholders based on their Pro Rata Portion.

9.2 Exclusivity.

(a) Non-Competition. Until the later of [***], the Tempus Shareholder shall not, directly or indirectly, through itself or any of its Affiliates:

(i) engage in the Business or any business that is substantially similar to the Business in Japan; or

(ii) license Tempus Technology or Licensed Data to any competitor of the Company for use in Japan.

(iii) launch or operate, or agree to launch or operate, any joint venture or other similar partnership with any Person other than the SBG Shareholder (or any of its Affiliates) for the Business or any business that is substantially similar to the Business in any Restricted Territory without first complying with the Outside JV Consultation Right and Outside JV ROFR described in Section 9.3.

(b) Nothing in this Section 9.2 or this Agreement shall prohibit or otherwise limit the Tempus Shareholder from:

(i) performing laboratory testing on behalf of or for biopharmaceutical or life sciences companies, including Japanese companies or customers, if such testing is performed by the Tempus Shareholder in the United States;

(ii) licensing data (including Licensed Data) to non-competitors of the Company in Japan, including biopharmaceutical and other life sciences companies located or otherwise doing business in Japan; provided that [***]; or

(iii) performing its obligations under the Tempus Services Agreement.

(c) In the event the Tempus Shareholder or any of its Affiliates, on the one hand, and the SBG Shareholder or any of its Affiliates, on the other hand, mutually agree to launch a joint venture in any of the then applicable Restricted Territories, the definitive transaction agreement for such joint venture shall contain the same restrictions set forth in Section 9.2(a), on the Tempus Shareholder and its Affiliates from competing with such joint venture in such Restricted Territory.

(d) The restrictions set forth in the preceding provisions of this Section 9.2 shall terminate in the event that the SBG Shareholder, directly or through one or more of any of its controlled Affiliates, owns, manages, operates, controls or participates in the ownership, management, operation or control of, any Person that is engaged in the Business or a business that is substantially similar to the Business in Japan; provided that for all purposes of this Section 9.2, the term “control” or “controlled” shall mean the possession, directly or indirectly, of power to direct or cause the direction of management or policies (whether through ownership of securities or other ownership interests, by Contract or otherwise); provided, further, that the SBG Shareholder shall not be deemed to control (i) [***], or (ii) [***].

9.3 Outside JV. During the Lock-in Period, if the SBG Shareholder remains a Shareholder of the Company and (x) if the Tempus Shareholder decides to pursue or form an Outside JV (an “Outside JV Election”) or (y) if the Tempus Shareholder receives a bona fide offer from a third party to enter into an Outside JV (irrespective of whether such offer was initiated by the third party or by the Tempus Shareholder or any of its Affiliates), then (i) the Tempus Shareholder shall discuss with the SBG Shareholder in good faith the terms of any such Outside JV (the “Outside JV Consultation Right”) and (ii) the SBG Shareholder shall be entitled to a right of first refusal to participate in such Outside JV (the “Outside JV ROFR”), in each case pursuant to the terms set forth in this Section 9.3. “Outside JV” means a joint venture or similar arrangement for any business that is substantially similar to the Business of the Company within a Restricted Territory.

(a) Outside JV Consultation Right.

(i) Within [***] days of making an Outside JV Election, the Tempus Shareholder shall provide written notice to the SBG Shareholder of such Outside JV Election (the “Outside JV Notice”). The Outside JV Notice shall include the material terms and conditions of the potential Outside JV that the Tempus Shareholder has elected to pursue. Following delivery of the Outside JV Notice, the Tempus Shareholder shall, and shall cause its Affiliates and its and their respective Representatives and shareholders, to: (A) negotiate in good faith with the SBG Shareholder with respect to the potential Outside JV; (B) provide the SBG Shareholder with reasonable access during reasonable business hours to books, records, facilities, officers, other Representatives and any other information reasonably requested by the SBG Shareholder and, if applicable, on terms no less extensive than have been provided to any party that the Tempus Shareholder is discussing the Outside JV; and (C) keep the SBG Shareholder fully informed on a reasonably current basis of the status of, and any material developments, discussions or negotiations regarding, such potential Outside JV (the period during which the parties engage in the foregoing clauses (A)-(C), the “Outside JV Negotiation Period”).

(ii) The Outside JV Negotiation Period shall not exceed [***] days from the date of the Outside JV Notice absent mutual written agreement of the Initial Shareholders. If the Tempus Shareholder and the SBG Shareholder reach mutually agreeable terms for an Outside JV following the negotiations described in the preceding provisions of this Section 9.3(a), then the parties shall cooperate with each other in good faith to execute and deliver such instruments, agreements and other documents, and perform such other acts and things, as may be reasonably necessary or desirable for purposes of effecting such Outside JV.

(b) Outside JV ROFR.

(i) Notwithstanding and irrespective of the foregoing provisions of this Section 9.3, at least [***] Days before the Tempus Shareholder or any of its Affiliates enter into a reasonably detailed term sheet with any third party with respect to an Outside JV (a “Third-Party Outside JV Term Sheet”), the Tempus Shareholder shall provide written notice to the SBG Shareholder of such Third-Party Outside JV Term Sheet (the “Outside JV ROFR Notice”), including, if applicable, a copy of any and all material documentation and communications related thereto (including the Third-Party Outside JV Term Sheet), any proposals or offers from third parties, and the identity of the third party contemplated to be a party to such potential Outside JV;

provided that to the extent that any such disclosure is expressly prohibited by the terms of a confidentiality agreement between the Tempus Shareholder and such third party (despite the Tempus Shareholder using its commercially reasonable efforts to permit such disclosure), then, in lieu of disclosing such material documentation, communications or identity of such third party, the Tempus Shareholder shall include a reasonably detailed description of the proposed Outside JV, including its material terms and a reasonably detailed description of the third party (including its industry, geography and general description of its business) to enable the SBG Shareholder to evaluate such potential Outside JV. The Outside JV ROFR Notice shall include, at a minimum, the principal economic and legal terms for such proposed Outside JV, including by way of example price, capital contributions, conditions to close, license and other commercial terms, governance rights, transfer and exit rights and key operational matters.

(ii) Within [***] days of receiving the Outside JV ROFR Notice (such period the “Outside JV ROFR Exercise Period”), the SBG Shareholder shall have the right to exercise the Outside JV ROFR by delivering written notice to that effect to the Tempus Shareholder (the “Outside JV ROFR Exercise Notice”). If the SBG Shareholder delivers an Outside JV ROFR Exercise Notice pursuant to the preceding sentence, then for a period of [***] days following delivery of the Outside JV ROFR Exercise Notice (the “Outside JV ROFR Period”), the Tempus Shareholder shall, and shall cause its Affiliates and its and their respective Representatives and shareholders, to: (i) negotiate exclusively in good faith with the SBG Shareholder the definitive agreements for such Outside JV based upon the terms set forth in the Third-Party Outside JV Term Sheet or the Outside JV ROFR Notice, as the case may be, and (ii) provide the SBG Shareholder with reasonable access during reasonable business hours to books, records, facilities, officers, other Representatives and any other information reasonably requested by the SBG Shareholder. If the Tempus Shareholder and the SBG Shareholder reach mutually agreeable terms for an Outside JV following the negotiations described in the preceding provisions of this Section 9.3(b), then the parties shall cooperate with each other in good faith to execute and deliver such instruments, agreements and other documents, and perform such other acts and things, as may be reasonably necessary or desirable for purposes of effecting such Outside JV.

(iii) If the SBG Shareholder fails to deliver an Outside JV ROFR Exercise Notice within the Outside JV ROFR Exercise Period, elects not to exercise the Outside JV ROFR with respect to the particular proposed Outside JV, or the parties are unable to execute a definitive agreement within the Outside JV ROFR Exercise Period, then the Tempus Shareholder shall be free to enter into a definitive agreements, based on the terms set forth in the Outside JV ROFR Notice as delivered to the SBG Shareholder with the third party described in such Outside JV ROFR Notice; provided that if the Tempus Shareholder does not so consummate such Outside JV within [***] days, then the Tempus Shareholder shall not commence or continue a process for such Outside JV or enter into any definitive agreement for, or close, such Outside JV without again complying with all of the notice and negotiation procedures and requirements set forth in this Section 9.3.

(c) For the avoidance of doubt, the rights set forth in this Section 9.3 shall apply with respect to each proposed Outside JV and in the event that the terms of a particular Outside JV materially change relative to the terms set forth in the applicable Outside JV Notice or Outside JV ROFR Notice (such material change shall include any change to principal economic and legal terms for such Outside JV, including by way of example, price, capital contributions, conditions

to close, license and other commercial terms, governance rights, transfer and exit rights and key operational matters), the Tempus Shareholder shall again comply with the obligations set forth in this Section 9.3, including delivery of a new Outside JV Notice or Outside JV ROFR Notice, as applicable.

9.4 India JV. During the Lock-in Period, each time the Tempus Shareholder proposes to launch any joint venture or other similar partnership with a substantially similar business model as the Company in India (each, an “India JV”), the Tempus Shareholder shall offer the SBG Shareholder a reasonable and meaningful opportunity to make an offer to participate in such joint venture or other similar partnership by negotiating in good faith with the SBG Shareholder with respect to the potential India JV, including the terms thereof and opportunities for the SBG Shareholder and the Tempus Shareholder to collaborate in such country; provided that the decision to enter into any definitive agreement with respect to an India JV shall be in the Tempus Shareholder’s sole and absolute discretion.

9.5 Data Support; Data Support Business Opportunity.

(a) Data Support. From and after the Closing, and for so long as the SBG Shareholder remains a Shareholder of the Company, the SBG Shareholder, the Tempus Shareholder and the Company shall discuss in good faith the prospect of the SBG Shareholder or any of its Affiliates providing high-speed data processing and analysis products and services to the Company (“Data Support”) from data centers or similar infrastructure of the SBG Shareholder or any of its Affiliates on commercially reasonable and arms-length terms.

(b) Data Support Business Opportunity.

(i) Without limiting the provisions set forth in Section 9.5(a), at least [***] days prior to the Company entering into any definitive agreement (each, a “Third-Party Data Support Agreement”) with a third-party service provider for any Data Support (each, a “Data Support Business Opportunity”), the Company shall provide a written notice to the SBG Shareholder (the “Data Support Business Opportunity ROFR Notice”). The Data Support Business Opportunity ROFR Notice shall provide sufficient information, and the Company shall additionally provide to the SBG Shareholder such other information reasonably requested by the SBG Shareholder, to allow the SBG Shareholder or its Affiliates to evaluate the material terms of the proposed Third-Party Data Support Agreement to assess whether the SBG Shareholder or its Affiliate, as the case may be, is willing and able to provide Data Support on similar or better terms.

(ii) During the period commencing on the date on which the SBG Shareholder becomes entitled to a Data Support Business Opportunity ROFR Notice and until the expiration of the Data Support Business Opportunity ROFR Period, neither the Company nor any of its Affiliates shall enter into any definitive documentation contemplating a Data Support Business Opportunity with any party other than the SBG Shareholder.

(iii) The SBG Shareholder shall have the right, exercisable within [***] days from the date it receives the Data Support Business Opportunity ROFR Notice (the “Data Support Business Opportunity ROFR Period”), to consummate and make effective the transactions contemplated by the Third-Party Data Support Agreement based on the terms set forth in such

Third-Party Data Support Agreement, and such other terms as may be mutually agreed between the Company and the SBG Shareholder or one or more of its Affiliates (the “Data Support Business Opportunity ROFR”), by delivering written notice to the Company (the “Data Support Business Opportunity ROFR Exercise Notice”); provided that such Data Support Business Opportunity ROFR may only be exercised if the SBG Shareholder (directly or through one or more of its Affiliates) can provide the applicable Data Support to the Company on terms that are substantially similar or better to those being offered by the applicable third-party service provider as set forth in the Third-Party Data Support Agreement, including price, quantity, functionality, quality and any other commercial term that a similar situated, reasonable party would consider when selecting such a third-party service provider. Upon delivery of a Data Support Business Opportunity ROFR Exercise Notice, the SBG Shareholder and the Company shall cooperate with each other in good faith to execute and deliver such instruments, agreements and other documents, and perform such other acts and things, as may be reasonably necessary or desirable for purposes of effecting the transactions contemplated by the Data Support Business Opportunity ROFR.

(iv) If the SBG Shareholder fails to deliver a Data Support Business Opportunity ROFR Exercise Notice within the Data Support Business Opportunity ROFR Period or elects not to exercise the Data Support Business Opportunity ROFR with respect to the particular proposed Data Support Business Opportunity, then the Company shall be free, for a period of [***] days following expiration of the Data Support Business Opportunity ROFR Period, to enter into the Third-Party Data Support Agreement with the party identified in the Data Support Business Opportunity ROFR Notice on the terms set forth in the Third-Party Data Support Agreement as delivered to the SBG Shareholder in accordance with Section 9.5(b) (i); provided that if the Company does not so consummate such Data Support Business Opportunity during such 240-day period, then the Company shall not commence or continue a process for such Data Support Business Opportunity or enter into any definitive agreement for, or close, such Data Support Business Opportunity without again complying with all of the notice and negotiation procedures and requirements set forth in this Section 9.5(b).

(v) For the avoidance of doubt, the rights set forth in this Section 9.5(b) shall apply with respect to each proposed Data Support Business Opportunity and in the event that the terms of a particular Data Support Business Opportunity change relative to the terms set forth in the applicable Data Support Business Opportunity ROFR Notice, the Company shall be required to again comply with all the obligation set forth in this Section 9.5(b), including delivery of a new Data Support Business Opportunity ROFR Notice. Each Shareholder shall take any necessary actions pursuant to Section 7.1 in order to effect the terms of this Section 9.5(b).

9.6 License of Additional Records. From and after the Closing, pursuant to Section 2(c) of the Data License Agreement, the Board shall have the option to authorize the purchase of additional licenses of Unrestricted De-Identified Records, as the Data License Agreement defines such term. The Tempus Shareholder shall ensure that its nominee Directors do not unreasonably withhold their approval of such authorization.

9.7 Insurance. From and after the Closing, the Company shall keep its assets and those of its Subsidiaries which are of an insurable character insured by financially sound and reputable insurers against loss or damage by fire, explosion and other risks customarily insured against by companies in the Company’s line of business, and maintain, with financially sound and reputable

insurers, insurance against other hazards and risks and liability to persons and property to the extent and in the manner customary for companies in similar businesses similarly situated. At all times after the Closing, the Company shall procure and maintain directors' and officers' fiduciary and related liability insurance from financially sound and reputable insurers in an amount and on terms and conditions satisfactory to the Board.

9.8 Accounts and Records. Subject to the last sentence of Section 7.14(b), from and after the Closing, the Company shall keep true records and books of account in which full, true and correct entries will be made of all dealings or transactions in relation to its business and affairs in accordance with US GAAP.

9.9 Maintenance of Corporate Existence, Etc. From and after the Closing, the Company shall maintain in full force and effect its corporate existence, rights and franchises and all licenses and other rights in or to use Intellectual Property Rights owned or possessed by it or any Subsidiary and deemed by the Company to be necessary to the conduct of their business.

9.10 Proprietary Information and Inventions Agreements. From and after the Closing, the Company shall procure from each Person employed by, contracting with or seconded to, it or any Subsidiary to enter into a proprietary information and inventions agreement in a form reasonably satisfactory to the Company.

10. Representations and Warranties of the SBG Shareholder

The SBG Shareholder hereby represents and warrants to the Tempus Shareholder as of the Effective Date and the Closing Date (or as of such other date and time as may be expressly provided herein) as follows:

10.1 Organization and Power. The SBG Shareholder is a *kabushiki kaisha*, duly formed and validly existing and, to the extent such concept is applicable, in good standing under the Laws of Japan. The SBG Shareholder is duly qualified or licensed to do business and, to the extent such concept is applicable, in good standing in those jurisdictions where the conduct or nature of their business makes such qualification or license necessary, except for those jurisdictions in which the failure by the SBG Shareholder to be so qualified or licensed would not reasonably be expected to have, individually or in the aggregate, an SBG Material Adverse Effect. The SBG Shareholder has all requisite corporate power and authority to own, operate, lease or otherwise hold its properties and assets and to conduct its business as presently conducted, except as would not reasonably be expected to have, individually or in the aggregate, an SBG Material Adverse Effect. The SBG Shareholder has the power and authority to execute and deliver this Agreement and the other Transaction Documents to which such it is a party and to carry out the transactions contemplated hereby and thereby.

10.2 Company. As of the Closing, (a) the Company is a *kabushiki kaisha* duly incorporated and validly existing under the Laws of Japan, (b) the sole owner of the SBG Existing Shares is the SBG Shareholder, which owns such SBG Shareholder Existing Shares free and clear of any and all Liens, (c) the Company has not engaged in any activity, business or other operation since its organization, other than incorporation-related matters and any actions taken to carry out the transactions contemplated by this Agreement and the other Transaction Documents, (d) the

Company does not owe any debts, liabilities, taxes or other obligations to any Person and (e) the articles of incorporation of the Company are in the form of the Articles.

10.3 Authorization and Binding Effect. The execution and delivery of this Agreement and the other Transaction Documents by the SBG Shareholder, the performance by the SBG Shareholder of its obligations hereunder and thereunder and the consummation of the transactions contemplated hereby and thereby in accordance with the terms hereof and thereof have been or shall be duly authorized by all requisite action on the part of the SBG Shareholder. This Agreement and the other Transaction Documents have been or shall be duly executed and delivered by the SBG Shareholder, and, assuming due execution and delivery by the Tempus Shareholder and other parties thereto, constitute or shall constitute legal, valid and binding obligations of the SBG Shareholder, enforceable against the SBG Shareholder in accordance with their respective terms, except as such enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium or similar Laws affecting creditors' rights generally and by general equitable principles.

10.4 No Conflict. The execution and delivery by the SBG Shareholder of this Agreement and the other Transaction Documents to which it is a party, and the consummation by the SBG Shareholder of the transactions contemplated hereby and thereby in accordance with the terms hereof and thereof, does not and will not (a) violate, conflict with or result in a breach of, cause acceleration to, or constitute a default (or an event which, with notice or lapse of time or both, would constitute a default) under (i) any provision of the organizational documents of the SBG Shareholder; (ii) any of the terms, conditions or provisions of any material Contract to which the SBG Shareholder is a party, or by which the SBG Shareholder or any of its properties is bound or (iii) assuming the accuracy of the representations and warranties of the Tempus Shareholder in Section 11, any term or provision of any Law or Order applicable to the SBG Shareholder, (b) result in the creation or imposition of any Lien on the properties of the SBG Shareholder, or (c) require consent or approval under any of the terms, conditions or provisions of any material Contract to which the SBG Shareholder is a party, or by which the SBG Shareholder or any of its properties is bound, except, in the case of clauses (a)(ii), (a)(iii), (b) and (c) as would not reasonably be expected to have, individually or in the aggregate, an SBG Material Adverse Effect.

10.5 Consents and Approvals. The execution, delivery and performance by the SBG Shareholder of this Agreement and the other Transaction Documents does not require any consent, approval, authorization or other action by, or filing with or notification to, any Governmental Authority, except (a) filings necessary for incorporation of the Company (b) Closing Regulatory Approvals, (c) the absence of which are not reasonably likely to prevent, materially delay or materially impair the ability of the SBG Shareholder and its Subsidiaries to consummate the transactions contemplated hereby or thereby and (c) as would not reasonably be expected to have, individually or in the aggregate, an SBG Material Adverse Effect.

10.6 Brokers and Finders. No Person acting on behalf or under the authority of the SBG Shareholder is or shall be entitled to any broker's, finder's or similar fee or commission in connection with the transactions contemplated hereby.

10.7 No Insolvency Event. No Insolvency Event, which may reasonably affect its execution or performance of this Agreement, is pending, or to the best of its knowledge, threatened against it.

10.8 No Lawsuit. There is no lawsuit, action, claim, arbitration or legal, administrative or other proceeding or governmental investigation, which may reasonably affect its execution or performance of this Agreement, pending or, to the best of its knowledge, threatened against it in any jurisdiction.

11. Representations and Warranties of the Tempus Shareholder

The Tempus Shareholder hereby represents and warrants to the SBG Shareholder as of the Effective Date and the Closing Date (or as of such other date and time as may be expressly provided herein) as follows:

11.1 Organization and Power. The Tempus Shareholder is a corporation, duly incorporated and validly existing in good standing under the Laws of the State of Delaware. The Tempus Shareholder is duly qualified or licensed to do business and, to the extent such concept is applicable, in good standing in those jurisdictions where the conduct or nature of their business makes such qualification or license necessary, except for those jurisdictions in which the failure by the Tempus Shareholder to be so qualified or licensed would not reasonably be expected to have, individually or in the aggregate, a Tempus Material Adverse Effect. The Tempus Shareholder has all requisite corporate, limited liability company or similar power and authority to own, operate, lease or otherwise hold its properties and assets and to conduct its business as presently conducted, except as would not reasonably be expected to have, individually or in the aggregate, a Tempus Material Adverse Effect. The Tempus Shareholder has the corporate power and authority to execute and deliver this Agreement and the other Transaction Documents to which it is a party and to carry out the transactions contemplated hereby and thereby.

11.2 Authorization and Binding Effect. The execution and delivery of this Agreement and the other Transaction Documents by the Tempus Shareholder, the performance by the Tempus Shareholder of its obligations hereunder and thereunder and the consummation of the transactions contemplated hereby and thereby in accordance with the terms hereof and thereof have been or shall be duly authorized by all requisite action on the part of the Tempus Shareholder. This Agreement and the other Transaction Documents have been or shall be duly executed and delivered by the Tempus Shareholder, and, assuming due execution and delivery by the SBG Shareholder and other parties thereto, constitute or shall constitute legal, valid and binding obligations of the Tempus Shareholder, as applicable, enforceable against the Tempus Shareholder in accordance with their respective terms, except as such enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium or similar Laws affecting creditors' rights generally and by general equitable principles.

11.3 No Conflict. The execution and delivery by the Tempus Shareholder of this Agreement and the other Transaction Documents to which it is a party, and the consummation by the Tempus Shareholder of the transactions contemplated hereby and thereby in accordance with the terms hereof and thereof, do not and will not (a) violate, conflict with or result in a breach of, cause acceleration to, or constitute a default (or an event which, with notice or lapse of time or

both, would constitute a default) under (i) any provision of the certificate of incorporation or other organizational documents of the Tempus Shareholder, (ii) any of the terms, conditions or provisions of any material Contract to which the Tempus Shareholder is a party, or by which the Tempus Shareholder or any of its properties is bound or (iii) assuming the accuracy of the representations and warranties of the SBG Shareholder in Section 10, any term or provision of any Law or Order applicable to the Tempus Shareholder, (b) result in the creation or imposition of any Lien on the properties of the Tempus Shareholder or (c) require consent or approval under any of the terms, conditions or provisions of any material Contract to which the Tempus Shareholder is a party, or by which the Tempus Shareholder or any of its properties is bound, except, in the case of clauses (a)(ii), (a)(iii), (b) and (c) as would not reasonably be expected to have, individually or in the aggregate, a Tempus Material Adverse Effect.

11.4 Consents and Approvals. The execution, delivery and performance by the Tempus Shareholder of this Agreement and the other Transaction Documents does not require any consent, approval, authorization or other action by, or filing with or notification to, any Governmental Authority, except (a) the Closing Regulatory Approvals, (b) the absence of which are not reasonably likely to prevent, materially delay or materially impair the ability of the Tempus Shareholder to consummate the transactions contemplated hereby or thereby and (c) as would not reasonably be expected to have, individually or in the aggregate, a Tempus Material Adverse Effect.

11.5 CFIUS. Neither the Tempus Shareholder nor its Affiliates are, own or control, a U.S. business that produces, designs, tests, manufactures, fabricates or develops one or more critical technologies as defined under 31 C.F.R. 800.215. The Tempus Shareholder has no current intention of engaging in such activities in the future.

11.6 Compliance with Data Laws. The Tempus Shareholder is, and at all times since inception has been, in material compliance with all Laws relating to the access, collection, storage, transmission, transfer (including cross-border transfer), disclosure, use, security, disposal or other processing of personal data (the "Data Protection Laws"), including Health Insurance Portability and Accountability Act of 1996, as amended by the Health Information Technology for Economic and Clinical Health Act, including all binding rules and regulations promulgated thereunder ("HIPAA") with regard to protected health information (as such term is defined under HIPAA). The data licensed by the Tempus Shareholder has been collected and licensed in compliance with the Data Protection Laws and de-identified in compliance with 45 C.F.R. § 164.514.

11.7 Brokers and Finders. No Person acting on behalf or under the authority of the Tempus Shareholder is or shall be entitled to any broker's, finder's or similar fee or commission in connection with the transactions contemplated hereby.

11.8 No Insolvency Event. No Insolvency Event, which may reasonably affect its execution or performance of this Agreement, is pending, or to the best of its knowledge, threatened against it.

11.9 No Lawsuit. There is no lawsuit, action, claim, arbitration or legal, administrative or other proceeding or governmental investigation, which may reasonably affect its execution or performance of this Agreement, pending or, to the best of its knowledge, threatened against it in any jurisdiction.

12. Fair Market Value

12.1 The “Fair Market Value” of assets as of the Fair Market Value Determination Date will be the fair value for such assets, as determined by an independent Big 4 Accounting Firm, or, if no such accounting firm is independent, such other independent third-party, internationally recognized, independent valuation agent (the “Independent Appraiser”) selected by the Board and mutually consented to by the Initial Shareholders, such consent not to be unreasonably withheld, conditioned or delayed, to deliver a written determination of the Fair Market Value of such assets (such determination to include a report setting forth all material analyses used in arriving at such determination, which, for the avoidance of doubt, such analyses shall assume a sale on arm’s-length terms, that such assets are transferred free of Liens, and taking into account any other factors that the Independent Appraiser reasonably believes should be taken into account) within [***] days of being engaged or such shorter time as the Independent Appraiser and the Board may reasonably determine. Each of the Initial Shareholders is entitled to make submissions to the Independent Appraiser, including oral submissions, and will provide (or ensure that the Company provides) the Independent Appraiser with such assistance and documents as the Independent Appraiser reasonably requests for the purpose of reaching a determination of the Fair Market Value, subject to the Independent Appraiser agreeing to provide such confidentiality undertakings as the Initial Shareholders or the Company, as applicable, may reasonably require. To the extent not provided for by this Section 12.1, the Independent Appraiser may, in its reasonable discretion, determine such other procedures to assist with the valuation as it considers appropriate, including (to the extent it considers necessary) retaining professional advisors to assist it in reaching its determination of the Fair Market Value. The determination of the Independent Appraiser of the Fair Market Value shall be final and binding on the Initial Shareholders (absent manifest error or fraud); provided that such determination shall not change the other requirements of determining the Fair Market Value. For the avoidance of doubt, as used in this Section 12.1, for purposes of any (a) Additional Funding, the “assets” shall mean the enterprise value of the Company (provided that for purposes of any Additional In-Kind Contribution that is approved in accordance with Section 6.2(j)), “assets” shall mean the applicable Additional In-Kind Contribution so approved) and (b) exercise by the Tempus Shareholder of the Consolidation Option, the “assets” shall mean the Controlling Interest.

13. Term and Termination; Withdrawal of Shareholders

13.1 Term. This Agreement shall be effective as of the Effective Date and shall continue in full force and effect until terminated pursuant to Section 13.2.

13.2 Termination. This Agreement may be terminated as follows:

(a) by mutual written agreement of the SBG Shareholder and the Tempus Shareholder;

(b) by either the SBG Shareholder or the Tempus Shareholder, effective immediately upon written notice to the other Initial Shareholder and the Company, at any time after the date that is 180 days after the Effective Date (the “Long Stop Date”) if Closing has not occurred by the Long Stop Date; provided that the right to terminate this Agreement under this Section 13.2(b) shall not be available to any Initial Shareholder whose action or failure to act has been a principal cause of or resulted in the failure of the Closing to occur on or before the Long Stop Date and such action or failure to act constitutes a breach of this Agreement;

(c) Subject to Section 13.5 and Section 13.6, automatically (in its entirety) without notice on the date upon which all Company Securities (other than any Company Securities to be issued to employees of the Company pursuant to an Employee Incentive Plan) are owned by one Shareholder; or

(d) by the commencement of any proceedings for the (voluntary or involuntary) liquidation of the Company in each case subject to Section 7.11 and in accordance with (i) applicable Law, (ii) the passing of an order of any court appointing a provisional liquidator in any other proceeding seeking the liquidation of the Company, (iii) the occurrence of any dissolution event provided in the Companies Act or the Articles or (iv) the Shareholders' resolution to approve dissolution the Company.

13.3 No Withdrawal. Except as expressly provided in this Agreement, no Shareholder will have the power or right to withdraw from the Company prior to the dissolution and winding up of the Company pursuant this Agreement, the Articles and applicable Law except with the prior written approval of all the Initial Shareholders. Upon a Transfer of all of a Shareholder's Company Securities in a Transfer permitted by this Agreement, subject to Section 13.5 and Section 13.6, such Shareholder will cease to be a Shareholder. In the case of a Transfer by a Shareholder of less than all such Shareholder's Company Securities, such Shareholder's voting and other rights will be reduced proportionately for all other purposes upon the effective time of such Transfer.

13.4 Effect. Except as otherwise expressly provided in this Agreement, the withdrawal of any Shareholder as a shareholder of the Company shall not have any effect on this Agreement or any of the other Transaction Documents for the remaining Shareholders or the remaining contract parties, subject to Section 13.2(c).

13.5 Continuing Liability. Withdrawal from this Agreement for any reason shall not release any Shareholder from any liability or obligation which has already accrued as of the effective date of such withdrawal under this Agreement or any of the other Transaction Documents, and shall not constitute a waiver or release of, or otherwise be deemed to prejudice or adversely affect, any rights, remedies or claims, whether for damages or otherwise, which a Shareholder may have hereunder, at law, in equity or otherwise or which may arise out of or in connection with such withdrawal.

13.6 Survival. Section 1, Section 13.5, this Section 13.6, Section 13.7 and Section 14 shall survive the termination of this Agreement. For the avoidance of doubt, termination of this Agreement shall not have any effect on the rights and obligations of the parties under any of the other Transaction Documents.

13.7 Termination Fee. In the event either the SBG Shareholder or the Tempus Shareholder terminates this Agreement prior to the Closing Date pursuant to Section 13.2(b) (the effective date of such termination, the "Long Stop Termination Effective Date"), (a) each of the SBG Shareholder and the Tempus Shareholder shall deliver to the Company, by wire transfer of immediately available funds within [***] days of the Long Stop Termination Effective Date, an

amount equal to [***] of any authorized pre-closing expenses incurred by the Company (the “Pre-closing Fees”) as of the Long Stop Termination Effective Date (which, for clarity, shall not exceed [***] U.S. Dollars (US\$ [***]) for each party or [***] U.S. Dollars (US\$ [***]) in the aggregate) and (b) the SBG Shareholder shall cause the Company to pay such Pre-closing Fees by wire transfer of immediately available funds. For clarity, upon the Closing, any Pre-closing Fees incurred pursuant to the Data Access and Preparation Services set forth in the Data License Agreement will be credited against and deemed to be included within the [***] Japanese Yen (¥[***]) amount payable by the Company pursuant to Section 6(b) of the Data License Agreement.

14. General Provisions

14.1 Limitation of Liabilities. EXCEPT IN RESPECT OF ANY DAMAGES (AS DEFINED IN THIS AGREEMENT) IN CONNECTION WITH ANY THIRD-PARTY CLAIM, IN NO EVENT WILL EITHER INITIAL SHAREHOLDER BE RESPONSIBLE FOR LOST PROFITS OR ANY INDIRECT, SPECIAL OR CONSEQUENTIAL LOSS OR DAMAGE, REGARDLESS OF WHETHER EITHER SHAREHOLDER SHOULD HAVE FORESEEN ANY SPECIAL CIRCUMSTANCES THAT CAUSED SUCH LOSS OR DAMAGE. NOTWITHSTANDING THE FOREGOING, IN NO EVENT SHALL EITHER INITIAL SHAREHOLDER’S AGGREGATE LIABILITY FOR CLAIMS ARISING FROM UNDER THIS AGREEMENT EXCEED AN AMOUNT EQUAL TO ¥[***], EXCEPT IN THE EVENT OF FRAUD, GROSS NEGLIGENCE OR WILLFUL MISCONDUCT.

14.2 Indemnification. Each of the Shareholders (each, an “Indemnifying Party”) shall indemnify, defend and hold harmless each of the other Shareholders, the Company and each of their respective Affiliates, officers, directors, employees, shareholders, advisors, consultants, agents and other Representatives (each, an “Indemnified Party”) from and against any loss, liability, claim, damage or expenses (including reasonable legal fees and expenses) (collectively, “Damages”) suffered or incurred by any such Indemnified Party in connection with a suit or action instituted by a third party, as a result of or arising out of any breach of any representation, warranty or covenant of the Indemnifying Party contained in or made pursuant to this Agreement. Notwithstanding the foregoing, each Shareholder acknowledges and agrees that any breach of any representation, warranty or covenant of the Indemnifying Party contained in or made pursuant to this Agreement shall permit the Indemnified Party to bring a claim for breach of contract or claims based on other principles in accordance with applicable Law. The remedies set forth in this Section 14.2 shall be in addition to any other rights provided by this Agreement, the other Transaction Documents or under applicable Law. The representations and warranties and covenants of the SBG Shareholder and the Tempus Shareholder contained in or made pursuant to this Agreement shall survive the execution and delivery of this Agreement and the Closing and shall in no way be affected by any investigation or knowledge of the subject matter thereof made by or on behalf of the Tempus Shareholder or the SBG Shareholder.

14.3 Governing Law. This Agreement shall be deemed to be made in and in all respects shall be interpreted, construed and governed by and in accordance with the Laws of Japan without regard to the conflict of laws provisions, rules or principles thereof (or any other jurisdiction) to the extent that such provisions, rules or principles would direct a matter to another jurisdiction.

14.4 Dispute Resolution.

(a) Subject to Section 7.12, any dispute or claim arising out of or in connection with this Agreement, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration in Singapore in accordance with the Arbitration Rules of the Singapore International Arbitration Centre (the “SIAC”) for the time being in force, which rules are deemed to be incorporated by reference in this clause.

(b) The tribunal shall consist of three (3) arbitrators (each, an “Arbitrator”) who shall be appointed as follows: (i) each disputing party shall nominate one Arbitrator, and the two (2) Arbitrators so appointed shall appoint a third (3rd) Arbitrator who shall act as chairman of the tribunal; (ii) if either party fails to nominate an Arbitrator within [***] days of receiving a request for arbitration, such Arbitrator shall be appointed by the SIAC; and (iii) if the two (2) Arbitrators to be nominated by the disputing parties fail to agree upon a third (3rd) Arbitrator within [***] days following the appointment of the second (2nd) Arbitrator, the third (3rd) Arbitrator shall be appointed by the SIAC in accordance with the Arbitration Rules of SIAC.

(c) The language of the arbitration shall be in English.

(d) The Arbitrators shall decide any such dispute or claim strictly in accordance with the governing law specified in the applicable Transaction Document giving rise to the dispute. Judgment upon any arbitral award rendered hereunder may be entered in any court having jurisdiction, or application may be made to such court for a judicial acceptance of the award and an order of enforcement, as the case may be.

(e) Each party shall cooperate in good faith to expedite (to the maximum extent practicable) the conduct of any arbitral proceedings commenced under this Agreement.

(f) The costs and expenses of the arbitration, including the fees of the Arbitrators, reasonable costs and expenses (including attorneys’ fees), shall be borne by the party against whom the arbitral award is made.

(g) Any award made by the Arbitrators shall be final and binding on each of the parties that were parties to the dispute and the parties agree to cooperate in the satisfaction and enforcement of any such award made by the Arbitrators. If the Arbitrators determine a party to be the prevailing party under circumstances where the prevailing party won on some but not all of the claims and counterclaims, the Arbitrators may award the prevailing party a corresponding percentage of the costs and attorneys’ fees reasonably incurred by the prevailing party in connection with the arbitration.

(h) The parties to such arbitration shall keep any such arbitration confidential and shall not disclose to any Person, other than those necessary to the proceedings, the existence of the arbitration, any information, testimony or documents submitted during the arbitration or received from any other party, a witness or the Arbitrators in connection with the arbitration, and any award, unless and to the extent that disclosure is required by Law or is necessary for permitted court proceedings, such as proceedings to recognize or enforce an award.

(i) An arbitral tribunal constituted under this Agreement, or at any time prior to the arbitral tribunal being constituted, may, at the request of a party to the arbitration, consolidate the arbitration proceeding with any other arbitration arising under this Agreement or any other Transaction Documents, if the arbitration proceedings raise common questions of law or fact, and consolidation would not prejudice the rights of any party to the dispute. If two or more arbitral tribunals under such agreements issue consolidation orders, the order issued by the arbitral tribunal first constituted shall prevail.

(j) Any party may make an application to the Arbitrators or to any court of competent jurisdiction seeking any interim measures, including injunctive relief to maintain the status quo until such time as the arbitration award is rendered or the controversy is otherwise resolved.

14.5 Notices and Other Communications. Any notice, consent, demand or communication required or permitted to be given by any provision of this Agreement shall be in writing and in English and shall be (a) delivered personally to the Person or to an officer of the Person (as designated by such Person to receive any such notice or, in the absence of such designation, any officer of such Person) to whom the same is directed, (b) sent by internationally recognized express delivery service (with tracking capability, which tracking information shall be delivered via e-mail copy, receipt of which need not be acknowledged) or (c) via e-mail at the following addresses:

If to the SBG Shareholder, the SBG Class A Shareholder or the Company (before the Closing):

SoftBank Group Corp.
Tokyo Port City Takeshiba Office Tower
1-7-1 Kaigan, Minato-ku
Tokyo, Japan 105-7537
Attention: Kotaro Ueno
E-mail: [***]

with a copy (which copy shall not constitute notice) to:

Morrison & Foerster LLP
Shin-Marunouchi Building, 29th Floor
5-1, Marunouchi 1-Chome, Chiyoda-ku
Tokyo, Japan 100-6529
Attn: Kenneth A. Siegel
E-mail: ksiegel@mof.com

and

Morrison & Foerster LLP
425 Market Street
San Francisco, CA 94105-2482
Attention: Erik G. Knudsen
E-mail: eknudsen@mof.com

If to the Tempus Shareholder:

Tempus AI, Inc.
600 West Chicago Avenue, Suite 510
Chicago, IL 60654
Attention: Legal Department
E-mail: [***]

with a copy (which copy shall not constitute notice) to:

K&L Gates
Toranomon Hills Mori Tower 28F
1-23-1 Toranomon, Minato-ku
Tokyo, 105-6328
Attention: Ryan Dwyer; Aiko Yamada
E-mail: ryan.dwyer@klgates.com; aiko.yamada@klgates.com

and

Cooley LLP
110 N Wacker Dr Suite 4200
Chicago, IL 60606
Attention: Rick Ginsberg
Email: rginsberg@cooley.com

or to such other address or to the attention of any other Person as the recipient party has specified to the other Shareholders in writing delivered in accordance with this [Section 14.5](#). Any such notice, consent, demand or communication will be deemed to have been delivered and received (x) in the case of a globally recognized express delivery service, on the Business Day that receipt by the addressee is confirmed pursuant to the service's systems and (y) in the case of e-mail, on the date sent by e-mail (if no automated notice of delivery failure is received by the sender).

14.6 [Language](#). This Agreement is in the English language only, which language shall be controlling in all respects, and all versions hereof in any other language (including Japanese) shall be for accommodation only and shall not be binding upon the Shareholders. All communications and notices to be made or given pursuant to this Agreement shall be in the English language.

14.7 [Severability](#). Unless otherwise expressly provided herein, each Shareholder's rights hereunder are several rights, not rights jointly held with any of the other Shareholders. In case any provision of the Agreement shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

14.8 Confidential Information; Announcements.

(a) “Confidential Information” shall mean:

(i) this Agreement, each other Transaction Document and the provisions of each of the foregoing; and

(ii) any non-public business, financial, technical or marketing information or other confidential or proprietary information, in each case of any Shareholder, the Company or their respective Affiliates that is received by a Shareholder under or in connection with this Agreement.

(b) Each Shareholder shall, and shall cause its Representatives to, keep confidential, and not use or disclose to any Person, any Confidential Information of any other Shareholder or the Company unless:

(i) with the prior written consent of the Person to which such Confidential Information relates;

(ii) such disclosure is to such Shareholder’s Representatives or legal, tax or financial advisors to the extent reasonably necessary in connection with the performance of the Transaction Documents or compliance with applicable Law; provided that such Representatives are informed of the confidential nature of such information and are directed to comply with the terms of this Section 14.8 and that the disclosing Shareholder shall remain responsible for any breach of confidentiality by such Representatives;

(iii) the use or disclosure of such Confidential Information is authorized under the terms of any Transaction Document;

(iv) such Confidential Information is publicly known other than through disclosure by such Shareholder or its Representatives;

(v) such Confidential Information is otherwise known to such Shareholder prior to disclosure by the other Shareholder or the Company, as applicable, other than through disclosure by a third party in breach of a duty of confidentiality or by reason of the prior disclosure of Confidential Information pursuant to a binding non-disclosure agreement (or the terms of this Section 14.8);

(vi) such Confidential Information is being disclosed in an announcement made in accordance with Section 14.9;

(vii) such disclosure is required by (i) applicable Law, (ii) any Governmental Authority, irrespective of whether the requirement has the force of Law or (iii) the rules of any securities exchange on which such Shareholder’s or Representative’s securities are listed, provided in each case that such disclosure is limited to such information as may be reasonably necessary to comply with any such requirement;

(viii) such Confidential Information was developed by such Shareholder or Representative independent of any Confidential Information of any other Shareholder and there is written evidence to that effect; or

(ix) such disclosure is to any Person proposing to acquire the Shares held by such Shareholder in a manner permitted by this Agreement and the Representatives of such proposed acquirer, where (i) such Confidential Information is disclosed to facilitate such acquisition and is legitimately required for such purpose and (ii) such Shareholder has entered into a written agreement with the proposed acquirer requiring the proposed acquirer and its Representatives to maintain the confidentiality of the Confidential Information on terms that are no less restrictive than this Section 14.8.

(c) If any Shareholder is no longer an actual Shareholder (for the purposes of this Section 14.8, the “Former Shareholder”), each other Shareholder or the Company, as applicable, may by written notice require the Former Shareholder to return or destroy Confidential Information of such notifying Shareholder or the Company, as applicable. If so required, the Former Shareholder shall, and shall cause its Representatives to, return or destroy all documents to the extent reasonably technically feasible and containing the Confidential Information of such notifying Shareholder or the Company, as applicable, as soon as reasonably practicable after receiving the relevant notice. Notwithstanding the foregoing, each Shareholder and its Representatives may retain copies of such Confidential Information as is required by applicable Law or the *bona fide* document retention policy, compliance policy or back-up policies or procedures of such Shareholder or Representative (as the case may be). This Section 14.8 shall continue to apply to any Confidential Information so retained.

14.9 Public Announcements. No Shareholder may issue any press release or make any public statement with respect to the Transaction Documents, the Company or the Business without the prior written consent of the Initial Shareholders and the Company (which consent shall not be unreasonably withheld, conditioned or delayed). The foregoing shall not prohibit any Shareholder from issuing or making any releases or statements required by (a) applicable Law, (b) any Governmental Authority, irrespective of whether the requirement has the force of Law or (c) the rules of any securities exchange on which such Shareholder’s or its Affiliate’s securities are listed; provided that such Shareholder shall use its commercially reasonable efforts to consult with the other Shareholders before issuing or making any such release or statement as to its form, content and timing.

14.10 Use of Initial Shareholder Name or Logo. Without the prior written consent of the SBG Shareholder, and except as otherwise provided in the IP License Agreement and the SBG Brand License Agreement and only in accordance with their respective terms, none of the Shareholders (other than the SBG Shareholder), the Company and their respective Affiliates shall use, publish, reproduce or refer to the name, trademark, trade name, business names logo, trade dress, service mark, domain name or website of the SBG Shareholder or their respective Affiliates, including “SoftBank”, “SB” or any similar name, trademark, trade name, business names, logo, trade dress, service mark, domain name or website in any discussion, documents or materials or otherwise, including for marketing, advertising or promotional or other purposes. Without the prior written consent of the Tempus Shareholder, and except as otherwise provided in the IP License Agreement and only in accordance with its terms, none of the Shareholders (other than

the Tempus Shareholder), the Company and their respective Affiliates shall use, publish, reproduce or refer to the name, trademark, trade name, business names, logo, trade dress, service mark, domain name or website of the Tempus Shareholder or their respective Affiliates, including “Tempus” or any similar name, trademark, trade name, business names logo, trade dress, service mark, domain name or website in any discussion, documents or materials or otherwise, including for marketing, advertising or promotional or other purposes.

14.11 General Interpretative Principles. Whenever required by the context, any pronoun used in this Agreement will include the corresponding masculine, feminine or neuter forms, and the singular form of nouns, pronouns and verbs will include the plural and vice versa. The terms “hereof,” “herein,” “hereunder,” “hereto” and “herewith” and words of similar import will, unless otherwise stated, be construed to refer to this Agreement and not to any particular provision of this Agreement. The descriptive headings of this Agreement are inserted for convenience only and do not constitute a substantive part of this Agreement. All article, section, exhibit and schedule references are to the articles, sections, exhibits and schedules of this Agreement unless otherwise specified. The use of the word “including” in this Agreement will be by way of example rather than by limitation and will be deemed to mean “including, without limitation.” The use of the word “or” is inclusive and not exclusive (for example, the phrase “A or B” means “A or B or both,” not “either A or B but not both”), unless used in conjunction with “either” or the like. All references herein to “yen” or “¥” are to Japanese Yen and references to “dollars” or “\$” are to U.S. dollars. Subject to the last sentence of Section 7.14(b), any accounting term used in this Agreement will have, unless otherwise specifically provided herein, the meaning customarily given such term in accordance with US GAAP. Any references herein to any period of days will mean the relevant number of calendar days unless otherwise specified, and any deadline or time period set forth in this Agreement that by its terms ends on a day that is not a Business Day will be automatically extended to the next succeeding Business Day. All references herein to a “party” or “parties” are to a party or parties to this Agreement unless otherwise specified. Whenever required by the context, references to a “Fiscal Year” will refer to a portion thereof. The parties have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises, this Agreement will be construed as if drafted jointly by the parties, and no presumption or burden of proof will arise favoring or disfavoring any party by virtue of the authorship of any of the provisions of this Agreement.

14.12 Further Assurances. The parties to this Agreement shall each perform such acts, execute and deliver such instruments and documents, and do all such other things as may be reasonably necessary to accomplish the transactions contemplated in this Agreement and the other Transaction Documents.

14.13 Expenses. Each of the Shareholders will bear its own costs and expenses, including fees and expenses of legal counsel, accountants, brokers, consultants and other Representatives used or hired in connection with the negotiation and preparation of this Agreement and the other Transaction Documents, and consummation of the transactions contemplated hereby and thereby; provided that [***].

14.14 No Waiver. No waiver of any term or condition of this Agreement shall be valid or binding on a party to this Agreement unless the same shall have been set forth in a written document, specifically referring to this Agreement and duly signed by the waiving party. The

failure of a party to enforce at any time any of the provisions of this Agreement, or the failure to require at any time performance by another party of any of the provisions of this Agreement, shall in no way be construed to be a present or future waiver of such provisions, nor in any way affect the ability of such party to enforce each and every such provision thereafter.

14.15 Entire Agreement; Amendments. The terms and conditions contained in this Agreement (including the Exhibits and Schedules hereto) and the other Transaction Documents constitute the entire agreement between the parties hereto and supersede all previous agreements and understandings, whether oral or written, between the parties hereto with respect to the subject matter hereof and thereof. No agreement or understanding amending this Agreement shall be binding upon any party to this Agreement unless set forth in a written document which expressly refers to this Agreement and which is signed and delivered by duly authorized Representatives of each of the Initial Shareholders and the Company.

14.16 Assignment. No Shareholder shall assign this Agreement without the prior written consent of the Initial Shareholders. Notwithstanding the foregoing, after the Closing, a Shareholder may assign this Agreement to one or more of its Affiliates; provided that (a) such assignee assumes in writing the assigning Shareholder's obligations under this Agreement, (b) the assigning Shareholder shall, concurrently with such assignment, provide written notice of such assignment to the Initial Shareholders and the Company, (c) no assignment shall release the assigning Shareholder from its obligations hereunder and (d) no assignment shall be permitted if such assignment would, or would reasonably be expected to, prevent or materially delay the assigning Shareholder from performing its obligations under this Agreement or the other Transaction Documents. Any attempted assignment in violation of this Section 14.16 shall be void. Subject to the preceding sentences of this Section 14.16, this Agreement shall be binding upon and shall inure to the benefit of the Parties and their respective successors and assigns.

14.17 No Agency; No Partnership. Nothing in this Agreement or any of the Transaction Documents (or any of the arrangements contemplated by them) shall be deemed to constitute a partnership between the Shareholders nor, except as may be expressly set out in it, constitute any Shareholder the agent of any other Shareholder for any purpose.

14.18 No Beneficiaries. Nothing herein, express or implied, is intended to or shall be construed to confer upon or give to any Person, other than the Shareholders and the Company, any interests, rights, remedies or other benefits, or obligations or liabilities with respect to or in connection with any agreement or provision contained herein or contemplated hereby.

14.19 Conflict. In the event that any provision of this Agreement conflicts with or is inconsistent with any provision of the Articles, to the extent permitted by applicable Law, the terms of this Agreement shall control and prevail in all respects over the Articles, and each Shareholder shall vote all of the Company Securities now or hereafter controlled, owned or held beneficially or of record thereby, at each annual or extraordinary general meeting of shareholders of the Company, in favor of, and take all actions by written resolution in lieu of any such meeting, and take all other reasonable actions, as are necessary to ensure that at all times the Articles do not impair, limit, restrict, prevent or otherwise adversely affect any provision of this Agreement.

14.20 Change of Control.

(a) For the avoidance of doubt, other than as set forth elsewhere in this Agreement, no change of control of the Initial Shareholders, whether direct or indirect, shall have any effect on the terms of this Agreement, other Transaction Documents or any other Contract necessary for the operation of the Company, which shall remain in full force and effect and continue to bind the parties and their respective successors in such a change of control who shall be bound by the same terms and conditions set forth herein.

(b) Notwithstanding the foregoing subsection (a) or anything else to the contrary in this Agreement, if one of the Initial Shareholders undergoes a change of control, then from and after such change of control event, the written consent of such Initial Shareholder will no longer be required for the approval of any Shareholder Reserved Matter and, in addition:

(i) if such Initial Shareholder owns at least [***] of Company Interest as of the effective date of such change of control, then such Initial Shareholder will thereafter be deemed to own less than [***] of Company Interest but at least [***] of Company Interest pursuant to Section 7.2(c)(ii) and such Initial Shareholder shall have the right to nominate [***] Directors; and

(ii) if such Initial Shareholder owns less than [***] of Company Interest as of the effective date of such change of control, then such Initial Shareholder shall have the right to nominate [***].

(c) For purposes of this Section 14.20, “control” shall have the meaning set forth in Section 1.1.

14.21 Aggregation of Company Securities. All Company Securities held or acquired by Affiliates of a Shareholder shall be aggregated among such Shareholder and its Affiliates for the purpose of determining the availability of any rights under this Agreement and such Affiliates may apportion such rights as among themselves in any manner they deem appropriate. Notwithstanding anything to the contrary contained in this Agreement, the Company Securities held or acquired by the SBG Class A Shareholder shall be aggregated with the Company Securities held or acquired by the SBG Shareholder for purposes of the preceding sentence.

14.22 Additional Shareholders. Notwithstanding anything to the contrary contained herein, if (i) the Company issues additional Company Securities after the Closing Date, (ii) there is any Transfer of Company Securities pursuant to Section 8 or (iii) a Shareholder allocates any portion of preemptive rights to an Affiliate in accordance with Section 6.2(a), as a condition to such issuance or Transfer of Company Securities or allocation, the Company shall require that such purchaser, Transferee or Affiliate become a party to this Agreement by executing and delivering a joinder agreement to this Agreement, in form and substance reasonably acceptable to both Initial Shareholders and the Company (“Joinder Agreement”), agreeing to be bound by and subject to the terms of this Agreement as Shareholder hereunder. Each Person that so executes and delivers a Joinder Agreement pursuant to the preceding sentence shall thereafter be deemed a Shareholder for all purposes under this Agreement. In addition, each Shareholder agrees to take all such actions as may be necessary to amend the Transaction Documents, the Articles, the Shareholder Register and the Commercial Register in connection with any issuance of additional Company Securities or Transfer of Company Securities to reflect such changes to such documents as may be mutually agreed by the Shareholders.

14.23 Conversion of Class A Stock. Following the [***]-year anniversary of the issuance of shares of Class A Stock, in the event a Shareholder of shares of Class A Stock desires to exercise its right to convert such shares into shares of Common Stock as set forth in the Articles, then, in addition to complying with any requirements under the Articles, such Shareholder shall deliver a written notice to each of the Initial Shareholders of its intent to so convert by no later than the time such notice is delivered to the Company. Upon delivery of such notice, each of the Initial Shareholders and the Company shall take such actions as may be necessary to give effect to such conversion as promptly as practicable. In addition, the Initial Shareholder receiving such notice shall have the right to convert its shares of Class A Stock into shares of Common Stock upon the same terms and conditions set forth in the notice by issuing a cross-notice to such other Shareholder and the Company.

14.24 Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be an original, but all of which together shall constitute one instrument.

(Signature page follows)

IN WITNESS WHEREOF, the parties hereto have caused their respective duly authorized Representatives to execute and deliver this Agreement as of the Effective Date.

SOFTBANK GROUP CORP.

By: /s/ Masayoshi Son
Name: Masayoshi Son
Title: Representative Director, Corporate Officer,
Chairman & CEO

SOFTBANK GROUP JAPAN CORPORATION

By: /s/ Masayoshi Son
Name: Masayoshi Son
Title: Representative Director

TEMPUS AI, INC.

By: /s/ Jim Rogers
Name: Jim Rogers
Title: Treasurer and Chief Financial Officer

PEGASOS CORP.

By: /s/ Ippei Mimura
Name: Ippei Mimura
Title: Representative Director

Signature Page to Joint Venture Agreement

Shareholder Reserved Matters

Initial Business Plan Principles

[**]

Exhibit A

Form of Articles of Incorporation

(See attached.)

Exhibit B

Form of License Fees Payment Timing Confirmation

(See attached.)

Exhibit C

Form of SBG Subscription Agreement

(See attached.)

Exhibit D-1

Form of Tempus Common Stock Subscription Agreement

(See attached.)

Exhibit D-2

Form of Tempus Class A Stock Subscription Agreement

(See attached.)

CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [*], HAS BEEN OMITTED BECAUSE TEMPUS AI, INC. HAS DETERMINED THE INFORMATION (I) IS NOT MATERIAL AND (II) WOULD LIKELY CAUSE COMPETITIVE HARM TO TEMPUS AI, INC. IF PUBLICLY DISCLOSED.**

Data License Agreement

This Data License Agreement (the “Agreement”) is entered into as of this 18th day of May, 2024 (the “Effective Date”) by and between Tempus AI, Inc., with its principal place of business at 600 West Chicago Ave., Suite 510, Chicago, IL 60654 (“Tempus”) and Pegasos Corp., a Japanese corporation (“Client”). Tempus and Client are sometimes referred to herein individually as a “Party” and collectively, as the “Parties.”

Background

Tempus is a precision medicine company dedicated to improving healthcare by using its technology to support research and discovery. Tempus has curated a proprietary database of de-identified data for use in research and development activities.

Client is a company that shares Tempus’ mission of advancing precision medicine, including through (a) the licensing of de-identified data to biopharmaceutical companies, life sciences companies, and other healthcare researchers; (b) building algorithmic products that produce insights and commercializing the insights; and (c) building foundation models and products or services that leverage the models, all of (a)-(c) in Japan (the “AI Initiative”), and in furtherance of that mission, Client would like to license data from Tempus.

Tempus and Client are entering into this Agreement in connection with a certain Joint Venture Agreement dated as of the Effective Date by and among Tempus, Client and SoftBank Group Corp. (the “JV Agreement”) and this Agreement is made pursuant to and is subject to the terms and conditions of the JV Agreement.

Agreement

In consideration of the mutual promises described below, the Parties agree as follows:

1. **Definitions.** The following terms, whether used in the singular or plural, have the meanings set forth below:
 - a. “Acceptance Period” has the meaning assigned to it in Section 2.f.iii (Acceptance of Licensed Data).
 - b. “Additional Records Batch” has the meaning assigned to it in Section 2.d (Purchase of License to Additional Records Batch).
 - c. “Affiliate” means a legal entity that is controlled by or under common control with the Party, where “control” means possession, directly or indirectly, of the power to direct or cause the direction of the Party’s management or policies, whether through the ownership of securities or other ownership interests, by contract, or otherwise. For the avoidance of doubt, neither Tempus nor its subsidiaries nor SoftBank Group Corp. nor its subsidiaries will be considered an Affiliate of Client hereunder.
 - d. “Agreement” has the meaning assigned to it in the caption above.
 - e. “AI Initiative” has the meaning assigned to it in the Background Section above.
 - f. “Analytical Services” has the meaning assigned to it in Section 4.b (Analytical Services).

- g. “Analytical Services Results” means Results created by Tempus and delivered to Client pursuant to this Agreement.
- h. “Applicable Law” means any and all laws, statutes, codes, ordinances, orders, rules, rulings, directives, and regulations of any kind whatsoever of any governmental authority within the relevant jurisdiction applicable to the activities under this Agreement.
- i. “Approved Supplemental Work” has the meaning assigned to it in Section 2.c.ii (Enhancements to Substituted-In Records).
- j. “Authorized Users” means employees or contractors of Client or Client’s Affiliates, provided that each user will be a named individual who is subject to all applicable terms of this Agreement.
- k. “Business” means the purposes of performing clinical sequencing for patients, organizing patient data and operating a real-world data business, in each case, solely for and within the Territory (as defined below) and within the Field (as defined below).
- l. “Business Day” means any day other than Saturday, Sunday, or any day that banks located in (a) Tokyo, Japan or (b) Chicago, U.S., are required to be closed. Whenever this Agreement refers to a number of days, such number will refer to calendar days unless Business Days are specified.
- m. “Calendar Quarter” means each successive period of three (3) consecutive calendar months ending on March 31, June 30, September 30, or December 31; provided, however that (a) the first Calendar Quarter of the Term will extend from the Effective Date to the first to occur of March 31, June 30, September 30, or December 31 of the calendar quarter in which the Effective Date falls; and (b) the last Calendar Quarter of the Term will end upon the expiration or termination of this Agreement.
- n. “Client” has the meaning assigned to in the caption above.
- o. “Client Indemnitee” has the meaning assigned to it in the Section 8.b (Tempus Indemnification Obligations).
- p. “Commercially Reasonable Efforts” means, with respect to a Party’s obligations under this Agreement, the carrying out of such obligations or tasks with a level of efforts and resources consistent with the efforts and resources that an entity similarly situated to such Party in the respective country or territory, including with similar size and resources, for a similar obligation or task in light of the relative value and importance associated with the performance of such obligations or tasks.
- q. “Confidential Information” has the meaning assigned to it in Section 7.b (Non-disclosure).
- r. “Control” means, with respect to any Licensed Data, possession of the ability (whether by sole or joint ownership, license or otherwise, other than pursuant to this Agreement) to grant a license, sublicense, access or other right in, to or under such Licensed Data, without violating the terms of any agreement with a third-party, violating any Applicable Law, or resulting in a payment obligation to such third-party.
- s. “Covered Recipient” means a physician licensed to practice in the U.S. or a U.S. teaching hospital.

- t. “Customary De-Identified Record” means a De-Identified Record that Client may use solely for the Permitted Customary De-Identified Record Purpose.
- u. “Data Access and Preparation Services” has the meaning assigned to it in Section 2.b.ii (Data Access and Preparation Services).
- v. “Data Category” means a category of data included in a Record in accordance with Tempus’ then-current standard practices. Data Categories [***] may include [***].
- w. “De-Identified Record” means a Record that has been de-identified according to the standard set forth in U.S. law under 45 CFR 164.514(a) and (b) of the implementing regulations of the U.S. Health Insurance Portability and Accountability Act (“HIPAA”) of 1996. A De-Identified Record may be either an Unrestricted De-Identified Record or a Customary De-Identified Record.
- x. “Disclosing Party” has the meaning assigned to it in Section 7.b (Non-disclosure).
- y. “Effective Date” has the meaning assigned to it in the caption above.
- z. “End User Generated Results” means Results created by Client based, in whole or in part, on Licensed Data.
- aa. “Enhanced Substituted-In Record” has the meaning assigned to it in Section 2.c.ii (Enhancements to Substituted-In Records).
- bb. “Exchange Rate” means, for any payment under this Agreement the exchange rate published by Mizuho Bank, Ltd. under the heading “TTS” at <https://www.mizuohobank.co.jp/market/quote.html> as of the applicable payment date.
- cc. “Extended Substitution Term” means the day commencing on 00:01 Central Time on [***] and ending at 00:00 Central Time on [***].
- dd. “Field” means the diagnosis, prevention, treatment, prophylaxis, management or cure of disease and disability in humans or other healthcare-related initiatives, including the development, commercialization and sale of data and other AI-based products and services related to the foregoing.
- ee. “Foundational Data” has the meaning assigned to it in Section 3.e (Licensed Data Exclusion).
- ff. “Indemnified Party” has the meaning assigned to it in the Section 8.c (Indemnification Procedure).
- gg. “Indemnifying Party” has the meaning assigned to it in the Section 8.c (Indemnification Procedure).
- hh. “Initial Records Batch” has the meaning assigned to it in Section 2.a (Initial Records Batch).
- ii. “IP License Agreement” means that certain Intellectual Property License Agreement made and entered into as of the Effective Date by and between Tempus and Client.
- jj. “JV Agreement” has the meaning assigned to it in the caption above.
- kk. “License Term” means [***].

- ll. “Licensed Data” means (a) the Initial Record Batch; (b) the Additional Record Batch; and (c) any De-Identified Records owned by Tempus other than those in (a) and (b) that is described and licensed to Client in an Order Form executed by both Parties, and including Licensed Data Updates to any of the foregoing. Licensed Data excludes Foundational Data (as defined below).
- mm. “Licensed Data Services” has the meaning assigned to it in Section 4 (Licensed Data Services).
- nn. “Losses” has the meaning assigned to it in Section 8.a (Client Indemnification Obligations).
- oo. “Modification Services” has the meaning assigned to it in Section 4.c (Modification Services and Services for Customers of Client).
- pp. “Order Form” means a form by which the Parties specify a Licensed Data cohort, applicable Licensed Data Services (if any), and other applicable terms and conditions. Executed Order Forms are incorporated into and made part of this Agreement.
- qq. “Party” has the meaning assigned to it in the caption above.
- rr. “Payment or Transfer of Value” means a payment or transfer of value as defined in the U.S. Physician Payment Sunshine Act (42 USC § 1320a-7h(e)) and implementing regulations (42 CFR § 403.900 et seq.).
- ss. “Permitted Customary De-Identified Record Purpose” means, with respect to a Customary De-Identified Record, the permitted purpose set forth for such Customary De-Identified Record in the applicable Order Form. As of the Effective Date, the contemplated Permitted Customary De-Identified Record Purpose is [***] (collectively, the “Permitted Uses Exclusions”).
- tt. “Permitted Unrestricted De-Identified Record Purpose” means, with respect to an Unrestricted De-Identified Record, to conduct the Business in the Field and in the Territory, in each case, consistent with this Agreement (including any applicable Order Form), the IP License Agreement and Applicable Law.
- uu. “Permitted Uses Exclusions” has the meaning assigned to it in Section 1.ss (“Permitted Customary De -Identified Record Purpose”).
- vv. “Receiving Party” has the meaning assigned to it in Section 7.b (Non-disclosure).
- ww. “Record” means a [***].
- xx. “Records Substitution” has the meaning assigned to it in Section 2.c.i (Records Substitution).
- yy. “Rejected Data” has the meaning assigned to it in Section 2.f.iii (Acceptance of Licensed Data).
- zz. “Results” means analyses, summaries, reports, visualizations, and other information created with or based on Licensed Data during the License Term, so long as such Results do not reproduce the Licensed Data other than as permitted in accordance with the Permitted Customary De-Identified Record Purpose or the Permitted Unrestricted De-Identified Record Purpose.
- aaa. “Sales Agent Record” has the meaning assigned to it Section 2.d (Purchase of License to Additional Records Batch).

- bbb. “Specifications” has the meaning assigned to it in Section 2.f.iii (Acceptance of Licensed Data)
- ccc. “Substituted-In Record” has the meaning assigned to it in Section 2.c.i (Records Substitution).
- ddd. “Substituted-Out Record” has the meaning assigned to it in Section 2.c.i (Records Substitution).
- eee. “Substitution Cap” has the meaning assigned to it in Section 2.c.i (Records Substitution).
- fff. “Substitution Term” means the day commencing immediately after the “**Closing**” (as defined in the JV Agreement) and ending at 00:00 Central Time on [***].
- ggg. “Tax” or “Taxes” means (a) any taxes, assessments, fees, including income, profits, gross receipts, net proceeds, sales, alternative or add on minimum, ad valorem, turnover, property, personal property (tangible and intangible), environmental, stamp, leasing, lease, user, duty, franchise, capital stock, transfer, registration, license, withholding, social security (or similar), unemployment, disability, payroll, employment, social contributions, fuel, excess profits, occupational, premium, windfall profit, severance, estimated, or other charge of any kind whatsoever, including any interest, penalty, or addition thereto, whether disputed or not and (b) any liability for the payment of any amounts of the type described in clause (a) as a result of the operation of law.
- hhh. “Technical Services” has the meaning assigned to it in Section 4.a (Technical Services).
- iii. “Tempus” has the meaning assigned to it in the caption above.
- jjj. “Tempus Indemnitee” has the meaning assigned to it in Section 8.a (Client Indemnification Obligations).
- kkk. “Tempus Platform” means the proprietary real world data libraries and associated systems and technology owned by Tempus.
- lll. “Tempus Technology” has the meaning assigned to it in the IP License Agreement.
- mmm. “Term” has the meaning assigned to it in Section 10.a (Term).
- nnn. “Territory” means Japan.
- ooo. “Unrestricted De-Identified Record” means a De-Identified Record that Client may distribute, sell, sublicense, or otherwise transfer access to and its interest in to a third-party, subject to the terms and conditions of this Agreement.

Capitalized terms that are used but not defined below have the meanings assigned in the JV Agreement.

2. Details About Licensed Data and Collaboration.

- a. *Initial Records Batch.* Within [***] Days following the Effective Date, Tempus will grant and hereby does grant Client the licenses described in Section 3.a.i (License Grant) to [***] unique Unrestricted De-Identified Records (such Unrestricted De-Identified Records comprising the “Initial Records Batch”) meeting inclusion criteria defined by Client and Tempus and consistent with the standard data filters available in the Tempus Platform [***]. In the event that Client does not timely pay Tempus the fees for such license as set forth in Section 6.b (Upfront Payment), Tempus may revoke access to such Records until such fees are paid.

- b. *Initial Setup Period.*
- i. *Initial Data Access.* During the period commencing on the Effective Date until the Closing (“Initial Setup Period”), Tempus will provide access to the Initial Records Batch and other Licensed Data (if applicable) to Client to the extent necessary for Client to receive the data access and preparation services provided in Section 2.b.ii (Data Access and Preparation Services). During the Initial Setup Period, (1) Tempus employees seconded to Client will access the Initial Records Batch and other Licensed Data (if applicable) to provide such services, provided such employees will be subject to reasonable confidentiality restrictions, and (2) Client will have sole discretion if and to what extent it grants such access to its employees, and will provide advance written notice to Tempus upon such election.
 - ii. *Data Access and Preparation Services.* During the Initial Setup Period, Tempus will provide Client with certain data access and preparation services to assist Client in preparing for and setting up the Business in the Territory, including [***], and (4) any other services reasonably necessary or useful to enable Client to access and use the Initial Records Batch following the Closing (clause (1) – (4) collectively, “Data Access and Preparation Services”).
- c. *Substitution and Enhancement Rights for the Initial Records Batch.*
- i. *Records Substitution.* During the Substitution Term and the Extended Substitution Term (if applicable) and up to the Substitution Cap, Client may request that Tempus substitute an Unrestricted De-Identified Record then included in the Initial Records Batch (such substituted-out Unrestricted De-Identified Record, the “Substituted-Out Record”) with another Unrestricted De-Identified Record then not included in the Initial Records Batch (such substituted-in Unrestricted De-Identified Record, the “Substituted-In Record”) and the foregoing process, the “Records Substitution”) and Tempus will use reasonable best efforts to comply with such request within [***] Days of receiving Client’s request, so long as the Unrestricted De-Identified Record that Client is seeking to substitute (A) has not actually been licensed or otherwise made available by or on behalf of Client to a non-Affiliate third-party as of the substitution or (B) if any such access was provided, such access can be timely revoked in accordance with Client’s obligations under this Agreement as of the substitution. The Parties will perform the Records Substitution in accordance with the then-current Tempus standard process for provisioning and deprovisioning Licensed Data and all Substituted-In Records will meet the then-current inclusion criteria as defined by Client and Tempus. For the avoidance of doubt, following a Records Substitution, the Substituted-Out Record will no longer be Licensed Data and the Substituted-In Record will be Licensed Data, subject to the same terms as had previously applied to the Substituted-Out Record. Parties acknowledge that each Substituted-Out Record is non-public information of Tempus and subject to the terms and conditions in Section 7.b (Non-disclosure). Immediately upon receipt of the Substituted-In Record, the License Term for the Substituted-Out Record will terminate. Each time there is a Records Substitution, the then-current count for Records Substitution will be incremented by one (1) such that over the Substitution Term and the Extended Substitution Term (if applicable) Client will only be allowed to substitute a maximum of [***] Records

(such maximum amount, the "Substitution Cap"). For the avoidance of doubt, any update or enhancement for an Unrestricted De-Identified Record in the Initial Records Batch provided by Tempus to Client will not constitute a Records Substitution and Tempus will provide such update or enhancement for the fees set forth in Section 6.e (Fees for Updates to Licensed Data).

- ii. *Enhancements to Substituted-In Records.* Client may request that any Substituted-In Record to be provided in a Records Substitution be modified to include one or more additional Data Categories (such modified Substituted-In Record, an "Enhanced Substituted-In Record") and Tempus will use reasonable best efforts accommodate such request to the extent such information is available within the Tempus Platform. If Tempus determines, at its sole discretion, that it needs to perform supplemental work, including, without limitation, additional data curation, to provide an Enhanced Substituted-In Record, Tempus will inform Client prior to performing any such supplemental work. The Parties will enter into an Order Form to document the terms of such supplemental work (such work, the "Approved Supplemental Work") and any Approved Supplemental Work will be subject to Section 6.d (Fees for Records Substitution).
- d. *Purchase of License to Additional Records Batch.* In each instance that the Board (as defined in the JV Agreement) authorizes purchase of licenses to additional Unrestricted De-Identified Records as set forth in Section 9.6 of the JV Agreement, Tempus will grant Client the license described in Section 3.a.i (License Grant) to the specified quantity of additional unique Unrestricted De-Identified Records (each such set of additional Unrestricted De-Identified Records, an "Additional Records Batch") upon documentation of such license in an Order Form and receipt of the fees set forth in Section 6.c (Fees for Additional Records Batch). In addition, for each instance that the Board authorizes purchase of licenses to additional Unrestricted De-Identified Records as set forth in Section 9.6 of the JV Agreement in connection with Client acting as a sales agent for Tempus' datasets within the Territory (each such Record, a "Sales Agent Record"), Tempus will grant Client the license described in Section 3.a.i (License Grant) to the specified quantity of additional unique Sales Agent Records upon documentation of such license in an Order Form and receipt of the fees set forth in Section 6.h (Fees for Sales Agent Records). In addition to all other applicable license and other terms under this Agreement, for each Sales Agent Record, [***].
- e. *Purchase of License to Customary De-Identified Records.* Client may, at its sole discretion, request to purchase a license to Customary De-Identified Records from Tempus and Parties will execute an Order Form for each separate request.
- f. *Delivery and Acceptance of Licensed Data.*
 - i. *Delivery of Initial Records Batch.* Tempus will deliver the Initial Records Batch to Client as soon as reasonably practicable following the Effective Date, but in any event, no later than [***] Days following the Effective Date. [***].
 - ii. *Delivery of Other Licensed Data.* Tempus will deliver all Licensed Data other than the Initial Records Batch in accordance with a delivery process mutually agreed upon in writing by the Parties and set forth in the applicable Order Form (if applicable).
 - iii. *Acceptance of Licensed Data.* Client will have [***] calendar days from the delivery of Licensed Data (or in the case of the Initial Records Batch, [***] calendar days from the

Closing) (the “Acceptance Period”) to determine whether Licensed Data conforms to the terms set forth in Section 2.g.i (Most Recent Data), Section 2.g.ii (Completeness of De-Identified Records), Section 2.g.iv (Minimum Quality) and terms of the Order Form (if applicable) (collectively, the “Specifications”). If Client’s qualified personnel determines that the Licensed Data does not conform to the Specifications, then Client may reject the Licensed Data (such rejected Licensed Data, the “Rejected Data”) by providing Tempus with written notice and specifying the non-conformance. Promptly following the receipt of such notice from Client, Tempus will, with respect to each De-Identified Record of the Rejected Data, either (a) correct the non-conformance of that particular De-Identified Record or (b) substitute with a different conforming De-Identified Record that satisfies the inclusion criteria associated with the original De-Identified Record. Tempus will have sole discretion over whether to perform (a) or (b) of the foregoing and such performance will be at no additional cost to Client. Tempus’ performance of clause (a) or (b) will be Client’s sole remedy for Rejected Data. For clarity, nothing in this Section 2.f.iii (Acceptance of Licensed Data) will limit Client’s rights and remedies in the event of Tempus’ failure to perform either (a) or (b) with respect to Rejected Data.

- iv. *Specific Performance.* If Tempus and Client, each acting in good faith, are unable to come to a decision in respect of any dispute regarding this Section 2.f within [***] Days of such matter first being raised, and such matter may materially affect the ability of Client to engage in the Business or to conduct the Business in an efficient manner, then (a) such matter will first be referred to senior executives of Tempus and (b) if such senior executives are unable in good faith to resolve the matter on an amicable basis within [***] Days, then solely with respect to a request for specific performance or injunctive relief, and not with respect to any other requested remedy, Tempus consents to Client making an application to any court of competent jurisdiction seeking specific performance or injunctive relief. All other aspects of any dispute or other remedies sought under this Agreement are subject to the requirements set forth in Section 14.3 (Dispute Resolution) of the JV Agreement.

g. *Performance Obligations.*

- i. *Most Recent Data.* Tempus will ensure that each Unrestricted De-Identified Record included in the Licensed Data is selected from the most up-to-date data hosted on the Tempus Platform. The Initial Record Batch will come from [***]. The Parties acknowledge that, as of the Effective Date, the Tempus Platform includes the following data libraries and that Tempus has the sole right, but the not the obligation, to update the Tempus Platform at any time during the Term:

[***]	[***]	[***]	[***]	[***]
[***]	[***]	[***]	[***]	[***]

- ii. *Completeness of De-Identified Records.* Tempus will use reasonable best efforts to ensure that each De-Identified Record of the Licensed Data comprises all of the Data Categories of data then currently available to Tempus’ third-party customers with respect to such De-Identified Record as of the date such De-Identified Record is made available to Client. [***].
- iii. *Updates to Licensed Data.* If, during the Term but after the Closing, Tempus receives supplemental data within the Data Categories corresponding to any De-Identified Record

included in the Licensed Data, Tempus will, at its sole discretion, provide Client either (a) the supplemental data and an identification of the corresponding De-Identified Record to which the supplemental data relates or (b) an updated De-Identified Record incorporating the supplemental data ((a) and (b) collectively, the “Licensed Data Updates”) for the fees set forth in Section 6.e (Fees for Updates to Licensed Data). Tempus will provide Client all Licensed Data Updates on a mutually agreeable schedule, and in any event at least [***].

- iv. *Minimum Quality.* Tempus will use reasonable best efforts to ensure that, as of the date of provision of De-Identified Records to Client, the De-Identified Records of the Licensed Data provided to Client are the most recent and up-to-date De-Identified Records available and meet at least the same level of quality as that of De-Identified Records provided by Tempus to any other third-party customers or partners.
- v. *Co-operation for AI Initiative.* The Parties acknowledge that, as a part of the AI Initiative, Client intends to secure strategic partnerships with biopharmaceutical companies, life science companies, and other healthcare researchers in and for Japan to commercially exploit Unrestricted De-Identified Records included in Licensed Data and other proprietary data generated by Client. The Parties will co-operate in good faith to secure such partnerships, provided that, such cooperation does not require Tempus to grant any additional rights or licenses to Licensed Data outside of the scope of a fully executed and mutually agreed upon Order Form and provided further that Tempus will cooperate with Client in good faith to enter into fully executed and mutually agreed upon Order Forms to provide Licensed Data Services to Client’s customers in furtherance of the AI Initiative (or to provide Licensed Data Services to Client’s customers under existing Order Forms entered into by Client) and such services will be subject to Section 6.d (Fees for Records Substitution and Licensed Data Services).
- vi. *General Performance Standards.* Each Party will conduct the activities assigned to it under this Agreement (a) with reasonable skill and care, (b) in accordance with current scientific and technical standards, and (c) pursuant to its respective standard operating procedures.
- vii. *Tempus Withdrawal from Client.* If, at any time during the Term, Tempus is no longer a shareholder in Client, then from such date and thereafter, Tempus will have no further obligation to provide any Licensed Data, including any updates or enhancement, or any of the Licensed Data Services set forth in Section 4 (Licensed Data Services).

3. License Grants and Acknowledgements. Subject to the other terms and conditions in this Agreement, Tempus grants Client the following licenses with respect to the Licensed Data:

- a. *Unrestricted De-Identified Record.*
 - i. *License Grant.* During the License Term, subject to the terms and conditions of this Agreement, Tempus grants Client a limited, non-exclusive, and transferable license, with the right to sublicense (solely in accordance with Section 3.a.ii (Sub-Licensing Conditions)), [***], solely in and for use in the Field in the Territory and for the Permitted Unrestricted De-Identified Record Purpose. For the avoidance of doubt, (1) title to the Records remains with Tempus and (2) during the Initial Setup Period, Client will exercise its rights granted under Section 3.a.i (License Grant) in accordance with Section 2.b.i (Initial Data Access).

- ii. *Sub-Licensing Conditions.* Client will have the right to sublicense its rights granted under Section 3.a.i (License Grant) to any third-party only through a single tier and will not grant any sublicensee any right to further sublicense any Unrestricted De-Identified Record. Client will ensure that all sublicenses granted under the license granted under Section 3.a.i (License Grant) will be (A) in writing, (B) subject to, and consistent with, the terms and conditions of this Agreement, including without limitation, the terms and conditions under Section 5 (Use of Licensed Data) and Section 7 (Privacy, Confidentiality, and Intellectual Property), and (C) with respect to Sales Agent Records only, subject to the payment of fees by the sublicensee or customer and in accordance with Section 6.h (Fees for Sales Agent Records) . Upon Client’s request, Tempus will provide Client with its then-current standard license fees for such Records. Client remains responsible for the acts and omissions of its sublicensees, and any act or omission that would be a breach under this Agreement if done by Client will be a breach of this Agreement by Client.
 - b. *Customary De-Identified Record.* During the License Term, subject to the terms and conditions of this Agreement, Tempus grants Client a limited, non-exclusive, revocable, non-transferable license in the Field in the Territory, without the right to sublicense, for Authorized Users to [***], solely in and for use in the Field in the Territory and for the applicable Permitted Customary De-Identified Record Purpose.
 - c. *Analytical Services Results.* Tempus grants Client a limited, non-exclusive, irrevocable, transferable, perpetual license, with the right to sublicense, to use Analytical Services Results for its own Business purposes. The Analytical Services Results will be subject to the terms and conditions in Section 7.b (Non-disclosure).
 - d. *End User Generated Results.* To the extent Client creates End User Generated Results during the License Term, Tempus acknowledges and agrees that Client may continue using the End User Generated Results for its own Business purposes during and after the expiration or termination of the License Term, so long as such End User Generated Results do not reproduce the Licensed Data [***].
 - e. *Licensed Data Exclusion.* In connection with Client’s right to access and use Tempus Technology as granted under the IP License Agreement, Client will have access to certain proprietary data of Tempus necessary for the operation of the Tempus Technology (such data, the “Foundational Data”). [***].
 - f. *No Implied Licenses.* Except as expressly provided in this Agreement, neither Party will be deemed to have granted the other Party any license or other right as to any data of such Party. For clarity, Client is not granted any rights to any Record other than the Licensed Data licensed hereunder.
4. **Licensed Data Services.** Tempus will provide the services below to assist Client with using, accessing, understanding, and modifying the Licensed Data during the Term of this Agreement, in each case, as and to the extent set forth in an Order Form hereunder (such services, the “Licensed Data Services”).
- a. [***].
 - b. [***].
 - c. [***].

5. Use of Licensed Data. The following terms apply to all Licensed Data under this Agreement.

- a. *Restrictions.* Client agrees to the following terms on its behalf and on behalf of all Affiliates and Authorized Users:
- i. Client will implement rigorous data access controls for Authorized Users. Client will use reasonable best efforts to require Authorized User to acknowledge that the Authorized User has reviewed, understands, and will comply with the terms of this Agreement.
 - ii. Client is responsible for the acts and omissions of all Authorized Users.
 - iii. Any reproduction, display, disclosure, or publication of Results obtained from the use of Licensed Data (or the Licensed Data itself) must include appropriate attribution to Tempus, which attribution to Tempus should be as mutually agreed. Reproduction of any Licensed Data that is not an Unrestricted De-Identified Record for any purpose other than the Permitted Customary De-Identified Record Purpose by Client requires Tempus' prior written consent.
 - iv. Client will not re-identify the Licensed Data as to patient, provider, or practice and will ensure that the Licensed Data is not re-identified. Client will not, and will not permit any third-party to, contact any individual whose information may be included in the Licensed Data. If Client combines or commingles the Licensed Data with any other data, Client is responsible for ensuring that such data remains de-identified pursuant to HIPAA.
 - v. Client will maintain a reasonable internal governance procedure that prohibits and is designed to avoid unintentional or inadvertent re-identification.
 - vi. Client will not remove or alter any notice of confidentiality, copyright, trademark, logo or other notice of ownership, origin, or confidentiality in any report, document, or copy of the Licensed Data.
 - vii. Client will not access or use Licensed Data for any purpose not permitted by this Agreement.
 - viii. Client will not re-sell, transfer or otherwise provide access to any Licensed Data that is not an Unrestricted De-Identified Record to any third-party who is not an Authorized User without prior written permission from Tempus.
 - ix. Client will act in an ethical and responsible manner when accessing and using Licensed Data.
 - x. Client agrees that Tempus does not endorse any academic, scientific, or public presentations, or abstracts, posters, or manuscripts, and Client will not attempt to indicate any such endorsement.
 - xi. Client agrees to immediately return or destroy Licensed Data, at Tempus' option, at the conclusion of the License Term or expiration or termination of the Agreement and provide written certification of destruction (if applicable).

b. *Compliance.*

- i. Tempus and Client will comply with all Applicable Laws and industry-standard guidelines when carrying out activities under this Agreement, including, to the extent applicable, all Applicable Laws in Japan, securities laws, antitrust laws, HIPAA, the U.S. Food and Drug Administration (FDA) Guidance on Industry-Supported Scientific and Educational Activities, the U.S. Federal Food, Drug, and Cosmetic Act and associated regulations, U.S. federal and state anti-kickback laws and guidance, the Council of Medical Specialty Societies (CMSS) Code of Interactions with Companies, the American Medical Association Code of Medical Ethics and associated opinions, policies adopted by the FDA relating to industry-sponsored educational activities, the Accreditation Council for Continuing Medical Education (ACCME) Standards for Commercial Support, the Pharmaceutical Research and Manufacturers of America (PhRMA) Code on Interactions with Healthcare Professionals, and the ICMJE Recommendations for publication authorship.
- ii. The funds provided under this Agreement are not being given in exchange for any explicit or implicit agreement to purchase, prescribe, recommend, influence or provide favorable formulary status for Client's products or services. This Agreement is not for the purpose of promoting any product, service, or company. Client will not and will ensure that Client's Affiliates and Authorized Users do not, offer any inducements to Tempus, any of its Affiliates, or any health care providers relating to this Agreement.
- iii. Tempus acknowledges that any direct or indirect Payments or Transfers of Value to Covered Recipients are subject to transparency reporting requirements, including disclosure on Client's website. Tempus and Client will not, and Client will ensure that Client's Affiliates do not, knowingly make any indirect or direct Payment or Transfer of Value to a Covered Recipient on behalf of Client in connection with this Agreement without the other Party's consent and prior written approval. Client will report all Payments or Transfers of Value to U.S. Covered Recipients according to a centrally managed, pre-set rate structure based on a fair market value analysis conducted by Client and in accordance with Applicable Law. Tempus and Client agree that the license to Licensed Data or any other services or products described in agreements executed contemporaneously with this Agreement do not give rise to or constitute a Payment or Transfer of Value to a Covered Recipient.
- iv. Tempus and Client and their respective Affiliates, representatives, agents and employees will comply with the U.S. Foreign Corrupt Practices Act, as amended, the UK Bribery Act of 2010, and any other applicable anti-corruption laws for the prevention of fraud, racketeering, money laundering or terrorism, and will not knowingly take any action that will, or would reasonably be expected to, cause the other Party or its Affiliates to be in violation of any such laws or policies.
- v. Neither Party has received or been offered any illegal or improper payment, bribe, kickback, gift, or other item of value from an employee or agent of the other Party in connection with this Agreement. The Parties intend for their relationship and interactions to comply with the following: (a) the U.S. federal anti-kickback statute (42 U.S.C. § 1320a-7b(b)) and the associated safe harbor regulations; and (b) the limitation on certain physician referrals (Stark Law) (42 U.S.C. § 1395nn). Accordingly, no part of any remuneration provided under this Agreement or any other agreement between the Parties is a prohibited

payment in exchange for recommending or arranging for the referral of business or the ordering of items or services, or otherwise intended to induce illegal referrals of business.

- c. *Regulatory Filings.* Client may disclose Analytical Services Results, End User Generated Results or Results for regulatory purposes; *provided, however,* for the avoidance of doubt, that Client agrees to consult Tempus and obtain Tempus' written consent prior to any disclosure to a regulatory authority of a reproduction of the Licensed Data itself or an excerpt thereof. Given uncertainty in the regulatory environment regarding the use of Real World Data for regulatory purposes, Licensed Data and any Results derived therefrom may not be suitable for a particular purpose. Tempus will use Commercially Reasonable Efforts to work with Client and regulatory authorities to address any questions or issues regarding such data; however, such work will be subject to separate fees and a separate Order Form.
- d. *Security Incident Reporting.* Each Party agrees to notify the other Party promptly, but in no event later than [***] Days after becoming aware of the occurrence of: (i) a potential security breach involving Licensed Data; (ii) re-identification of any of the Licensed Data; (iii) a complaint related to a request for access to the Licensed Data; or (iv) any inquiry, investigation, audit, or government enforcement action related to the Licensed Data. If Client or any of Client's Affiliates becomes legally compelled to disclose any Licensed Data, then to the extent permitted by Applicable Law, Client will notify Tempus as soon as practical, but in any event within [***] Days of learning of such requirement, so that Tempus may seek a protective order or other appropriate remedy. If any of the events set out in this Section occurs, Client agrees to cooperate and cause Client's Affiliates to cooperate with Tempus and take any actions reasonably requested by Tempus to minimize the re-identification risk and potential damage resulting from the event.
- e. *Non-Exclusivity.* Subject to Section 9.2 of the JV Agreement, this is a non-exclusive agreement and nothing in this Agreement will prevent Tempus from (i) making available to other customers the same or substantially similar services and licenses, or (ii) making available to other Tempus customers custom data sets that are the same or similar to the Licensed Data, so long as none of the foregoing include use of Client's Confidential Information. Client acknowledges that Tempus' or Tempus licensees' use of Licensed Data may result in the same or similar outcomes, conclusions, reports, and other results. Tempus acknowledges that Client retains the right to utilize other vendors or partners in the provision of similar data, technologies, products or services as those provided by Tempus under this Agreement.
- f. *Additional Tempus Representations.* Tempus represents and warrants that Tempus has obtained all rights, licenses, consents and permissions necessary in order to for Client to use and (if and where relevant) to authorize Client's customers to use, the Licensed Data in accordance with this Agreement. The Licensed Data, as of the date any Licensed Data is made available to Client, does not, to Tempus' knowledge infringe or violate the rights of any third party, including, without limitation, any intellectual property rights, rights of privacy or rights in confidential information.
- g. *NO OTHER REPRESENTATIONS OR WARRANTIES. EXCEPT AS EXPRESSLY PROVIDED:*
 - i. TEMPUS DISCLAIMS ANY AND ALL EXPRESS, IMPLIED, STATUTORY, AND OTHER WARRANTIES AND REPRESENTATIONS OF ANY KIND, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUALITY OF INFORMATION, OR TITLE.

- ii. EXCEPT AS SET FORTH IN THE SPECIFICATIONS, TEMPUS MAKES NO REPRESENTATIONS OR WARRANTIES ABOUT THE SUITABILITY OR ACCURACY OF ANY SERVICES, THE LICENSED DATA, OR ANY OTHER TEMPUS MATERIALS OR TEMPUS TECHNOLOGY. TEMPUS USES DATA PROVIDED TO TEMPUS BY THIRD PARTIES THAT HAS BEEN DE-IDENTIFIED UNDER HIPAA TO CREATE THE LICENSED DATA “AS IS” AND, EXCEPT AS SET FORTH IN THE SPECIFICATIONS, IS NOT RESPONSIBLE FOR THE ACCURACY, COMPLETENESS, AND/OR INTEGRITY OF SUCH DATA. TEMPUS DISCLAIMS ANY LIABILITY RESULTING FROM ANY SUCH ISSUES RELATING TO SUCH DATA. TEMPUS HAS NO LIABILITY FOR CLINICAL, OPERATIONAL, BUSINESS, OR ANY OTHER DECISIONS MADE BY CLIENT, CLIENT’S AFFILIATES, AUTHORIZED USERS, OR CLIENT’S SUBLICENSEE(S), AND/OR TRANSFEREE(S) BASED ON THE LICENSED DATA.
- iii. ALL TECHNOLOGY, RIGHTS AND SERVICES ARE LICENSED AND OTHERWISE PROVIDED “AS IS,” “WHERE-IS,” AND “WITH ALL FAULTS.”

6. Fees and Invoices; [*].**

- a. *General.* Unless agreed upon by the Parties otherwise, Tempus will invoice Client for all fees under this Agreement, and payment is due within [***] days of the invoice date. Fees do not include applicable Taxes (including sales, use, or excise taxes), and all Taxes arising under this Agreement other than those assessed on Tempus’ income or gross receipts are Client’s responsibility. Client agrees to pay Tempus all fees in accordance with the Agreement and applicable Order Form. Notwithstanding anything to the contrary contained in this Agreement, all payment obligations under this Agreement, including the fees set out in this Section 6, will accrue upon the Effective Date but will not be due and payable until [***].
- b. *Upfront Payment.* In consideration of entering into this Agreement and for the rights granted to Client under this Agreement to the Initial Records Batch, Client will pay Tempus a one-time, non-refundable, non-creditable upfront payment of seven and half billion Japanese Yen (¥ 7,500,000,000) (“License Fee”), using the Exchange Rate as of the date Closing, within [***] Days following the Closing, which for clarity, includes any Data Access and Preparation Services Fees incurred by Client prior to Closing. For the avoidance of doubt, in the event this Agreement is terminated pursuant to Section 10.d (Automatic Termination), [***].
- c. *Fees for Additional Records Batch.* In consideration for the licenses granted to [***] Records included in one ore more Additional Records Batches under this Agreement, Client will pay Tempus fees that are the [***]. In consideration for the licenses granted to all other Records included in an Additional Records Batch hereunder, Client will pay Tempus fees that are consistent with the obligations arising under [***].
- d. *Fees for Records Substitution and Licensed Data Services.* During the Substitution Term and the Extended Substitution Term (if applicable) and subject to the Substitution Cap, Tempus will provide any Records Substitution that does not entail any Approved Supplemental Work at no additional cost to Client. Any Records Substitution after such period or that entails Approved Supplemental Work will be documented in an Order Form. The fees for any Approved Supplemental Work and Licensed Data Services performed pursuant to Section 4 (Licensed Data Services) will be calculated as [***] percent ([***]) of the costs and expenses incurred by Tempus for performing the Approved Supplemental Work or other Licensed Data Services.

- e. *Fees for Updates to Licensed Data.* Tempus will provide Licensed Data Updates at no cost during the [***] immediately following the Closing. After the expiration of the period constituting [***] immediately following the Closing, Client will pay Tempus a fee of [***] U.S. Dollars (\$[***]) on a Record-by-Record basis, using the Exchange Rate as of the date of payment, for each Licensed Data Update, up to a total fee of [***] U.S. Dollars (\$[***]).
- f. *Fees for Cloud Infrastructure.* Client will pay (a) [***], and (b) [***] ([***]) of Tempus' internal costs and expenses (including overhead and labor costs for Tempus' personnel) incurred in connection with maintaining a dedicated instance of Google Cloud Platform for hosting the Initial Records Batch, in each case of (a) and (b), accrued from [***] until such time that Client has established its own cloud infrastructure capable of hosting the Licensed Data and Tempus no longer hosts any Licensed Data on Client's behalf.
- g. *Fees for Data Access and Preparation Services.* In consideration for the Data Access and Preparation Services provided by Tempus, Client will pay [***] U.S. Dollars (US\$[***]) per month (the "Data Access and Preparation Services Fees"), provided that the Data Access and Preparation Services shall in no event exceed [***] U.S. Dollars (US\$ [***]) in the aggregate. For the avoidance of doubt, upon Closing, all Data Access and Preparation Services Fees incurred prior to Closing will be credited against and deemed to be included within the License Fee.
- h. *Fees for Sales Agent Records.* In consideration for the licenses granted to Sales Agent Records under this Agreement, Client will pay fees that are consistent with [***].
- i. *Late Payments.* Interest will apply to any undisputed, overdue invoices at a rate of the lesser of (a) [***] (b) [***].
- j. [***].
- k. *Tax Cooperation and Coordination.* The Parties acknowledge and agree to cooperate in order to appropriately calculate consistently with Applicable Laws, Taxes payable with respect to their collaborative efforts under this Agreement and any appropriate reductions, credits, or deductions that may lawfully reduce otherwise applicable Taxes. In particular, where any such deduction or withholding in relation to any payment made under this Agreement can be reduced, eliminated or recovered by an application under any income or double tax treaty, the Parties will cooperate with each other and use Commercially Reasonable Efforts with regards to such application. Tempus will provide to Client any taxation documents and other documents that may be reasonably necessary in order for Client not to withhold Tax or to withhold Tax at a reduced rate under an appropriate income or double tax treaty. Without limiting the generality of the foregoing, prior to the payment of any amount under this Agreement (including the payment set forth in Section 6.b (Upfront Payment)) and at such other times as reasonably requested by Client: (1) Tempus will provide Client with such information, documentation and authorizations requested by Client as is reasonably necessary for Client to prepare and file on Tempus's behalf all required forms and applications necessary to establish Tempus' eligibility for benefits under the income tax treaty between the United States and Japan (the "US-Japan Income Tax Treaty") with respect to the payment set forth in Section 6.b (Upfront Payment) and any other applicable payment under this Agreement for which a reduction in or exemption from withholding tax is available under the US-Japan Income Tax Treaty, and (2)

Client will prepare and file all such forms and applications with the National Tax Agency (Japan) on Tempus's behalf. Tempus will provide such cooperation (including the provision of information and the timely execution of relevant forms and certificates requested by Client) reasonably necessary to enable Client to timely prepare and file such forms.

- i. *Payment of Tax.* Tempus will pay any and all Taxes levied on any payment received pursuant to this Agreement except as provided in this Section 6 (Fees and Invoices; [***]). If Client is required by Applicable Law to make a payment to Tempus subject to a deduction or withholding of Tax, Client may deduct or withhold the applicable Tax without increase of the amount of payment to Tempus and will (a) deduct those Taxes from the payment; (b) pay the Taxes to the proper taxing authority; and (c) send evidence of the obligation together with proof of payment to Tempus within [***] days following that payment. If Client is required by the proper taxing authority to make a payment of withholding tax, Tempus will collaborate to seek a refund under the tax treaty.

7. Privacy, Confidentiality, and Intellectual Property.

- a. *Privacy.* The Licensed Data will be de-identified in accordance with the HIPAA before provision.
- b. *Non-disclosure.* Any non-public information provided by a Party (the "Disclosing Party") to the other Party (the "Receiving Party") in connection with this Agreement, including the specific terms and pricing is the Disclosing Party's "Confidential Information." During the Term and the subsequent three (3) year period, the Receiving Party will maintain all Confidential Information in confidence and use it only as reasonably necessary to perform its obligations and exercise its rights under this Agreement. Confidential Information excludes information that (i) is publicly available through no fault of the Receiving Party; (ii) was lawfully obtained by the Receiving Party on a non-confidential basis from a third-party; (iii) the Receiving Party can conclusively demonstrate was legally in the Receiving Party's possession before the Disclosing Party provided it to the Receiving Party; (iv) was independently developed by the Receiving Party or on the Receiving Party's behalf without the use of any information provided to the Receiving Party by the Disclosing Party; or (v) was released from the restrictions set forth in this Section 7.b (Non-disclosure) by express prior written consent of the Disclosing Party. Notwithstanding the foregoing, a Receiving Party may use and disclose the Confidential Information of the Disclosing Party for the following instances: (a) to comply with Applicable Laws provided that, where legally permissible, the Receiving Party will promptly notify the Disclosing Party of such obligation sufficiently before making such disclosure, so as to allow the Disclosing Party adequate time to take whatever action it may deem appropriate to protect the confidentiality of the information to be disclosed, and fully cooperate with the Disclosing Party, if so requested, in maintaining the confidentiality of such information by applying for a protective order or any similar legal instrument; and (b) bona fide potential investors and potential acquirers, provided, however that such third-party is then subject to written obligations of confidentiality and limitations on use of such Confidential Information substantially similar to those contained herein. For clarity, the Disclosing Party will continue to treat any Confidential Information disclosed as permitted hereunder pursuant to the foregoing as Confidential Information for all other purposes under this Agreement.
- c. *Intellectual Property.* Subject to the limited rights expressly granted to Client in this Agreement, Tempus reserves all right, title, and interest (including all intellectual property rights) in and to the Licensed Data. All improvements, updates, enhancements, derivative works, and other modifications to the Licensed Data (the "Licensed Data Improvements") made or conceived solely by or on behalf of Tempus or its Affiliates will be owned by Tempus. Subject to the first sentence

of this Section 7.c (Intellectual Property) any Licensed Data Improvements made or conceived solely by or on behalf of Client or its Affiliates will be owned by Client. Subject to the terms and conditions of this Agreement, Client grants to Tempus a [***] non-exclusive license under Client-owned Licensed Data Improvements solely to the extent necessary or reasonably useful for Tempus to use or otherwise exploit any Licensed Data. Client will have no obligation under this Agreement to share any Client-owned Licensed Data Improvements with Tempus, provided that, upon Tempus's request, the Parties will use good faith efforts to negotiate a separate agreement pursuant to which Client may share Client-owned Licensed Data Improvements with Tempus. No rights, by implication, estoppel or otherwise, are granted to Client in this Agreement other than those expressly granted in Section 3 (License Grants and Acknowledgements).

8. Indemnification.

- a. *Indemnification by Client.* Client will indemnify, defend and hold harmless Tempus, its Affiliates, and their directors, officers, employees, and agents (individually and collectively, the "Tempus Indemnitee(s)") from and against all losses, liabilities, damages and expenses (including reasonable attorneys' fees and costs) incurred in connection with any claims, demands, actions or other proceedings by any third-party (individually and collectively, "Losses") to the extent arising from: (a) any breach of this Agreement by Client (including by any Authorized User, Affiliate, sublicensee of Licensed Data or transferee of Licensed Data), (b) Client's grossly negligent performance or willful misconduct under this Agreement, or (c) any use or other exploitation of the Licensed Data by Client or any of its Authorized Users, Affiliates, sublicensees or transferees of Licensed Data, except in each case (a)-(c), to the extent such Losses arise out of the willful misconduct or breach of this Agreement by any Tempus Indemnitee or are subject to an indemnity pursuant to Section 8.b (Indemnification by Tempus).
- b. *Indemnification by Tempus.* Tempus will indemnify, defend and hold harmless Client, its Affiliates, and their directors, officers, employees and agents (individually and collectively, the "Client Indemnitee(s)") from and against all Losses to the extent arising from: (a) any breach of this Agreement by Tempus, (b) Tempus' grossly negligent performance or willful misconduct under this Agreement, (c) a claim that Client's use of the Licensed Data in the Field and in the Territory in accordance with this Agreement and in the form delivered by Tempus to Client infringes a copyright, a U.S. patent, or a third-party trademark or other proprietary right, or misappropriates a third-party trade secret or (d) a claim that Client's use of the Licensed Data in the Field in the Territory in accordance with this Agreement and in the form delivered by Tempus to Client infringes a Japanese patent, [***], except in each case (a)-(d), to the extent such Losses arise out of the willful misconduct or breach of this Agreement by any Client Indemnitee or is subject to an indemnity pursuant to Section 8.a (Indemnification by Client). The obligation set forth in clauses (c) and (d) will not apply to the extent of Losses that arise out of (i) any Licensed Data modified without Tempus' approval; (ii) the use of any Licensed Data in combination with materials not provided by Tempus; or (iii) the use of any Licensed Data other than as permitted under this Agreement or the Business Plan (as defined in the JV Agreement).
- c. *Indemnification Procedure.* If either Party is seeking indemnification under Section 8.a (Client Indemnification Obligations) or Section 8.b (Tempus Indemnification Obligations) (the "Indemnified Party"), it will inform the other Party (the "Indemnifying Party") of the claim giving rise to the obligation to indemnify promptly given the circumstances after receiving notice of the claim (it being understood and agreed, however, that the failure or delay by an Indemnified Party to give such notice of a claim will not affect the indemnification provided hereunder except to the

extent the Indemnifying Party will have been actually and materially prejudiced as a result of such failure or delay to give notice). The Indemnifying Party will have the sole right to assume and control the defense of any such claim for which it is obligated to indemnify the Indemnified Party. The Indemnified Party will cooperate with the Indemnifying Party and the Indemnifying Party's insurer as the Indemnifying Party may reasonably request, and at the Indemnifying Party's cost and expense. The Indemnified Party will have the right to participate, at its own expense and with counsel of its choice, in the defense of any claim that has been assumed by the Indemnifying Party. Neither Party will have the obligation to indemnify the other Party in connection with any settlement made without the Indemnifying Party's written consent, which consent will not be unreasonably withheld or delayed.

- d. *Mitigation of Loss.* Each Indemnified Party will take and will procure that its Affiliates take all such reasonable steps and action as are reasonably necessary or as the Indemnifying Party may reasonably require in order to mitigate any claims (or potential losses or damages) under this Section 8 (Indemnification). Nothing in this Agreement will or will be deemed to relieve any Party of any common law or other duty to mitigate any losses incurred by it.

9. **Disclaimers; Limitation of Liability.** IN NO EVENT WILL EITHER PARTY BE LIABLE FOR ANY LOST REVENUES OR PROFITS, OR OTHER INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE SERVICES PERFORMED UNDER THIS AGREEMENT, EVEN IF THAT PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE TOTAL CUMULATIVE LIABILITY OF EACH PARTY FOR ALL CLAIMS ARISING FROM OR RELATING TO THIS AGREEMENT, INCLUDING WITHOUT LIMITATION ANY CAUSE OF ACTION ARISING IN CONTRACT, TORT, OR STRICT LIABILITY, WILL NOT EXCEED THE TOTAL AMOUNT PAID TO TEMPUS UNDER THIS AGREEMENT. THE ABOVE LIMITATIONS, DISCLAIMERS AND EXCLUSIONS DO NOT APPLY TO (A) ANY VIOLATION OF THE CONFIDENTIALITY OR PAYMENT OBLIGATIONS UNDER THIS AGREEMENT, (B) INDEMNIFICATION OBLIGATIONS ARISING UNDER SECTION 8.a (CLIENT INDEMNIFICATION OBLIGATIONS) AND SECTION 8.b (TEMPUS INDEMNIFICATION OBLIGATIONS) OR (C) ATTRIBUTABLE TO A PARTY'S FRAUD, GROSS NEGLIGENCE, WILFUL MISCONDUCT (INCLUDING IN THE CASE OF CLIENT, WITH RESPECT TO ITS USE OF THE LICENSED DATA).

10. **Term and Termination.**

- a. *Term.* This Agreement is effective as of the Effective Date and, unless terminated earlier as set forth in this Section 10 (Term and Termination) will remain in effect for as long as the JV Agreement is in effect (such time period, the "Term").
- b. *Termination Events.* Either Party may terminate this Agreement if the other has committed a material breach, and such breach is not cured to the reasonable satisfaction of the non-breaching Party within [***] days of receipt of written notice from the non-breaching Party. In the case of Client as the breaching party, Tempus may only terminate for material breach if Client has materially breached Sections 3.a.ii (Sub-licensing Conditions), 5.a (Restrictions), 5.b (Compliance), 5.d (Security Incident Report), 6.b (Fees for Licenses to Initial Records Batch), 6.c (Fees for Additional Records Batch), 6.d (Fees for Records Substitution and Licensed Data Services.), 6.e (Fees for Updates to Licensed Data), 6.f (Fees for Cloud Infrastructure), 6.h (Fees for Sales Agent Records), 7.b (Non-disclosure) or 8.a (Client Indemnification Obligations) and such breach is not cured to the reasonable satisfaction of Tempus within [***] days of receipt of written notice from Tempus. Such termination under this Section 10.b (Termination Events) will terminate all licenses

under this Agreement and all Order Forms, but not payment obligations that have accrued through the date of termination. Nonpayment of fees will be a material breach.

- c. *Convenience.* Client may terminate this Agreement for convenience with [***] days advanced written notice. A termination for convenience will not affect any in progress Order Forms, and every applicable provision of this Agreement will remain in full force and effect until an existing Order Form expires or terminates. Termination for convenience under this Section will not impact Client's obligation to pay any fees accrued through the date of termination.
- d. *Automatic Termination.* This Agreement will terminate automatically upon the termination of the JV Agreement pursuant to Section 13.2(b) of the JV Agreement. Upon such termination, Client will be required to pay all Data Access and Preparation Services Fees incurred by Client as of such termination date (but, for clarity, will have no obligation to pay the License Fee).
- e. *Regulatory Changes.* If either Party (the "Noticing Party") determines in good faith that a change in Applicable Law, or a change in how a current Applicable Law is interpreted, makes this Agreement illegal, then the Parties will work in good faith to amend the Agreement to ensure compliance.
- f. *Effect of Termination; Survival.* Section 1 (Definitions), Section 3 (License Grants and Acknowledgements), Section 5 (Use of Licensed Data Services), Section 6.a (Fees and Invoices; [***]) through Section 6.j (Fees and Invoices; [***]), Section 7 (Privacy, Confidentiality, and Intellectual Property), Section 8 (Indemnification), Section 9 (Disclaimers; Limitation of Liability), Section 10 (Term and Termination) and Section 11 (Miscellaneous) will survive the expiration or termination of this Agreement. Unless this Agreement was terminated by Tempus due to Client's uncured material breach pursuant to Section 10.b (Termination Events), upon termination or expiration of this Agreement, all licenses to Client will expire, except for any perpetual licenses to Licensed Data, provided that, (a) the terms of Sections 3.a.ii (Sub-Licensing Conditions) and Section 5.a (Restrictions) will continue in effect solely with respect to such surviving perpetual licenses, and (b) Section 10.b (Termination Events) will apply with respect to any such surviving perpetual license *mutatis mutandis*. Upon expiration or termination of this Agreement, except to the extent permitted by any surviving licenses, Client will cease use of any Licensed Data and will return or destroy, at Tempus' option, all Licensed Data and provide written certification of destruction (if applicable).

11. Miscellaneous.

- a. *Governing Law and Disputes.* This Agreement will be governed exclusively by the laws of Delaware, United States, without regard to its conflict of law principles. Any dispute under this Agreement will be finally settled under confidential arbitration as provided in Section 14.3 (Dispute Resolution) of the JV Agreement, except that the choice of law will be as set forth in the immediately preceding sentence. The Parties will use good faith efforts to work together to resolve disputes related to this Agreement, using mutually escalating discussions as needed.
- b. *Force Majeure.* Neither Party will be liable for any failure or delay of performance to the extent resulting from a cause outside of its reasonable control, such as natural disaster, strike, fire, governmental action, terrorism, or war.
- c. *Notice.* Any notices required in this Agreement will be delivered to the address for each Party listed at the beginning of this Agreement.

- d. *Binding Effect; Assignment.* This Agreement is binding upon, and will inure to the benefit of, the successors and permitted assigns of the Parties. Either Party may assign its rights and responsibilities under this Agreement (i) to any of its Affiliates for so long as such entity continues to be an Affiliate or (ii) in connection with a merger, acquisition, corporate reorganization or sale of all or substantially all of its assets. Any other purported assignment is void.
- e. *Use of Name and Marks.* Except to the extent set forth in the IP License Agreement, neither Party may use the other Party's name or marks for any purpose without the other Party's advance written consent.
- f. *Relationship of the Parties.* This Agreement does not create a partnership, franchise, joint venture, agency, fiduciary, or employment relationship between the Parties.
- g. *Costs.* Except where expressly set forth otherwise in this Agreement, each Party will bear its own costs and expenses incurred in connection with this Agreement and the other activities and responsibilities assigned to it under this Agreement.
- h. *Entire Agreement; Amendments and Waivers.* This Agreement is the entire understanding between the Parties on its subject matter. There are no third-party beneficiaries to this Agreement. If any provision is held invalid or unenforceable, the remainder of the Agreement will remain enforceable to the fullest extent permitted by Applicable Law, so long as such change does not materially change the cost or benefit of the Agreement to a Party. Failure to enforce any term of this Agreement is not a waiver.

Pegasos Corp.

/s/ Ippei Mimura

Name: Ippei Mimura

Title: Representative Director

Date: 18-May-2024

Tempus AI, Inc.

/s/ Jim Rogers

Name: Jim Rogers

Title: Treasurer and Chief Financial Officer

Date: 18-May-2024

Tempus Licensed Data

Order Form

This Order Form is made part of and incorporated by reference into that certain Data License Agreement by and between Tempus AI, Inc. ("Tempus") and Pegasos Corp. ("Client"), as amended from time to time. Client would like to license a cohort of Customary De-Identified Data Records or Unrestricted De-Identified Data Records and/or receive certain services from Tempus pursuant to this Order Form and subject to the terms of the Agreement. Capitalized terms that are used but not defined below have the meanings assigned in the Agreement.

1. Licensed Data.

- a. Licensed Data Description. [***].
b. Permitted Purpose. [purpose]
c. License Term. [term].
d. Delivery Schedule. [schedule].

2. Services. As part of the Fees set forth below, Tempus will provide [XX] hours of [***]. The Parties will agree in advance on the services Tempus will provide, the authorized number of hours for each service, and the contents of any report Tempus provides at the conclusion of the services.

3. Fees and Expenses. [fees and payment schedule].

In the event of a conflict between this Order Form and the Agreement, this Order Form will supersede the Agreement solely to the extent necessary to resolve the conflict.

This Order Form is effective as of the later date of signature below (the "Order Form Effective Date").

Pegasos Corp.

Tempus AI, Inc.

Name: Ippei Mimura
Title: Representative Director
Date:

Name:
Title:
Date:

CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [*], HAS BEEN OMITTED BECAUSE TEMPUS AI, INC. HAS DETERMINED THE INFORMATION (I) IS NOT MATERIAL AND (II) WOULD LIKELY CAUSE COMPETITIVE HARM TO TEMPUS AI, INC. IF PUBLICLY DISCLOSED.**

INTELLECTUAL PROPERTY LICENSE AGREEMENT

This **INTELLECTUAL PROPERTY LICENSE AGREEMENT** (“**Agreement**”) is made and entered into as of May 18, 2024, by and between **Pegasos Corp.**, organized and existing under the laws of Japan (“**KK**”) and **Tempus AI, Inc.**, a corporation organized and existing under the laws of Delaware, United States with a principal place of business at 600 West Chicago Avenue, Suite 510 Chicago, Illinois 60654 (“**Tempus**”). **KK** and **Tempus** are sometimes referred to herein individually as a “**Party**” and collectively as the “**Parties**.”

BACKGROUND

Whereas, concurrent with this Agreement, Softbank Group Corp. (“**SBG**”) and **Tempus** are entering into that certain Joint Venture Agreement dated as of even date herewith (the “**JVA**”) to organize and form **KK** to conduct the Business (as defined in the **JVA**) solely for and within the **KK Territory** (as defined below) and within the **Field** (as defined below) (the “**Licensed Business**”); and

Whereas, to enable **KK** to operate and conduct the **Licensed Business**, **KK** desires to receive from **Tempus**, and **Tempus** desires to provide to **KK**, certain licenses under the **Tempus Technology** (as defined below) and certain services (as detailed further in this Agreement), each pursuant to the terms of this Agreement.

Now Therefore, the Parties, for consideration as provided herein, agree as follows:

Article 1 DEFINITIONS

Capitalized terms used in this Agreement, whether used in the singular or plural, shall have the meanings set forth below, unless otherwise specifically indicated herein.

1.1 “**Affiliate**” means any entity that, directly or indirectly (through one or more intermediaries) controls, is controlled by, or is under common control with a Party. For purposes of this Section 1.1 (“**Affiliate**”), “control” means (a) the direct or indirect ownership of greater than fifty percent (50%) of the voting stock or other voting interests or interest in the profits of the Party or (b) the ability to otherwise control or direct the decisions of board of directors or equivalent governing body thereof. For purposes of this Agreement, **KK** shall not be considered an **Affiliate** of **Tempus** (or any of its subsidiaries) or an **Affiliate** of **SBG** (or any of its subsidiaries).

1.2 “**Applicable Laws**” means any federal, state, local, national, and supra-national laws, statutes, rules, and/or regulations, including any rules, regulations, guidance, guidelines, or requirements of Regulatory Authorities, national securities exchanges, or securities listing organizations, that may be in effect from time to time during the Term and apply to a particular activity hereunder.

1.3 “**Business Day**” means a day other than Saturday, Sunday or any day on which banks located in Chicago, U.S., or Tokyo, Japan are authorized or obligated to close. Whenever this Agreement refers to a number of days, such number shall refer to calendar days unless Business Days are specified.

1.4 “**Calendar Quarter**” means each successive period of three (3) consecutive calendar months ending on March 31, June 30, September 30, or December 31; provided, however that (a) the first Calendar Quarter of the Term shall extend from the Effective Date to the first to occur of March 31, June 30, September 30, or December 31 of the calendar quarter in which the Effective Date falls; and (b) the last Calendar Quarter of the Term shall end upon the expiration or termination of this Agreement.

1.5 “**Calendar Year**” means each successive period of twelve (12) calendar months commencing on January 1 and ending on December 31; provided however, that (a) the first Calendar Year of the Term shall extend from the Effective Date to the first December 31 of the calendar year in which the Effective Date falls; and (b) the last Calendar Year of the Term shall end upon the expiration or termination of this Agreement.

1.6 “**Commercially Reasonable Efforts**” means in relation to an obligation of a Party under this Agreement, the level of efforts and resources consistent with the efforts and resources that an entity similarly situated to such Party, including with similar size and resources, for a similar obligation or task in light of the relative value and importance associated with the performance of such obligations or tasks in the respective Territory.

1.7 “**Confidential Information**” means proprietary information (of whatever kind and in whatever form or medium, including copies thereof), tangible materials or other deliverables that are identified as “confidential” or that should be considered confidential given the nature and circumstances of disclosure by a reasonable person working in the industry, and disclosed or made available by or on behalf of a Party in connection with this Agreement, whether prior to or during the Term and whether disclosed orally, electronically, by observation or in writing, but excluding such information set forth in Section 6.2 (Exclusions Regarding Confidential Information). Subject to Section 6.2 (Exclusions Regarding Confidential Information), the Tempus Technology is Confidential Information of Tempus. [***].

1.8 “**Control**” means, subject to Section 12.5.2 (Assignment), with respect to any intellectual property (including any Patent, Know-How, or other data, information or materials), possession of the ability by a Party (whether by sole or joint ownership, license or otherwise, other than pursuant to this Agreement) to grant a license, sublicense, access or other right in, to or under such intellectual property (collectively, “**Sublicense**”), without violating the terms of any agreement with a Third Party, violating any Applicable Law, or resulting in a payment obligation to any Third Party (other than current or former employees or contractors of such Party or its Affiliates); unless the Party obtaining such Sublicense agrees to reimburse the other Party for such payment made to such unaffiliated Third Party and agrees in writing to comply with the applicable terms required for such Sublicense, in a form acceptable to the Party granting such Sublicense.

- 1.9 “**Effective Date**” means the Closing Date (as defined in the JVA).
- 1.10 “**Exchange Rate**” means, for any payment under this Agreement the exchange rate published by Mizuho Bank, Ltd. under the heading “TTS” at <https://www.mizuho.com/jp/market/quote.html> as of the applicable payment date.
- 1.11 “**Executive Officers**” means each Party’s respective Chief Executive Officer or his or her designee.
- 1.12 “**FDA**” means U.S. Food and Drug Administration.
- 1.13 “**Field**” means the diagnosis, prevention, treatment, prophylaxis, management or cure of disease or disability in humans or other healthcare-related initiatives, including the development, commercialization and sale of data and other AI-based products and services related to the foregoing.
- 1.14 “**Governmental Authority**” means any court, commission, authority, department, ministry, official or other instrumentality of, or being vested with public authority under any law of, any country, region, state or local authority or any political subdivision thereof, or any association of countries.
- 1.15 “**Intellectual Property**” means inventions, discoveries, Patents, patent applications, trademarks, trademark applications, designs, Know-How, copyrights, and trade secrets.
- 1.16 “**Knowledge**” means, when referring to the “knowledge” of Tempus, or similar phrase or qualification based on knowledge, the actual knowledge, after reasonable inquiry, of Tempus’s [***].
- 1.17 “**Know-How**” means [***].
- 1.18 “**KK Know-How**” means [***].
- 1.19 “**KK Patents**” means [***].
- 1.20 “**KK Technology**” means KK Patents and KK Know-How.
- 1.21 “**KK Territory**” means Japan.
- 1.22 “**Patent(s)**” means any and all patents and patent applications, including any patents issuing therefrom or claiming priority thereto, anywhere in the world, together with any extensions (including patent term extensions and supplementary protection certificates) and renewals thereof, reissues, re-examinations, substitutions, confirmation patents, registration patents, invention certificates, patents of addition, renewals, divisionals, continuations, and continuations-in-part of any of the foregoing.

- 1.23 “**Person**” means any individual, corporation, association, partnership (general or limited), joint venture, trust, estate, limited liability company, limited liability partnership, unincorporated organization, government (or any agency or political subdivision thereof) or other legal entity or organization.
- 1.24 “**PMDA**” means the Japanese Pharmaceuticals and Medical Devices Agency, or any successor agency thereto.
- 1.25 “**Pricing Approval**” means the approval, agreement, determination or governmental decision establishing the list price for a product to be paid by the applicable insurance provider and the individual end-consumer or patient.
- 1.26 “**Prime Rate**” means the rate published in the print edition of the Wall Street Journal on that date on which such rate applies.
- 1.27 “**Regulatory Approval**” means any approval, product and establishment license, registration, or authorization of any Regulatory Authority required for the manufacture, use, storage, import, transport, or commercialization of a product in accordance with Applicable Laws.
- 1.28 “**Regulatory Authority**” means any applicable Governmental Authority responsible for granting Regulatory Approvals or Pricing Approvals for any products, including FDA, PMDA, and like authorities in other countries.
- 1.29 “**Sublicensee**” means a Third Party that is granted a sublicense by KK to any of the Tempus Technology pursuant to Section 2.2 (Sublicensing).
- 1.30 “**Tempus Know-How**” means, [***].
- 1.31 “**Tempus Patent**” means [***].
- 1.32 “**Tempus Technology**” means Tempus Patents and Tempus Know-How.
- 1.33 “**Tempus Territory**” means (a) during the Term, any country or region other than the KK Territory, and (b) after the Term, any country or region.
- 1.34 “**Tax**” or “**Taxes**” means (a) any taxes, assessments, fees, including income, profits, gross receipts, net proceeds, sales, alternative or add on minimum, ad valorem, turnover, property, personal property (tangible and intangible), environmental, stamp, leasing, lease, user, duty, franchise, capital stock, transfer, registration, license, withholding, social security (or similar), unemployment, disability, payroll, employment, social contributions, fuel, excess profits, occupational, premium, windfall profit, severance, estimated, or other charge of any kind whatsoever, including any interest, penalty, or addition thereto, whether disputed or not and (b) any liability for the payment of any amounts of the type described in clause (a) as a result of the operation of law.
- 1.35 “**Territory**” means the Tempus Territory or the KK Territory, as applicable.
- 1.36 “**Third Party**” means a Person other than KK, Tempus or their respective Affiliates.

Article 2 LICENSES

2.1 **License Grant to KK.** Subject to the terms and conditions of this Agreement, and in particular Section 2.4 (Reservation of Rights), Tempus grants to KK [***] non-exclusive license under the Tempus Technology transferred to KK pursuant to any Technology Transfer during the Term solely to conduct the Licensed Business in the Field in the KK Territory.

2.2 **Sublicenses.** KK shall have the right to sublicense the license rights granted in Section 2.1 (License Grant to KK) to any Third Party [***] solely to conduct the Licensed Business in the Field in the KK Territory, provided that, (a) such Third Party shall agree in writing to comply with the terms and conditions of this Agreement, (b) KK shall remain fully liable to Tempus for the acts and omissions of such Third Party in connection with this Agreement, and any breach by such Third Party of its applicable sublicense agreement shall be a breach by KK of this Agreement; and (c) KK shall provide Tempus with a copy of each sublicense agreement with any Third Party pursuant to which a sublicense is granted under to this Section 2.2 (Sublicenses) promptly after execution, from which KK may redact any terms unrelated to this Agreement. All other sublicenses by KK shall require the prior written consent of Tempus.

2.3 **KK Covenants.** KK shall not exploit the Tempus Technology for any purpose other than to conduct the Licensed Business in the Field in the KK Territory, and shall not exploit the Tempus Technology outside of the Field or outside of the KK Territory. KK shall not practice the Tempus Technology other than as expressly licensed and permitted under this Agreement or otherwise agreed by the Parties in writing.

2.4 **Reservation of Rights.** Tempus reserves all rights to Tempus Technology not specifically granted under Section 2.1 (License Grant to KK), and no further licenses, either by implication or estoppel, are contemplated or granted hereunder.

2.5 **License Grants to Tempus.** Subject to the terms and conditions of this Agreement, KK shall and hereby does grant to Tempus [***] and non-exclusive license under the KK Technology [***]. KK shall have no obligation under this Agreement to disclose any other KK Technology to Tempus. KK acknowledges that Tempus or its Affiliates may currently or in the future be developing internally, or receiving from other parties, concepts, techniques, information, materials, products, services, or other technology, that are similar to the concepts, techniques, information, materials, products, services, or other technology developed by KK pursuant to this Agreement, including the KK Technology. For the avoidance of doubt, this Section 2.5 shall not limit Tempus' rights with respect to any Joint Technology, including the right to exploit any Joint Technology without consent or a duty of accounting.

2.6 **Technology Transfer.**

2.6.1 **Initial Technology Transfer.** As soon as reasonably practicable (and in any event within [***] Days) after the Closing Date, Tempus shall make available and/or transfer to KK electronic copies of appropriate documents, data, software, manuals, instructions, specifications, documentation, or other Know-How, in each case, in its possession and included within the Tempus Know-How existing as of the Effective Date, including any of the foregoing related to the technologies set forth on Schedule 1.34 (Tempus Know-How) (the "Initial Technology Transfer").

2.6.2 Continuing Technology Transfer. After the completion of the Initial Technology Transfer, during the Term but subject to [Section 2.6.3 \(Tempus Withdrawal from KK\)](#), and upon the cadence set forth in the following sentence, Tempus will make available and/or transfer to KK electronic copies of any additional documents, data, software, manuals, instructions, specifications, documentation, or other Tempus Know-How (including updates, derivatives, improvements, and enhancements to, related to, or based on any Tempus Know-How previously transferred to KK), in each case, in its possession and included within the Tempus Know-How that have not been previously transferred to KK (the “**Continuing Technology Transfer**,” and together with the Initial Technology Transfer and all Continuing Technology Transfers, the “**Technology Transfer**”). Tempus will perform the Continuing Technology Transfer no more frequently than once every [***] following in the Initial Technology Transfer unless otherwise mutually agreed, provided that, Tempus will make available and/or transfer to KK (a) any new and critical versions (including material bug fixes and security hotfixes), upgrades, or other material updates to software already provided within the Tempus Technology that are necessary to the operation of such software promptly given the circumstances (which shall be no less frequently than once each Calendar Quarter following the Initial Technology Transfer or, if more frequently, then as such versions, upgrades, or updates are first rolled out within the Tempus Territory) and (b) promptly upon KK’s reasonable request, electronic copies of any Tempus Technology (including any upgrades or updates to software already provided within Tempus Technology) that is specifically requested, required by or otherwise essential for a KK customer in order to avoid negatively impacting such KK customer.

2.6.3 Tempus Withdrawal from KK. If at any time during the Term, Tempus is no longer a shareholder in KK, then from such date and thereafter, Tempus shall (a) have no further obligation to provide any Technology Transfer to KK; and (b) upon written request from KK, negotiate in good faith a license (which may be royalty-bearing) and technology transfer regarding Tempus Technology that is developed after such date.

2.6.4 Knowledge Transfer and Support. Subject to [Section 2.6.3 \(Tempus Withdrawal from KK\)](#), Tempus will reasonably cooperate with KK, upon KK’s reasonable request, to facilitate knowledge transfer and technical support regarding the Tempus Technology (“**Knowledge Transfer**”) during normal [***] operations and during [***]. Knowledge Transfer may include items such as technical support, responses to technical questions, or other demonstrations or training related to the use, implementation, or functionality of the Tempus Technology.

2.6.5 Specific Performance. If Tempus and KK, each acting in good faith, are unable to come to a decision in respect of any dispute regarding this [Section 2.6 \(Technology Transfer\)](#) within [***] Days of such matter first being raised, and such matter may materially affect the ability of KK to engage in the Business or to conduct the Business in an efficient manner, then (a) such matter will first be referred to senior executives of Tempus and (b) if such senior executives are unable in good faith to resolve the matter on an amicable basis within [***] Days, then solely with respect to a request by KK for specific performance or injunctive relief with respect to the technology transfer provisions of this [Section 2.6 \(Technology Transfer\)](#), and not with respect to any other requested remedy, matter or dispute, Tempus hereby consents to KK making an application to any court of competent jurisdiction seeking such interim measures. All other aspects of any dispute or other remedies sought under this Agreement are subject to the requirements set forth in [Article 11 \(Dispute Resolution\)](#).

2.7 **Rights in Bankruptcy.** All licenses and similar use rights granted under or pursuant to any Section of this Agreement are and will otherwise be deemed to be for purposes of the bankruptcy law or any other comparable or similar laws or regulations in any relevant country or jurisdiction (collectively, the “**Bankruptcy Laws**”) and licenses of rights to “intellectual property”. The Parties agree that the applicable Party, as licensees or sublicensees of such rights under this Agreement, will retain and may fully exercise all of its rights and elections under the applicable Bankruptcy Laws. The Parties further agree that, in the event of the commencement of a bankruptcy proceeding by or against a Party under the applicable Bankruptcy Laws, the other Party will be entitled to a complete duplicate of (or complete access to, as appropriate) such intellectual property and all embodiments of such intellectual property (including supporting materials such as files relating to prosecution or enforcement), which, if not already in such other Party’s possession, will be promptly delivered to it upon its written request thereof. Any agreements supplemental to this Agreement will be deemed to be “agreements supplementary to” this Agreement for purposes of the Bankruptcy Laws.

Article 3 FINANCIAL TERMS

3.1 **Upfront Payment.** In consideration of entering into this Agreement and the rights granted to KK under this Agreement, KK shall pay to Tempus a one-time, non-refundable, non-creditable upfront payment of Seven-Billion-Five-Hundred-Million Japanese Yen (¥7,500,000,000), using the Exchange Rate as of the Effective Date, within [***] Days of the Effective Date.

3.2 **Other Reimbursements.** To the extent that either Party incurs costs that are subject to reimbursement by the other Party hereunder, the Party incurring such costs shall provide such other Party an invoice therefor in US Dollars, based on the applicable Exchange Rate. The invoicing Party shall provide the other Party with such supporting documentation for such invoice as such other Party may reasonably request.

3.3 **Payment of Invoices; Disputes.** Each Party shall pay any undisputed invoice provided by the other Party under this Agreement within [***] days following its receipt thereof. All payments paid under this Agreement shall be made in US Dollars, calculated at the applicable Exchange Rate, through wire transfer of immediately available funds to such bank account as the invoicing Party may designate in writing from time to time. If the Party receiving such invoice disputes any portion thereof in good faith, then it shall give the invoicing Party written notice of such dispute and pay the undisputed portions of such invoice and the Parties shall promptly seek to reasonably resolve the disputed portions.

3.4 **Late Payments.** If either Party does not receive payment of any sum due to it on or before the due date, simple interest shall thereafter accrue on the sum due to such Party until the date of payment at the per annum rate of [***] assessed from the day payment was initially due within the regular office hours of the paying Party; provided, however, that in no case shall such interest rate exceed the highest rate permitted by Applicable Laws. The payment of such interest shall not foreclose each Party from exercising any other rights it may have because any payment is overdue.

3.5 Taxes.

3.5.1 **Tax Cooperation and Coordination.** The Parties acknowledge and agree to cooperate in order to appropriately calculate consistently with Applicable Laws, Taxes payable with respect to their collaborative efforts under this Agreement and any appropriate reductions, credits, or deductions that may lawfully reduce otherwise applicable Taxes. In particular, where any such deduction or withholding in relation to any payment made under this Agreement can be reduced, eliminated or recovered by an application under any income or double tax treaty, the Parties shall cooperate with each other and use Commercially Reasonable Efforts with regards to such application. Tempus shall provide to KK any taxation documents and other documents that may be reasonably necessary in order for KK not to withhold Tax or to withhold Tax at a reduced rate under an appropriate income or double tax treaty. Without limiting the generality of the foregoing, prior to the payment of any amount under this Agreement (including the upfront payment set forth in [Section 3.1 \(Upfront Payment\)](#)), and at such other times as reasonably requested by KK: (a) Tempus will provide KK with such information, documentation and authorizations requested by KK as is reasonably necessary for KK to prepare and file on Tempus's behalf all required forms and applications necessary to establish Tempus' eligibility for benefits under the income tax treaty between the United States and Japan (the "**US-Japan Income Tax Treaty**") with respect to the upfront payment set forth in [Section 3.1 \(Upfront Payment\)](#)), and any other applicable payment under this Agreement for which a reduction in or exemption from withholding tax is available under the US-Japan Income Tax Treaty, and (b) KK shall prepare and file all such forms and applications with the National Tax Agency (Japan) on Tempus's behalf. Tempus shall provide such cooperation (including the provision of information and the timely execution of relevant forms and certificates requested by KK) reasonably necessary to enable KK to timely prepare and file such forms.

3.5.2 **Assessment.** Either Party may, at its own expense, protest any assessment, proposed assessment, or other claim by any Governmental Authority for any additional amount of taxes, interest or penalties or seek a refund of such amounts paid if permitted to do so by Applicable Laws. The Parties shall cooperate with each other in any protest by providing records and such additional information as may reasonably be necessary for a Party to pursue such protest.

3.5.3 **Payment of Tax.** A Party receiving a payment pursuant to this Agreement shall pay any and all Taxes levied on such payment except as provided in this [Section 3.5 \(Taxes\)](#). If one Party is required by Applicable Laws to make a payment to the other Party subject to a deduction or withholding of Tax, the paying Party may deduct or withhold the applicable Tax without increase of the amount and shall (a) deduct those Taxes from the payment; (b) pay the Taxes to the proper taxing authority; and (c) send evidence of the obligation together with proof of payment to the other Party within [***] days following that payment. If the paying Party is required by the proper taxing authority to make a payment of withholding tax, the other Party shall collaborate to seek a refund under the tax treaty.

3.5.4 **Withholding Taxes Resulting from a Party's Action.** Without limiting the generality of the foregoing, other than with respect to the upfront payment set forth in [Section 3.1 \(Upfront Payment\)](#), if one Party (or a Party's assignees or successors) is required to make a payment to the other Party subject to a deduction or withholding of Tax, and if such deduction or withholding of Tax obligation arises as a result of any action taken by such required Party or its Affiliates or successors, including an assignment of this Agreement as permitted under [Section 12.5 \(Assignment\)](#), as a result of which (a) the payment arises in a territory other than such required Party's Territory, (b) there is a change in the tax residency of such required Party, or (c) the payments arise or are deemed to arise through a branch of such required Party in a territory other than such required Party's Territory and such action has the effect of increasing the amount of tax deducted or withheld (each, an "**Withholding Tax Action**"), then notwithstanding [Section 3.5.3 \(Payment of Tax\)](#), the payment by such required Party (in respect of which such deduction or withholding of Tax is required to be made) shall be increased by the amount necessary to ensure that the other Party receives an amount equal to the same amount that it would have received had no Withholding Tax Action occurred.

Article 4

INTELLECTUAL PROPERTY

4.1 **Inventorship.** For purposes of [Section 4.2 \(Ownership\)](#), inventorship for inventions and discoveries first made during the course of the performance of activities pursuant to this Agreement shall be determined in accordance with U.S. Patent Law.

4.2 Ownership.

4.2.1 **Background Intellectual Property.** As between the Parties, and subject to the licenses granted under this Agreement, each Party retains all right, title and interest in and to all intellectual property rights that such Party owns or Controls as of the Effective Date or that it develops or otherwise acquires after the Effective Date and outside the activities conducted pursuant to this Agreement.

4.2.2 **Tempus Ownership of New Intellectual Property.** Subject to the terms and conditions set forth in this Agreement, including the licenses granted in [Article 2 \(Licenses\)](#), the entire right, title and interest in and to all Know-How and Patents arising from the performance of activities or exercise of rights granted pursuant to this Agreement that are made or conceived solely by or on behalf of Tempus or its Affiliates shall be owned by Tempus.

4.2.3 **KK Ownership of New Intellectual Property.** Subject to the terms and conditions set forth in this Agreement, including the licenses granted in [Article 2 \(Licenses\)](#), the entire right, title and interest in and to all Know-How and Patents arising from the performance of activities or exercise of rights granted pursuant to this Agreement that are made or conceived solely by or on behalf of KK or its Affiliates shall be owned by KK.

4.2.4 **Joint Ownership of New Intellectual Property.** Subject to the terms and conditions set forth in this Agreement, including the licenses granted in [Article 2 \(Licenses\)](#), the entire right, title and interest in and to all Know-How and Patents arising from the performance of activities or exercise of rights granted pursuant to this Agreement that are made or conceived jointly by or on behalf of Tempus or its Affiliates and by or on behalf of KK or its Affiliates ("**Joint Know-How**" and "**Joint Patents**" respectively, and together, "**Joint Technology**") shall be owned jointly by Tempus and KK.

4.3 Invention Assignment. Each Party shall ensure that all of its and its Affiliates' employees and contractors (including subcontractors) acting under its or its Affiliates' authority in the performance of this Agreement assign to such Party under a binding written agreement all rights, titles and interests in and to all Know-How discovered, made, conceived or reduced to practice by such employee or contractor and any intellectual property rights thereunder. For clarity, each Party shall be solely liable for any compensation required by such written agreement, laws or otherwise to its and its Affiliates' employee or contractor who is the inventor or creator of such Know-How.

4.4 Right to Practice Joint Know-How and Joint Patents. Except to the extent either Party is restricted by the express terms of this Agreement, each Party shall have the right to practice and exploit such Joint Patents and Joint Know-How, with full rights to license its interest therein in the respective Territory and without any duty of accounting to or any duty to seek consent from the other Party. Each Party shall have a duty to protect Joint Know-How by taking all reasonable steps to prevent its public disclosure. Upon the reasonable request of either Party, the other Party shall take such further actions reasonably requested by the other Party to evidence or confirm the requesting Party's right to engage in such activities.

4.5 Prosecution.

4.5.1 Definition of Prosecution. As used herein, "prosecution" of Patents shall include all communication and other interaction with any patent office or patent authority having jurisdiction over a Patent application throughout the world in connection with pre-grant proceedings. Post-grant proceedings shall be governed by Section 4.6 (Enforcement Rights for Infringement by Third Parties).

4.5.2 Tempus Patents.

(a) Tempus shall have the sole right to prepare, file, prosecute and maintain the Tempus Patents in the Tempus Territory at Tempus's sole expense. Except as otherwise provided in Section 4.5.2(b) (Tempus Patents), Tempus shall have the first right, but not the obligation, to prepare, file, prosecute and maintain the Tempus Patents in the KK Territory. KK shall be kept reasonably informed on progress and have reasonable opportunity to review and comment on the documents filed in connection with the prosecution of the Tempus Patents in the KK Territory, and Tempus shall consider in good faith and incorporate KK's reasonable comments related to filings and prosecution-related documents in the KK Territory prior to submission to the Japan Patent Office; provided, however, that Tempus shall have the final decision with respect to such matters. For the avoidance of doubt, Tempus has no obligation to disclose Tempus's patent strategy or patent prosecution activities outside the KK Territory.

(b) Tempus may elect to cease prosecution and maintenance, or not to file an application for, any Tempus Patent in the KK Territory by written notice to KK given at least [***] days prior to any upcoming deadline in the Japan Patent Office (or, if the deadline is within [***] days, then within such shorter period that is still sufficient to give Tempus a reasonable opportunity to respond) with respect to such Tempus Patent. In such event, KK shall have the right, but not

the obligation, to assume the responsibility for the prosecution and maintenance of such Tempus Patent in the KK Territory in the name of Tempus, [***]. Any Tempus Patent in respect of which KK elects to prosecute or maintain under its control shall be, following KK's election to prosecute or maintain such Patent shall become a KK Patent for purposes of this Agreement.

4.5.3 **KK Patents.**

(a) KK shall have the sole right, but not the obligation, to prepare, file, prosecute and maintain the KK Patents, excluding Joint Patents, worldwide, including the Tempus Territory, at KK's sole expense and sole discretion.

(b) KK may elect to cease prosecution and maintenance, or not to file an application for, any KK Patents in the Tempus Territory by written notice to Tempus given at least [***] days prior to any upcoming deadline in any patent office (or, if the deadline is within [***] days, then within such shorter period that is still sufficient to give Tempus a reasonable opportunity to respond) with respect to such KK Patents. In such event, Tempus shall have the right, but not the obligation, to assume the responsibility for the prosecution and maintenance of such KK Patents in the Tempus Territory in the name of KK, [***]. The KK Patent in respect of which Tempus elects to prosecute or maintain under its control shall become a Tempus Patent for purposes of this Agreement.

4.5.4 **Joint Patents.**

(a) Except as otherwise provided in Section 4.5.4(b)(Joint Patents), Tempus shall have the right, but not the obligation, to prepare, file, prosecute and maintain the Joint Patents in the names of both Tempus and KK in the Tempus Territory (excluding Japan, following the Term) [***], and KK shall have the right, but not the obligation, to prepare, file, prosecute and maintain the Joint Patents in the names of both Tempus and KK in the KK Territory [***]; provided that following the Term, KK shall continue to have the right, but not the obligation, to prepare, file, prosecute and maintain the Joint Patents in the names of both Tempus and KK in the KK Territory [***]. Each Party shall at its own cost, sign, or use Commercially Reasonable Efforts to have signed, all legal documents necessary to file and prosecute patent applications or to obtain or maintain patents in respect of such Joint Patents. Each Party will be kept reasonably informed on progress of other Party's prosecution and will be provided reasonable opportunity to review and comment on prosecution-material documents, upon the other Party's request.

(b) In the event that a Party (the "**Abandoning Party**") elects not to file or continue to prosecute or maintain patent protection on any Joint Patent in its Territory by written notice to the other Party (the "**Assuming Party**") given at least [***] days prior to any upcoming deadline in any patent office (or, if the deadline is within [***] days, then within such shorter period that is still sufficient to give Tempus a reasonable opportunity to respond) with respect to such Joint Patent, the other Party shall have the right (but not the obligation) (which right shall continue following the Term) to file, prosecute and maintain such Joint Patent in such country in its sole name at its sole expense and without recourse to the Abandoning Party, in which event such Joint Patent will become Assuming Party's Patent.

4.6 Enforcement Rights for Infringement by Third Parties.

4.6.1 **Notice.** Each Party shall promptly notify (and will use Commercially Reasonable Efforts to so notify within [***] Days), in writing, the other Party upon learning of any actual or suspected infringement, misappropriation or other violation of the Tempus Technology (the “**Infringement**”, and a Third Party engaged in such Infringement, the “**Infringer**”), or of any claim, opposition or action alleging invalidity, unenforceability of the Tempus Patents and Joint Patents (the “**Challenge**”, and a Third Party engaged in such Challenge, the “**Challenger**”). If a Party receives such notice, such Party shall provide to the other Party all evidence in its possession pertaining to the actual or suspected Infringement, misappropriation or violation, or claim of invalidity or unenforceability that it can disclose without breach of a pre-existing obligation to a Third Party or waiver of a privilege.

4.6.2 **Tempus Technology.** Tempus shall have the sole right to enforce or defend the Tempus Technology against Infringers or Challengers within the Tempus Territory, in each case, at Tempus’s cost and expense. During the Term, KK shall have the initial right to elect to enforce or defend the Tempus Technology against Infringers or Challengers within the KK Territory, [***] or such shorter period as to give the other Party a reasonable opportunity to respond prior to any deadline under Applicable Law (as may be extended by KK’s reasonable request) after the first notice under Section 4.6.1 (Notice). If KK elects not to pursue action against such Infringers or Challengers within such period, then KK shall so notify Tempus in writing, [***].

4.6.3 **KK Technology.** KK shall have the sole right to enforce or defend the KK Technology, worldwide, against Infringers or Challengers at KK’s cost and expense.

4.6.4 **Joint Technology.** KK shall have the initial right to elect to enforce or defend Joint Technology against Infringers or Challengers within the KK Territory at KK’s cost and expense for a period of [***] days (as may be extended by KK’s reasonable request) after the first notice under Section 4.6.1 (Notice), which right shall continue with respect to the KK Territory following the Term. If KK elects not to pursue action against such Infringers or Challengers within such period, then KK shall so notify Tempus in writing, [***]. Tempus shall have the initial right to enforce or defend Joint Technology against Infringers or Challengers within the Tempus Territory (excluding Japan, following the Term) at Tempus’s cost and expense for a period of [***]. If Tempus elects not to pursue action against such Infringers or Challengers within such period, then Tempus shall so notify KK in writing, [***].

4.6.5 **Cooperation.** Each Party agrees to be joined in any litigation or administrative proceedings if necessary for the other Party to enforce or defend such intellectual property against Infringers or Challengers in accordance with this Section 4.6 (Enforcement Rights for Infringement by Third Parties) at the enforcing Party’s cost and expense. The Parties shall coordinate with respect to enforcement strategies in the KK Territory in the Field, and KK shall have the final decision-making authority with regard to any enforcement and defense of matters within the KK Territory in the Field; provided that KK shall work in good faith with and reasonably consider input of Tempus with regard to such matters, [***].

4.6.6 **Settlement.** KK shall have the sole right and authority to settle disputes arising from such Infringement or Challenge involving the Tempus Patents in the KK Territory, to the extent that KK controls such Infringement or Challenge under this Section 4.6 (Enforcement Rights for Infringement by Third Parties); [***].

4.6.7 Damages.

(a) **Tempus Technology.** All damages, amounts received in settlement, judgment or other monetary awards (the “**Damages**”) recovered in an action to enforce the Tempus Technology against Infringers or Challengers in the Tempus Territory shall be retained by Tempus. All Damages recovered in an action to enforce the Tempus Technology against Infringers or Challengers in the KK Territory shall be paid [***].

(b) **KK Technology.** All Damages recovered in an action to enforce the KK Technology against Infringers or Challengers in the KK Territory shall be retained by KK.

(c) **Joint Technology.** All Damages recovered in an action to enforce the Joint Patents against Infringers or Challengers shall be paid [***].

4.7 Third Party Infringement Claims. In the event that a Third Party shall make any claim, give notice, or bring any suit in the KK Territory against KK or Tempus, any of their respective Affiliates or KK’s customers or sublicensees, for infringement or misappropriation of any intellectual property rights with respect to the use of Tempus Technology, KK Technology or Joint Technology (“**Third Party Infringement Claim**”), the Party receiving notice of such Third Party Infringement Claim shall promptly (within [***] Days) notify the other Party and provide all information in its possession pertaining to the claim or suit that it can disclose without breach of a pre-existing obligation to a Third Party or waiver of a privilege.

4.7.1 Defense. The Parties shall consult as to potential strategies to defend against any Third Party Infringement Claim, consistent with the overall goals of this Agreement. The Parties shall cooperate in all reasonable respects in the defense of any Third Party Infringement Claim and any counterclaim related thereto. Subject to the respective indemnity obligations of the Parties set forth in [Article 9 \(Indemnification\)](#), KK shall be solely responsible for defending such Third Party Infringement Claim in the KK Territory, including but not limited to selection of counsel, venue, and directing all aspects, stages, motions, and proceedings of litigation, and Tempus shall be solely responsible for defending any such Third Party Infringement Claim outside the KK Territory (excluding Japan, following the Term).

4.7.2 Settlement. If any defense by either Party under this [Section 4.7 \(Third Party Infringement Claims\)](#) would adversely affect the other Party’s rights under this Agreement or impose a financial obligation upon the other Party or grant rights in respect of or affect the validity or enforceability of the other Party’s Patents or Know-How, then any settlement, consent judgment or other voluntary final disposition of such Third Party Infringement Claim shall not be entered into without the written consent of the other Party.

4.7.3 Costs and expenses. KK shall bear all costs and expenses to defend against any Third Party Infringement Claim in the KK Territory and Tempus shall bear all costs and expenses to defend against any Third Party Infringement Claim in the Tempus Territory.

Article 5
BRANDING AND MARKETING

5.1 **Branding.** Unless otherwise directed by Tempus in writing or mutually agreed by the Parties, any product or service sold or offered for sale by the Licensed Business in the Field in the KK Territory that incorporates, is based on or derived from, any Tempus Technology (each, a “**Tempus-Powered Product**”), as well as any packaging, labeling, advertising and promotional material for such Tempus-Powered Product, shall be branded with a mutually agreeable combination of Tempus’s corporate trade name or logo (“**Tempus Corporate Marks**”) together with any relevant brand or mark of KK.

5.2 **License to Tempus Corporate Marks.** Subject to the terms and conditions of this Agreement, Tempus hereby grants to KK during the Term and solely with respect to the Licensed Business in the Field and within the KK Territory, a non-exclusive, [***].

5.3 **Royalty for Tempus Corporate Marks.** In consideration for the license granted by Tempus to KK under Section 5.2 (License to Use Tempus Corporate Marks), [***].

5.4 **Restrictions on Use.** [***].

5.5 **No Other Uses of Tempus Corporate Marks.** Except as expressly provided for in this Agreement, KK shall have no other right to use any of the Tempus Corporate Marks, or any derivative or partial use thereof, or any other trademarks of Tempus or any of its Affiliates, and KK shall not merge, co-join, or use any Tempus Corporate Mark in conjunction with any other trademark, including KK’s trademarks, unless otherwise approved by Tempus.

5.6 **Quality.** KK shall ensure that the quality of all products and services sold or offered for sale, including the Tempus-Powered Products, under the Tempus Corporate Marks shall be at least as high as the quality of similar products and services provided by Tempus.

5.7 **Goodwill.** The Tempus Corporate Marks, and any reputation and goodwill in them, are, and shall remain, the exclusive property of Tempus, and KK does not have and shall not in the future have, any right to use such Tempus Corporate Marks other than through this Agreement. All use of the Tempus Corporate Marks shall inure solely to the benefit of Tempus. Unless otherwise agreed by the Parties, KK shall not: (a) use the Tempus Corporate Marks or any word, symbol or design confusingly similar to the Tempus Corporate Marks, as part of its corporate or legal name or in connection with any product sold by KK (except as authorized under this Agreement); (b) do or suffer to be done any act or thing which will in any way impair the rights of Tempus in and to any Tempus Corporate Mark or damage, dilute, injure or impair the value of any Tempus Corporate Mark; (c) apply for any registration of any trademark or other designation which includes in whole or in part any Tempus Corporate Mark or any other trademark that is confusingly similar to a Tempus Corporate Mark or that otherwise would affect the ownership of any Tempus Corporate Mark, nor file any document with any Governmental Authority to take any action that would affect the ownership of any Tempus Corporate Mark; or (d) acquire or claim any title to any Tempus Corporate Mark adverse to Tempus by virtue of the rights granted to KK or through KK’s use of such Tempus Corporate Mark.

5.8 **Notification.** KK shall notify Tempus immediately of any adverse use of trademarks by any Third Party that is confusingly similar to any Tempus Corporate Mark, and of any infringement, imitation or passing off of any Tempus Corporate Mark, by any Third Party that comes to KK's attention. Tempus shall have the sole right (but not the obligation) to respond to such infringement, and KK shall reasonably cooperate with Tempus in connection with any such response, upon Tempus's request, provided that, if Tempus decides not to pursue action against such infringement, then Tempus may so notify KK in writing, [***].

Article 6 CONFIDENTIALITY

6.1 **Non-use and Non-disclosure of Confidential Information.** During the Term and thereafter, each Party ("**Receiving Party**") shall (a) except to the extent permitted by this Agreement or otherwise agreed to in writing by the Disclosing Party, keep confidential and not disclose any Confidential Information of the other Party ("**Disclosing Party**") to any Third Party; (b) except in connection with activities contemplated by, the exercise of rights permitted by, or in order to further the purposes of, this Agreement or as otherwise agreed to in writing by the Disclosing Party, not use for any purpose any Confidential Information of the Disclosing Party; and (c) take all reasonable precautions to protect the Confidential Information of the Disclosing Party (including all precautions the Receiving Party employs with respect to its own confidential information of a similar nature and taking reasonable precautions to assure that no unauthorized use or disclosure is made by others to whom access to the Confidential Information of the Disclosing Party is granted).

6.2 **Exclusions Regarding Confidential Information.** Notwithstanding anything set forth in this Article 6.7 (Confidentiality), to the contrary, Confidential Information excludes, and the obligations of Section 6.1 (Non-Use and Non-Disclosure of Confidential Information) shall not apply to, information that:

6.2.1 was already known to the Receiving Party, other than under an obligation of confidentiality, at the time of receipt by the Receiving Party;

6.2.2 was generally available to the public or otherwise part of the public domain at the time of its receipt by the Receiving Party;

6.2.3 became generally available to the public or otherwise part of the public domain after its receipt by the Receiving Party other than through any act or omission of the Receiving Party in breach of this Agreement;

6.2.4 was received by the Receiving Party without an obligation of confidentiality from a Third Party having the right to disclose such information without restriction;

6.2.5 was independently developed by or for the Receiving Party without use of or reference to the Confidential Information of the Disclosing Party; or

6.2.6 was released from the restrictions set forth in this Article 6 (Confidentiality) by express prior written consent of the Disclosing Party.

6.3 **Authorized Disclosures of Confidential Information.** Notwithstanding the foregoing, a Receiving Party may use and disclose the Confidential Information of the Disclosing Party as follows:

6.3.1 if required by law, rule or governmental regulation, including as may be required in connection with any filings made with, or by the disclosure policies of a major securities or stock exchange or securities listing organization; provided that the Receiving Party shall (a) to the extent permissible under Applicable Law, use Commercially Reasonable Efforts to inform the Disclosing Party prior to making any such disclosures and cooperate with the Disclosing Party in seeking a protective order or other appropriate remedy (including redaction) and (b) whenever possible, request confidential treatment of such information; or

6.3.2 to the extent necessary, to Affiliates, Sublicensees, attorneys, collaborators, vendors, consultants, lenders, commercial partners, accountants and subcontractors under written agreements of confidentiality on terms at least as restrictive on those set forth in this Agreement, who have a need to know such information in connection with the Receiving Party performing its obligations or exercising its rights under this Agreement.

6.4 **Terms of this Agreement; Technology.** The Parties agree that this Agreement and the terms hereof are Confidential Information of both Parties. The Tempus Technology is Confidential Information of Tempus. The KK Technology is Confidential Information of KK.

6.5 **No License.** Confidential Information disclosed hereunder shall remain the property of the Disclosing Party. Disclosure or receipt of Confidential Information shall not constitute any grant, option or license to the other Party, beyond those licenses expressly granted hereunder, under any patent, trade secret or other rights now or hereinafter held by the Disclosing Party.

Article 7 PUBLICITY

7.1 **Publicity.** Neither Party shall distribute any other press release or other public communication relating to this Agreement or the substance hereof without the written consent of the other Party, except that each Party may file such further disclosures in connection herewith as may be required by the rules of any applicable securities or stock exchange or securities listing organization.

7.2 **No Right to Use Names.** Except as expressly provided herein, or required by Applicable Law, neither Party may use in any manner the name or any trade name, symbol, logo, or trademark of the other Party without such other Party's written consent.

Article 8 REPRESENTATIONS AND WARRANTIES; AND COVENANTS

8.1 **Mutual Representations and Warranties.** Each Party represents and warrants, to the other Party as of the Effective Date that:

8.1.1 it is a company or corporation duly organized, validly existing, and in good standing under the laws of the jurisdiction in which it is incorporated, and has full corporate power and authority and the legal right to own and operate its property and assets and to carry on its business as it is now being conducted and as contemplated in this Agreement;

8.1.2 it has the corporate power and authority and the legal right to enter into this Agreement and perform its obligations hereunder, it has taken all necessary corporate action on its part required to authorize the execution and delivery of the Agreement and the performance of its obligations hereunder, and this Agreement has been duly executed and delivered on behalf of such Party, and constitutes a legal, valid, and binding obligation of such Party that is enforceable against it in accordance with its terms, subject to applicable bankruptcy, insolvency, moratorium, reorganization and similar laws affecting creditors' rights generally and to general equitable principles;

8.1.3 it is not a party to any agreement that conflicts with the licenses and other rights granted to the other Party under this Agreement, and its performance of this Agreement does not conflict with or breach the terms and conditions of any other agreement by which it is bound; and

8.1.4 it is not debarred or disqualified under the FD&C Act or comparable Applicable Laws in any country or jurisdiction other than the United States.

8.2 Representations and Warranties for Tempus. Tempus represents and warrants to KK as of the Effective Date, and, solely with respect to any representation or warranty regarding the Tempus Technology, if not specified as applicable as of the "Effective Date" then again on the date of any subsequent Continuing Technology Transfer pursuant to which additional Tempus Technology is provided to KK (but only with respect to such additional Tempus Technology and subject to any disclosure provided by Tempus in connection with such delivery):

8.2.1 (a) Tempus owns or has valid and enforceable rights to use all Tempus Technology, (b) Tempus has the power and authority to license or sublicense all Tempus Technology to KK in accordance with this Agreement; and (c) all intellectual property rights in and to the Tempus Technology are subsisting and have not been abandoned or adjudged invalid or unenforceable in whole or in part, and to the Knowledge of Tempus, valid, and enforceable;

8.2.2 Exhibit A includes all Tempus Patents that are Controlled by Tempus as of the Effective Date that are necessary or reasonably useful for KK's operation of the Licensed Business in the Field and in the KK Territory;

8.2.3 the Tempus Patents and the Tempus Know-How included in the Initial Technology Transfer and all Continuing Technology Transfers constitute all of the Patents and Know-How Controlled by Tempus that are necessary or reasonably useful for KK's operation of the Licensed Business in the Field and in the KK Territory;

8.2.4 there are no undisclosed pending or threatened (in writing), adverse actions, claims, suits or proceedings against Tempus involving the Tempus Technology licensed to KK hereunder that are reasonably likely to materially and adversely impact KK's exercise of its rights under this Agreement;

8.2.5 to the Knowledge of Tempus, the use or practice of the Tempus Technology by KK in the KK Territory as contemplated in this Agreement does not infringe or misappropriate any issued Patents or Know-How owned or controlled by a Third Party, and Tempus has not received any written notice from a Third Party asserting or alleging any of the foregoing;

8.2.6 all applicable and material fees and filings due prior to the Effective Date in connection with the prosecution and maintenance of the Tempus Patents listed in Exhibit A and the Tempus Corporate Marks, in each case in the KK Territory, have been completed;

8.2.7 (a) the development of the Tempus Technology (including the training and fine-tuning of any foundation models included within the Tempus Technology) does not involve the use or other processing of data or information (including data or information that was collected or generated using web scraping, web crawling or web harvesting) in a manner that violates any Applicable Laws or any contract to which Tempus or any of its Affiliates is a party or otherwise bound; (b) Tempus and each of its Affiliates maintains and adheres to, reasonable policies and procedures relating to the ethical, trustworthy and responsible use and deployment of AI-related technologies and regularly audits its compliance with such policies and procedures; and (c) there has been no actual or alleged material non-compliance with any such policies and procedures, and neither Tempus nor any of its Affiliates has received any request for information or testimony from any Governmental Authority concerning any Tempus Technology; and

8.2.8 none of the software or systems contained within the Tempus Technology (a) contains any malicious code, virus, Trojan horse, bug, vulnerability, corruptant, defect or error that materially and adversely affects the use, functionality, security or performance of the Tempus Technology or (b) fails to comply with any applicable specifications or other contractual commitment relating to the use, functionality or performance of the Tempus Technology, in each case of (a) and (b), in any material respect.

8.3 **Mutual Covenants.** Each Party covenants to the other Party that during the Term:

8.3.1 it shall not enter into any agreement that would conflict with the terms and conditions of this Agreement;

8.3.2 in the course of performing its obligations or exercising its rights under this Agreement, it shall comply with all Applicable Laws, and shall not employ or engage any person or entity who has been debarred by any Regulatory Authority or otherwise excluded by any Governmental Authority from participating in any program sponsored or administered by a Governmental Authority, or, to such Party's knowledge, is the subject of debarment or exclusion proceedings or investigation by a Regulatory Authority or other Governmental Authority; and

8.3.3 it shall not knowingly employ or use, directly or indirectly, including through Affiliates or (sub)licensees or subcontractors, the services of any person who is debarred or disqualified in connection with the activities contemplated by this Agreement, and in the event that it becomes aware of the debarment or disqualification or threatened debarment or disqualification of any person providing services to such Party, directly or indirectly, including through Affiliates or (sub)licensees or subcontractors, which directly or indirectly relate to activities contemplated by this Agreement, it shall promptly notify the other Party in writing and it shall cease employing, contracting with, or retaining any such person to perform any such services.

8.4 **Disclaimers.** EXCEPT AS OTHERWISE EXPRESSLY STATED IN THIS AGREEMENT, NEITHER PARTY MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND WITH RESPECT TO PATENTS, KNOW-HOW, MATERIALS OR CONFIDENTIAL INFORMATION SUPPLIED BY IT TO THE OTHER PARTY HEREUNDER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT.

Article 9 INDEMNIFICATION

9.1 **Indemnification by KK.** KK shall indemnify, defend and hold harmless Tempus, its Affiliates, and their directors, officers, employees, (individually and collectively, the “**Tempus Indemnitee(s)**”) from and against all losses, liabilities, damages and expenses (including reasonable attorneys’ fees and costs) incurred in connection with any claims, demands, actions or other proceedings by any Third Party (individually and collectively, “**Losses**”) to the extent arising from:

9.1.1 the operation of the Licensed Business in the Field in the KK Territory, including any development, manufacture or commercialization of products or services by or on behalf of KK or any of its Affiliates or Sublicensees, including product liability claims (except to the extent attributable to any defect in the Tempus Technology in the form delivered by Tempus to KK); or

9.1.2 the gross negligence, wilful misconduct or breach of this Agreement (including any representations, warranty or covenant of KK) by any KK Indemnitee;

9.1.3 except in each case to the extent such Losses arise out of the wilful misconduct or breach of this Agreement by any Tempus Indemnitee or to the extent subject to an indemnification obligation by Tempus.

9.2 **Indemnification by Tempus.** Tempus shall indemnify, defend and hold harmless KK, its Affiliates, and their directors, officers, employees and agents (individually and collectively, the “**KK Indemnitee(s)**”) from and against all Losses to the extent arising from:

9.2.1 The gross negligence, wilful misconduct or breach of this Agreement (including any representations, warranty or covenant of Tempus) by any Tempus Indemnitee; or

9.2.2 infringement, misappropriation, or other violation of a third party’s intellectual property right arising from KK’s use or practice of the Tempus Technology as contemplated in this Agreement (each an “**Indemnifiable IP Infringement Claim**”), [***];

9.2.3 except, in the case of Losses under Section 9.2.2, to the extent such Losses arise out of (i) any Tempus Technology modified without Tempus’ approval; (ii) the use of any Tempus Technology in combination with materials not provided by Tempus; or (iii) the use of any Tempus Technology other than as permitted under this Agreement or the Business Plan (as defined in the JV Agreement).

9.2.4 and, except in each case in Section 9.2.1 and 9.2.2 to the extent such Losses arise out of the negligence, wilful misconduct or breach of this Agreement by any KK Indemnitee or to the extent subject to an indemnification obligation by KK.

9.3 Indemnification Procedure. If either Party is seeking indemnification under Section 9.1 (Indemnification by KK) or Section 9.2 (Indemnification by Tempus) (the “**Indemnified Party**”), it shall inform the other Party (the “**Indemnifying Party**”) of the claim giving rise to the obligation to indemnify promptly given the circumstances after receiving notice of the claim (it being understood and agreed, however, that the failure or delay by an Indemnified Party to give such notice of a claim shall not affect the indemnification provided hereunder except to the extent the Indemnifying Party shall have been actually and materially prejudiced as a result of such failure or delay to give notice). The Indemnifying Party shall have the sole right to assume and control the defense of any such claim for which it is obligated to indemnify the Indemnified Party. The Indemnified Party shall cooperate with the Indemnifying Party and the Indemnifying Party’s insurer as the Indemnifying Party may reasonably request, and at the Indemnifying Party’s cost and expense. The Indemnified Party shall have the right to participate, at its own expense and with counsel of its choice, in the defense of any claim that has been assumed by the Indemnifying Party. Neither Party shall have the obligation to indemnify the other Party in connection with any settlement made without the Indemnifying Party’s written consent, which consent shall not be unreasonably withheld or delayed.

9.4 Mitigation of Loss. Each Indemnified Party shall take and shall procure that its Affiliates take all such reasonable steps and action as are reasonably necessary or as the Indemnifying Party may reasonably require in order to mitigate any claims (or potential losses or damages) under this Article 10 (Indemnification). Nothing in this Agreement shall or shall be deemed to relieve any Party of any common law or other duty to mitigate any losses incurred by it. Without limiting the foregoing, and without limitation to either Party’s other remedies under this Agreement, if any of the Tempus Technology is, or in Tempus’s opinion is likely to be, claimed to infringe, misappropriate or otherwise violate any third-party intellectual property right, or if KK’s use of the Tempus Technology is enjoined or threatened to be enjoined, Tempus may, at its option and sole cost and expense:

9.4.1 obtain the right for KK to continue to use the affected Tempus Technology as contemplated by this Agreement;

9.4.2 modify or replace the affected Tempus Technology, in whole or in part, to make the affected Tempus Technology (as so modified or replaced) non-infringing, without any material degradation of features and functionality; or

9.4.3 if Tempus reasonably determines that neither of the options set forth in Section 9.4.1 or Section 9.4.2 are technically feasible or commercially reasonable, then the Parties shall discuss in good faith regarding a mutually acceptable solution for up to [***] days upon Tempus’ written notice to KK, and, if no mutually acceptable solution is agreed during such [***] period, then by written notice to KK, Tempus may terminate KK’s license to the affected Tempus Technology and require KK to immediately cease any use of such affected Tempus Technology, subject to Tempus providing KK with an equitable financial refund (as determined based on a valuation conducted by a third party mutually agreed upon by the Parties, and calculated as a

percentage of the fees paid to Tempus hereunder) for the affected Tempus Technology, less depreciation calculated on a straight line basis over a [***] period from the Effective Date; provided that following such termination the Parties shall continue to consider any mutually acceptable solutions in good faith unless both Parties agree no reasonable solution is available or otherwise agree to discontinue discussions.

9.5 Limitation of Liability. EXCEPT FOR DAMAGES AWARDED TO A THIRD PARTY IN A CLAIM SUBJECT TO THE INDEMNIFICATION PROVISIONS OF SECTION 9.1 (INDEMNIFICATION BY KK) OR SECTION 9.2 (INDEMNIFICATION BY TEMPUS), ATTRIBUTABLE TO A PARTY'S FRAUD, GROSS NEGLIGENCE, WILFUL MISCONDUCT, OR ATTRIBUTABLE TO A PARTY'S BREACH OF ARTICLE 6 (CONFIDENTIALITY), (A) NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR ANY SPECIAL, CONSEQUENTIAL (WHICH SHALL INCLUDE WITHOUT LIMITATION, ALL DAMAGES CONSTITUTING LOSS OF PROFIT, LOSS OF REVENUE AND LOSS OF GOODWILL), INCIDENTAL, PUNITIVE, OR INDIRECT DAMAGES ARISING FROM OR RELATING TO ANY BREACH OF THIS AGREEMENT, REGARDLESS OF ANY NOTICE OF THE POSSIBILITY OF SUCH DAMAGES; AND (B) NEITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT SHALL EXCEED [***].

Article 10 TERM AND TERMINATION

10.1 Term. The term of this Agreement (the "**Term**") shall commence on the Effective Date and, unless terminated earlier as set forth in this Article 10 (Term and Termination), shall remain in effect for as long as the JVA is in effect.

10.2 Termination.

10.2.1 Termination for Material Breach. Each Party (the "**Non-Breaching Party**") shall have the right to terminate this Agreement upon written notice to the other Party (the "**Breaching Party**") if such Breaching Party has materially breached a term of Section 2.2 (Sublicenses), Sections 2.3 (KK Covenants), 3.1 (Upfront Payment), Article 5 (Branding and Marketing) but excluding Section 5.1 (Branding) and Section 5.8 (Notification), Article 6 (Confidentiality), Article 8 (Representations and Warranties; and Covenants), Article 9 (Indemnification), Section 12.5 (Assignment) or Section 12.6 (Anti-Corruption Law and Compliance) and, after receiving written notice from the Non-Breaching Party identifying such material breach, fails to cure such material breach within [***] from the date of such notice unless the Parties mutually agree in writing to an extension of such cure period.

10.2.2 Termination for Insolvency. Each Party shall have the right to terminate this Agreement upon written notice to the other Party if the other Party makes a general assignment for the benefit of creditors, appoints or suffers appointment of a receiver or trustee over all or substantially all of its property, files a petition under any bankruptcy or insolvency act or has any such petition filed against it which is not dismissed, discharged, bonded or stayed within [***] days after the filing thereof.

10.3 Effects of Termination. In the event of expiration or termination of this Agreement by either Party for any reason: (a) the licenses granted by Tempus to KK hereunder shall terminate as of the effective date of expiration or termination, and KK shall immediately cease all use of the Tempus Technology and Tempus Corporate Marks; provided that, unless this Agreement is terminated due to (i) insolvency of KK in accordance with Section 10.2.2 (Termination for Insolvency) or (ii) KK's material breach in accordance with Section 10.2.1 (Termination for Material Breach), KK and its Affiliates and Sublicensees may continue to use any Tempus Technology provided to KK as of the date of termination, and the license granted to KK in Section 2.1 (License Grant to KK) (together with the terms of Section 2.2 (Sublicenses), Section 2.3 (KK Covenants) and Section 2.4 (Reservation of Rights)) shall continue in effect solely with respect to such Tempus Technology, provided further that, Section 10.2 (Termination) shall apply with respect to such license *mutatis mutandis*; (b) at the Disclosing Party's election, the Receiving Party shall return (at Disclosing Party's expense) or destroy all tangible materials comprising, bearing, or containing any Confidential Information of the Disclosing Party that are in the Receiving Party's or its Affiliates' or Sublicensees' possession or control and provide written certification of such destruction (except to the extent any information is the Confidential Information of both Parties or to the extent that the Receiving Party has the continuing right to use the Confidential Information under this agreement); provided that, (i) the Receiving Party may retain one copy of such Confidential Information for its legal archives (subject to the obligations of confidentiality under Article 6 (Confidentiality)) and (ii) KK may continue to use Tempus Confidential Information solely to the extent necessary to exercise its rights to the Tempus Technology as provided in (a); and (c) unless the license under the Tempus Corporate Marks set forth in Section 5.2(b) (License to Tempus Corporate Marks) has already terminated as a result of Tempus no longer being a shareholder in KK, KK and its Affiliates and subsidiaries may continue to use the Tempus Corporate Marks for a period of [***], solely in accordance with and subject to the terms of Article 5 (Branding and Marketing), which shall continue in effect solely with respect to such use of the Tempus Corporate Marks during such [***], provided that, Section 10.2 (Termination) shall apply with respect to such license *mutatis mutandis*. Notwithstanding any provision to the contrary set forth in this Agreement, the Receiving Party shall not be required to destroy electronic files containing such Confidential Information that are made in the ordinary course of its business information back-up procedures pursuant to its electronic record retention and destruction practices that apply to its own general electronic files and information.

10.4 Survival. Expiration or termination of this Agreement shall not relieve the Parties of any representation, warranty, or obligation accruing prior to such expiration or termination. Without limiting the foregoing, the following provisions shall survive the termination or expiration of this Agreement for any reason: Article 1 (Definitions), Article 3 (Financial Terms) (solely with respect to payment obligations accrued prior to the termination or expiration of this Agreement), Article 6 (Confidentiality), Article 9 (Indemnification), Article 11 (Dispute Resolution), and Article 12 (Miscellaneous) (other than Section 12.6 (Anti-Corruption Law Compliance)), and Section 2.1 (License Grant to KK) solely to the extent set forth in Section 10.3(a) (Effects of Termination) (unless this Agreement is terminated by Tempus pursuant to Section 10.2 (Termination)), Section 2.2 (Sublicenses) (only if Section 2.1 (License Grant to KK) survives), Section 2.3 (KK Covenants) (only if Section 2.1 (License Grant to KK) survives), Section 2.4 (Reservation of Rights) (only if Section 2.1 (License Grant to KK) survives), Section 2.5 (License Grant to Tempus), Section 2.7 (Rights in Bankruptcy), Section 10.3 (Effects of Termination), Section 10.4 (Survival), and any other provisions that by their nature survive termination or expiration of this Agreement.

10.5 **Termination Not Sole Remedy.** Termination is not the sole remedy under this Agreement and, whether or not termination is effected and notwithstanding anything contained in this Agreement to the contrary, all other remedies shall remain available except as agreed to otherwise herein.

Article 11
DISPUTE RESOLUTION

All disputes arising between the Parties arising from or related to this Agreement, including without limitation any alleged failure to perform, or breach, of this Agreement, or any issue relating to the interpretation or application of this Agreement, or any question regarding its existence, validity or termination, shall be addressed in accordance with the dispute resolution process set forth in the JVA, except that governing law shall be determined in accordance with Section 12.1 (Governing Law) and not any governing law provision of the JVA.

Article 12
MISCELLANEOUS

12.1 **Governing Law.** This Agreement shall be governed by and interpreted in accordance with the laws of the state of Delaware, USA, except matters concerning Patents in the KK Territory, which shall be governed by the laws of Japan, in either case, without reference to conflicts of laws provisions, rules or principles thereof (or any other jurisdiction) to the extent that such provisions, rules or principles would direct a matter to another jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to the transactions contemplated by this Agreement.

12.2 **Performance Through Affiliates.** Each Party may discharge any obligation and exercise any right hereunder through any of its Affiliates (without an assignment of this Agreement). Each Party shall remain directly liable to the other Party with respect to the performance, acts and omissions of any of its Affiliates.

12.3 **Force Majeure.** Neither Party shall be held liable to the other Party nor be deemed to have defaulted under or breached this Agreement for failure or delay in performing any obligation under this Agreement to the extent such failure or delay is caused by or results from causes beyond the reasonable control of the affected Party, potentially including embargoes, war, acts of war (whether war be declared or not), acts of terrorism, insurrections, riots, civil commotions, strikes, lockouts, quarantine, or other labor disturbances, fire, floods, earthquakes, pandemic, or other acts of God, or acts, generally applicable action or inaction by any Governmental Authority (but excluding any government action or inaction that is specific to such Party, its Affiliates or Sublicensees, such as revocation or non-renewal of such Party's license to conduct business). The affected Party shall notify the other Party in writing of such force majeure circumstances as soon as reasonably practical, and shall promptly undertake and continue diligently all Commercially Reasonable Efforts necessary to cure such force majeure circumstances or to perform its obligations in spite of the ongoing circumstances.

12.4 **Notices.** Except as otherwise expressly provided in this Agreement, any notice required under this Agreement shall be in writing and shall specifically refer to this Agreement. Notices shall be sent via one of the following means and will be effective (a) on the date of delivery, if delivered in person, (b) on the date of receipt, if sent by private express courier or by first class certified mail, return receipt requested or (c) on the date when the confirmation of receipt of the other Party is sent by email, if sent by email to the correct email address. Notices shall be sent to the other Party at the addresses set forth below. Either Party may change its addresses for notice by sending written notice to the other Party.

If to KK:

Pegasos Corp.
Tokyo Port City Takeshiba Office Tower
1-7-1 Kaigan, Minato-ku
Tokyo, Japan 105-7537
Attention: Kotaro Ueno
E-mail: [***]

With a copy (which copy will not constitute notice) to:
Morrison & Foerster LLP

Shin-Marunouchi Building, 29th Floor
5-1, Marunouchi 1-Chome, Chiyoda-ku
Tokyo, Japan 100-6529
Attn: Kenneth A. Siegel
Email: ksiegel@mofo.com

and

Morrison & Foerster LLP
425 Market Street
San Francisco, CA 94105-2482
Attn: Erik G. Knudsen
Email: eknudsen@mofo.com

If to Tempus:

600 West Chicago Avenue, Suite 510
Chicago, Illinois 60654
Attn: General Counsel
Email: [***]

12.5 **Assignment.**

12.5.1 Neither this Agreement nor any obligation of a Party hereunder may be assigned by either Party without the prior written consent of the other Party; provided, however, that either Party may, without the other Party's written consent, assign this Agreement and its rights and obligations hereunder in its entirety to (a) any of its Affiliates, or (b) any purchaser of all, or

substantially all, of its assets to which this Agreement relates, or (c) any successor corporation resulting from any merger, consolidation, share exchange, or other similar transaction, provided that in each case of (a), (b), and (c), the assignee shall agree in writing to assume all obligations of its assignor under this Agreement. This Agreement will inure to the benefit of KK and Tempus and their respective successors and permitted assigns. Any assignment of this Agreement that is not made in accordance with this Section 12.5 (Assignment), shall be null and void and of no legal force or effect.

12.5.2 Notwithstanding anything herein to the contrary, in the event of (a) a transaction by a Party described in Section 12.5.1(b) or Section 12.5.1(c), or (b) the acquisition by a Party or any of its Affiliates of all or substantially all of the business of a Third Party (such Third Party, an “**Acquiree**”), whether by merger, consolidation, divestiture, restructure, sale of stock, sale of assets or otherwise, the intellectual property of the acquiring entity or the Acquiree, as applicable, and their respective Affiliates, which exists immediately prior to the consummation of such transaction or is developed or acquired thereafter without use of the other Party’s Confidential Information, Know-How or Patents (other than, in the event of (a) a transaction by a Party described in Section 12.5.1(b) or Section 12.5.1(c), intellectual property developed after the consummation of such transaction that are solely related to the assets or business assigned to the acquiring entity), shall not be included in the intellectual property licensed hereunder or otherwise subject to this Agreement.

12.6 Anti-Corruption Law Compliance. Each Party acknowledges that it is aware of, and agrees to abide by, the obligations imposed by Applicable Laws relating to the payment or transfer of anything of value to governments, government officials, political parties or political party officials (or relatives or associates of such officials) (“**Covered Person**”) for the purpose of obtaining or retaining business for or with, or directing business to, any person. Such laws include the U.S. Foreign Corrupt Practices Act, UK Bribery Act of 2010, Japan Unfair Competition Prevention Act, OECD Anti-Bribery Convention, and other anti-corruption or anti-bribery laws now in effect or as may come into effect from time to time during the Term (collectively, “**Anti-Corruption Laws**”). By signing this Agreement, each Party represents, warrants and covenants (as applicable) to the other Party that:

12.6.1 it is familiar with the provisions and restrictions contained in the Anti-Corruption Laws as now in effect and will familiarize itself with any changes or additions thereto as may be enacted or promulgated following the date of this Agreement;

12.6.2 it shall at all times comply with the Anti-Corruption Laws applicable to it and shall put in place practices, policies and procedures designed to ensure such compliance and to identify any incident of non-compliance;

12.6.3 it shall notify the other Party immediately upon becoming aware of any breach of, or failure to comply with, any Anti-Corruption Law, in connection with the performance of its obligations under this Agreement;

12.6.4 it shall not, in the course of its duties under this Agreement, offer, promise, give, demand, seek or accept, directly or indirectly, any gift or payment, consideration or benefit in kind to any Covered Person that would or could be construed as an illegal or corrupt practice;

12.6.5 it is not a Covered Person or not acting on behalf of any Covered Person; and

12.6.6 it shall immediately notify the other Party of any attempt by any Covered Person to directly or indirectly solicit, ask for, or attempt to extort anything of value from it, its Affiliates or Sublicensees, and shall refuse any such solicitation, request or extortionate demand except a facilitating payment as expressly permitted under the Anti-Corruption Laws.

12.7 **Independent Contractors.** The Parties are independent contractors, and nothing contained in this Agreement shall be deemed or construed to create a partnership, joint venture, employment, franchise, agency or fiduciary relationship between the Parties.

12.8 **Entire Agreement; Amendments.** The JVA, the other ancillary agreements to the JVA and this Agreement, together with the Exhibits hereto and thereto, contain the entire understanding of the Parties with respect to the licenses granted herein. Any other express or implied agreements and understandings, negotiations, writings and commitments, either oral or written, in respect to the collaboration and the licenses granted hereunder are superseded by the terms of this Agreement. The Exhibits to this Agreement are incorporated herein by reference and shall be deemed a part of this Agreement. This Agreement may be amended, or any term hereof modified, only by a written instrument duly executed by authorized representative(s) of both Parties hereto. The Parties agree that, effective as of the Effective Date, the Non-Disclosure Agreement dated February 28, 2023 between the Parties shall be superseded by this Agreement, and that disclosures made prior to the Effective Date shall be subject to the confidentiality and non-use provisions of this Agreement.

12.9 **Amendment; Waiver.** Except as otherwise expressly provided herein, no alteration of or modification to this Agreement shall be effective unless made in writing and executed by an authorized representative of each Party. No course of dealing or failing of either Party to strictly enforce any term, right or condition of this Agreement in any instance shall be construed as a general waiver or relinquishment of such term, right or condition. The observance of any provision of this Agreement may be waived (either generally or any given instance and either retroactively or prospectively) only with the written consent of the Party granting such waiver.

12.10 **Further Assurances.** Upon the other Party's request, each Party agrees to execute, acknowledge, and deliver such further instruments, and to do all such other acts, as may be reasonably agreed by the Parties as necessary or appropriate to carry out the purposes and intent of this Agreement.

12.11 **Severability.** The Parties do not intend to violate any public policy or statutory or common law. However, if any sentence, paragraph, clause or combination of this Agreement is in violation of any law or is found to be otherwise unenforceable, such sentence, paragraph, clause or combination of the same shall be deleted and the remainder of this Agreement shall remain binding, provided that such deletion does not alter the basic purpose and structure of this Agreement.

12.12 **Construction.** The Parties mutually acknowledge that they and their attorneys have participated in the negotiation and preparation of this Agreement. Ambiguities, if any, in this Agreement shall not be construed against any Party, irrespective of which Party may be deemed to have drafted this Agreement or authorized the ambiguous provision.

12.13 **Language; Translations.** This Agreement is in the English language only, which language will be controlling in all respects, and all versions hereof in any other language will be for accommodation only and will not be binding upon the Parties. All communications and notices to be made or given by one Party to the other pursuant to this Agreement, and any dispute proceeding related to or arising hereunder, will be in the English language. If there is a discrepancy between any translation of this Agreement and any non-English translation of this Agreement, this Agreement will prevail.

12.14 **Interpretation.** The captions and headings to this Agreement are for convenience only and are to be of no force or effect in construing or interpreting any of the provisions of this Agreement. Except where the context expressly requires otherwise, (a) the use of any gender herein will be deemed to encompass references to either or both genders, and the use of the singular will be deemed to include the plural (and vice versa), (b) the words “include,” “includes,” and “including” will be deemed to be followed by the phrase “without limitation,” (c) the word “will” will be construed to have the same meaning and effect as the word “shall,” (d) any definition of or reference to any agreement, instrument, or other document herein will be construed as referring to such agreement, instrument, or other document as from time to time amended, supplemented, or otherwise modified (subject to any restrictions on such amendments, supplements or modifications set forth herein), (e) any reference herein to any person will be construed to include the person’s successors and assigns, (f) the words “herein,” “hereof,” and “hereunder” and words of similar import, will each be construed to refer to this Agreement in its entirety and not to any particular provision hereof, (g) all references herein to Articles, Sections, Schedules, or Exhibits will be construed to refer to Articles, Sections, Schedules, or Exhibits of this Agreement, and references to this Agreement include all Schedules hereto, (h) the word “notice” means notice in writing (whether or not specifically stated) and will include notices, consents, approvals and other written communications contemplated under this Agreement, (i) provisions that require that a Party, the Parties or any committee hereunder “agree,” “consent,” “approve,” or the like will require that such agreement, consent, or approval be specific and in writing, whether by written agreement, letter, approved minutes, or otherwise (but excluding e-mail and instant messaging), (j) references to any specific law, rule or regulation, or Section or other division thereof, will be deemed to include the then-current amendments thereto or any replacement or successor law, rule or regulation thereof, and (k) the term “or” will be interpreted in the inclusive sense commonly associated with the term “and/or.”

12.15 **Counterparts.** This Agreement may be executed in two or more counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument. This Agreement may be executed and delivered electronically or by facsimile and upon such delivery such electronic or facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other Party. For purposes hereof, an electronic or facsimile copy of this Agreement, including the signature pages hereto, will be deemed to be an original. Notwithstanding the foregoing, the Parties shall deliver original execution copies of this Agreement to one another as soon as practicable following execution thereof.

[Signature page follows – the rest of this page intentionally left blank.]

IN WITNESS WHEREOF, the Parties have executed this Agreement by their respective officers hereunto duly authorized.

Tempus AI, Inc.

By: /s/ Jim Rogers
Name: Jim Rogers
Title: Treasurer and Chief Financial Officer

Pegasos Corp.

By: /s/ Ippei Mimura
Name: Ippei Mimura
Title: Representative Director

Schedule 1.30
TEMPUS KNOW-HOW

[***]

EXHIBIT A
TEMPUS PATENTS

[***]

CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [***], HAS BEEN OMITTED BECAUSE TEMPUS AI, INC. HAS DETERMINED THE INFORMATION (I) IS NOT MATERIAL AND (II) IS THE TYPE THAT TEMPUS AI, INC. TREATS AS PRIVATE OR CONFIDENTIAL.

Amendment No. 1 to Strategic Collaboration Agreement

This Amendment No. 1 to the Strategic Collaboration Agreement (“Amendment”) is made by and between GlaxoSmithKline LLC (“GSK”) and Tempus AI, Inc. (“Tempus”) and amends the Strategic Collaboration Agreement between the Parties with an effective date of August 1, 2022 (the “Agreement”). Capitalized terms used herein and not otherwise defined have the meanings provided in the Agreement.

Background

Tempus and GSK have agreed to revise the terms of the Agreement to extend the Initial Term. Accordingly, the Parties have agreed to amend the Agreement as set forth below.

Agreement

In consideration of the mutual promises described below, the Parties agree as follows:

1. **Term.** Section 10 of the Agreement shall be deleted in its entirety and replaced with the following new Section 10:

*This Agreement shall be effective as of the Effective Date and unless terminated earlier by mutual written agreement of the Parties (either in its entirety, including all Task Orders then in effect by terminating such Task Orders, or with respect to one or more Task Order(s) by terminating such Task Order(s) or pursuant to Section 11 below, the term of this Agreement shall continue in effect until December 31, 2027 (“**Initial Term**”). Thereafter, GSK shall have the option to renew this Agreement for an additional three (3) year term (the “**Renewal Term**”, and together with the Initial Term, the “**Term**”) by providing Tempus with written notice of renewal at least ninety (90) days prior to the end of the Initial Term. Notwithstanding the foregoing, the term of each Task Order (including any Task Order entered into pursuant to Section 24.5(i)) shall commence as of the applicable Task Order Effective Date set forth on the applicable Task Order and this Agreement shall remain in effect with respect to such Task Order until the earlier of (a) the completion of the Activities to be performed pursuant to the applicable Task Order, or (b) the termination of such Task Orders pursuant to Section 11 (each, a “**Task Order Term**”), notwithstanding any termination or expiration of this Agreement pursuant to the first two (2) sentences of this Section 10.*

2. **Payments.**

- a. Section 24.2(ii) of the Agreement shall be deleted in its entirety and replaced with the following new Section 24.2(ii):

*For purposes of this Section 24.2, the “**Initial Funding Term**” shall mean the period commencing on the first day of the first calendar quarter beginning after the occurrence of the Quarterly Funding Trigger (the “**Trigger Date**”) and ending on December 31, 2027. The “**Funding Term**” shall mean the Initial Funding Term and any Additional Funding Term pursuant to Section 24.3.*

- b. Section 24.2(iv) of the Agreement shall be deleted in its entirety and replaced with the following new Section 24.2(iv):

*During the Initial Funding Term, the Quarterly Funding Payment shall be an amount equal to [***]. The amount of the Quarterly Funding Payment shall be subject to adjustment pursuant to Section 24.4 and in no event shall any Quarterly Funding Payment exceed [***] during the Funding Term. The Parties anticipate that the Service Fees may be accrued annually on the following approximate schedule: \$[***] in 2022, \$[***] in 2023, \$[***] in 2024, \$[***] in 2025, \$[***] in 2026 and \$[***] in 2027;*

provided, that the foregoing schedule shall not impose any commitment or obligation on the part of GSK to incur any Service Fees in accordance with any such timeline or schedule (except as otherwise expressly set forth in this Agreement) and GSK shall have the sole discretion to determine the accrual of any such Service Fees, subject to Section 24.2(v) below.

c. Section 24.3 of the Agreement shall be deleted in its entirety and replaced with the following new Section 24.3:

*If GSK elects, in its sole discretion, at any time prior to the end of the Term, to extend the Term for an additional three (3) years in accordance with Section 10 (the "Additional Funding Term"), then GSK shall make an aggregate amount of Quarterly Funding Payments during the Additional Funding Term initially equal to One Hundred Twenty Million Dollars (\$120,000,000) (such amount, as may be adjusted pursuant to Section 24.4, the "Additional Funding Commitment") and the Quarterly Funding Payment for each calendar quarter during the Additional Funding Term shall initially be equal to [***], subject, in each case, to adjustment pursuant to Section 24.4.*

3. **Incorporation.** Except as otherwise provided in this Amendment, all terms and conditions previously set forth in the Agreement will remain in effect as set forth in the Agreement. If this Amendment and the Agreement are inconsistent, the terms and provisions of this Amendment will supersede the terms and provisions of the Agreement, but only to the extent necessary to satisfy the purposes of this Amendment.
4. **Governing Law.** This Amendment shall be governed by and construed in accordance with the laws of Delaware, USA, without reference to conflicts of law principles.

This Amendment is effective as of the later date of signature below.

GlaxoSmithKline LLC

By: /s/ [***]
Name: [***]
Title: [***]
Date: 20-May-2024

Tempus AI, Inc.

By: /s/ Ryan Bartolucci
Name: Ryan Bartolucci
Title: CAO
Date: 14-May-2024

Subsidiaries of Tempus Labs, Inc.

Name of Subsidiary	Jurisdiction of Organization
Tempus Compass, LLC (f/k/a Highline Consulting, LLC)	United States (California)
Tempus Labs Singapore PTE. LTD	Singapore
Tempus Labs Spain, SL	Spain
Arterys Inc.	United States (Delaware)
Arterys Inc. (Canada)	Canada
Arterys SAS (France)	France
Mpirik, Inc.	United States (Delaware)
SEngine Precision Medicine, LLC	United States (Delaware)

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the use in this Amendment No. 1 to the Registration Statement on Form S-1 of Tempus AI, Inc. of our report dated February 28, 2024 relating to the financial statements of Tempus AI, Inc., which appears in this Registration Statement. We also consent to the reference to us under the heading "Experts" in such Registration Statement.

/s/ PricewaterhouseCoopers LLP
Chicago, Illinois
June 5, 2024

Calculation of Filing Fee Tables

Form S-1

Tempus AI, Inc.

Table 1: Newly Registered Securities

	Security Type	Security Class Title	Fee Calculation or Carry Forward Rule	Amount Registered(1)	Proposed Maximum Offering Price Per Unit(2)	Maximum Aggregate Offering Price(3)	Fee Rate	Amount of Registration Fee(4)
Fees to Be Paid	Equity	Class A common stock, par value \$0.0001 per share	457(a)	12,765,000	\$37.00	\$472,305,000	0.00014760	\$69,712.22
		Total Offering Amounts				\$472,305,000	—	\$69,712.22
		Total Fees Previously Paid						14,760.00(5)
		Total Fee Offsets				—	—	—
		Net Fee Due				—	—	\$54,952.22

- (1) Includes up to 1,665,000 additional shares that the underwriters have the option to purchase from the Registrant, if any.
- (2) Estimated solely for the purpose of computing the amount of the registration fee pursuant to Rule 457(a) under the Securities Act of 1933, as amended (the "Securities Act").
- (3) Includes the aggregate offering price of additional shares that the underwriters have the option to purchase from the Registrant, if any.
- (4) Calculated pursuant to Rule 457(a) under the Securities Act.
- (5) The Registrant previously paid a registration fee of \$14,760 in connection with the initial filing of this Registration Statement on Form S-1 on May 20, 2024.