# **S+** Simulations Plus

## Putting Clients First Drives Growth And Fuels Innovation

**INVESTOR DAY** 

NOVEMBER 14, 2023 NASDAQ: SLP

### Agenda



- OPENING REMARKS | SHAWN O'CONNOR, CEO
- PBPK & CHEMINFORMATICS | JOHN DIBELLA, M.S.
- CLINICAL PHARMACOLOGY & PHARMACOMETRICS | JILL FIEDLER-KELLY, M.S., FISOP, JONATHAN CHAUVIN, PH.D.
- QSP | BRETT HOWELL, PH.D.
- + REGULATORY STRATEGIES | JOHN DIBELLA, M.S.
  - SALES STRATEGY AND CLIENT APPROACH | JOSH FOHEY
  - M&A | SHAWN O'CONNOR, STEVE CHANG, M.S.
  - FINANCIAL OVERVIEW & GUIDANCE | WILL FREDERICK, CFO
  - ESG | WILL FREDERICK, CFO
  - Q&A
    - CLOSING REMARKS | SHAWN O'CONNOR, CEO



With the exception of historical information, the matters discussed in this presentation are forward-looking statements that involve a number of risks and uncertainties. Words like "believe," "expect" and "anticipate" mean that these are our best estimates as of this writing, but that there can be no assurances that expected or anticipated results or events will actually take place, so our actual future results could differ significantly from those statements. Factors that could cause or contribute to such differences include, but are not limited to: our ability to maintain our competitive advantages, acceptance of new software and improved versions of our existing software by our clients, the general economics of the pharmaceutical industry, our ability to finance growth, our ability to continue to attract and retain highly qualified technical staff, our ability to successfully integrate the recently acquired Immunetrics business with our own, as well as expenses we may incur in connection therewith, and a sustainable market. Further information on our risk factors is contained in our quarterly and annual reports and filed with the U.S. Securities and Exchange Commission.

# **Opening Remarks**

SHAWN O'CONNOR, CEO





# WE HAVE A LONG HISTORY OF INNOVATION IN BIOSIMULATION THAT IS TRANSFORMING DRUG DEVELOPMENT AND R&D

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WE HAVE A RICH FUTURE FOR GROWTH OPPORTUNITIES

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WE HAVE A HIGHLY EXPERIENCED SCIENTIFIC LEADERSHIP TEAM



WE ARE ALIGNED WITH OUR CLIENTS TO MEET DEMAND FOR FUTURE GROWTH



WE HAVE A STRONG FINANCIAL POSITION TO FUND OUR GROWTH

### SLP At A Glance



#### Leading Provider of Software and Consulting Services in the Biosimulation Market

Al-powered technology solutions optimize the outcomes of drug discovery, development, research, and regulatory submissions processes. Our software-based technology both models and simulates how drugs and diseases behave in humans and in other species.



### End-to-End Solutions Across the Development Life Cycle



#### Decrease development uncertainty, cost and time

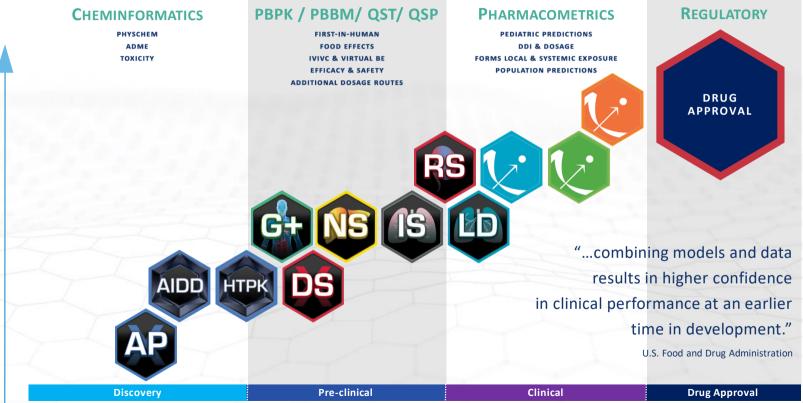
APPROVAL

DRUG

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LEVEL

CONFIDENCE





## To give you a better understanding of our expertise and capabilities in each of these scientific domains, future developments and directions and how we deliver value to our clients

#### **PUTTING CLIENTS FIRST DRIVES GROWTH AND INNOVATION**



#### Spending for biosimulation products continues to increase given need to bring drugs to market faster

#### \$200B global pharma AND BIOTECH SPEND (3% CAGR)<sup>1</sup>

\$9.8B BIOSIMULATION<sup>1</sup> TAM BY 2030

> \$700m-\$800m SLP addressable

- Biosimulation market valued at \$2.8B in 2022 and is expected to expand at a 16.9% CAGR from 2022 2030<sup>1</sup>
- Strategy to grow addressable market within the Biosimulation TAM through both internal R&D investment and strategic acquisitions
  - SLP is growing faster than the Biosimulation TAM
  - Biosimulation growing at 4-5x total R&D spend
- Highly fragmented and underpenetrated market with only a few larger players
  - The global biosimulation market is segmented based on product, application, delivery model, and end users.

### Drug Development Challenges | Biosimulation Solution



Our core mission – accelerating the development and delivery of better, safer, and more effective drugs

#### **CHALLENGES**



The median cost of developing a new drug averages \$1.5 to \$2 billion and the timeline can range from 10-15 years.



On average only 11% of all drug candidates are approved

## +

#### SIMULATIONS PLUS SOLUTIONS

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**Simulations Plus** offers AI-powered technology solutions to help optimize the outcomes of the drug discovery, development, research and regulatory approval processes to bring drugs to market faster

**Simulations Plus** solutions can help increase the number of candidates approved by streamlining the drug development process, creating efficiencies that lead to drug efficacy and safety, higher regulatory approval, improved commercial success and much more

#### How We View Artificial Intelligence

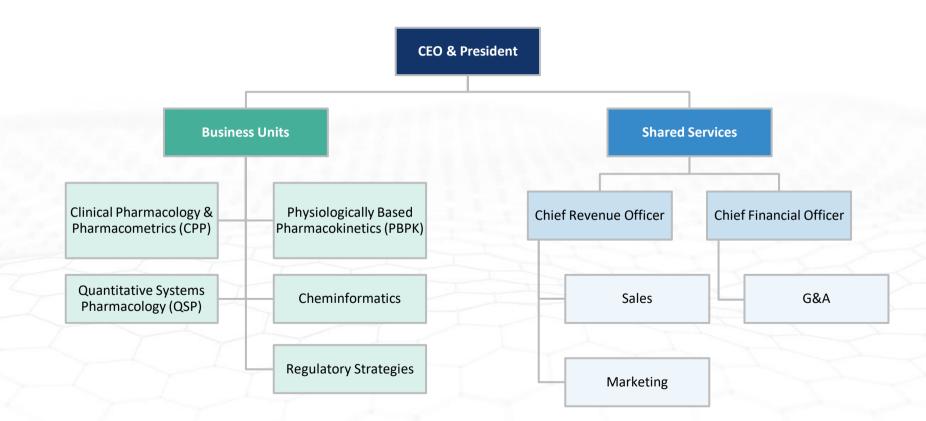
- We have been utilizing AI technics and approaches in our solutions since our beginning
- Data is key: our tenure in serving the drug development industry has provided significant access to data necessary to perfect and refine predictive algorithms with key partnerships and collaborations with industry leaders and regulatory agencies
- ADMET Predictor is the best example of our AI predictive capabilities
- Al enhancements that improve data analytics are a component of each of our scientific domains with improvements currently planned into the future
- We embrace the excitement and potential improvements that AI can and will bring to drug development
- We have and will continue to utilize AI technologies to enhance our products and services





- EXPAND OUR PRODUCTS AND SERVICES
- PURSUE STRATEGIC ACQUISITIONS
- GROW AT OR ABOVE MARKET
- GROW PROFITABILITY AT OR ABOVE TOP LINE GROWTH

#### New Organizational Structure



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#### Seasoned Management Team and Scientific Leadership

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# Highly experienced management team with deep life science industry expertise, track record of growth and strong returns



Shawn O'Connor Chief Executive Officer



Will Frederick Chief Financial Officer



Brett Howell, Ph.D. President Quantitative Systems Pharmacology Solutions (QSP)



Jill Fiedler-Kelly, M.S., FISOP President Clinical Pharmacology & Pharmacometrics Services Solutions (CPP)



John DiBella, M.S President Physiologically Based Pharmacokinetic (PBPK) Solutions, Cheminformatics Solutions, Regulatory Strategies Solutions



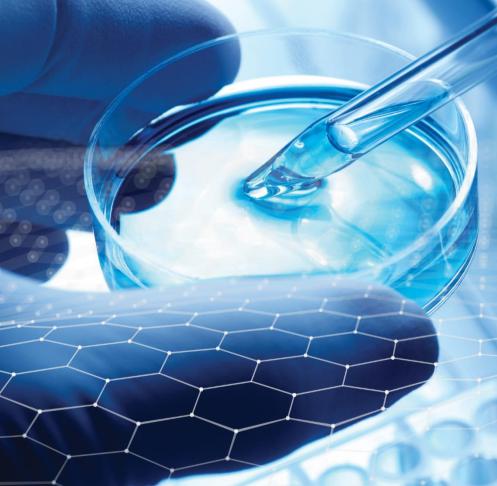
Josh Fohey Vice President, Business Development



Jonathan Chauvin, Ph.D. President Clinical Pharmacology & Pharmacometrics Software Solutions (CPP)



Steve Chang, M.S. President Immunetrics



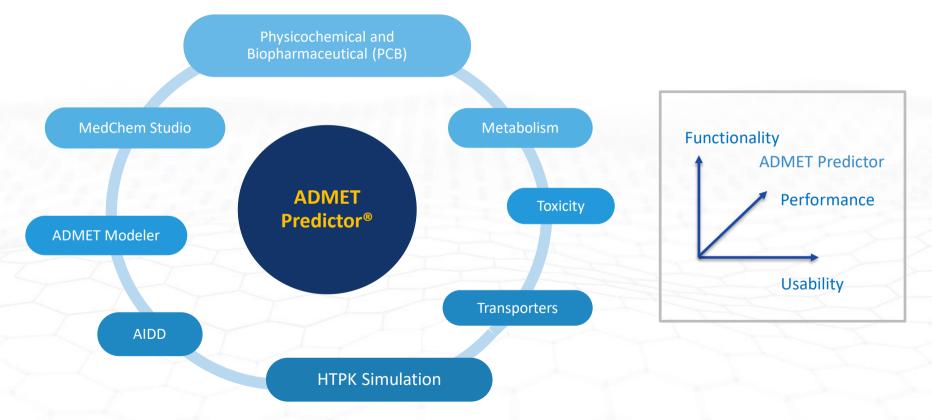


# VIDEO S+ SimulationsPlus

# Cheminformatics & PBPK

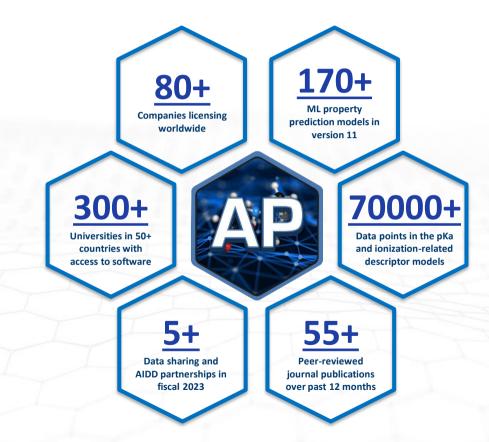
JOHN DIBELLA, M.S.

### Cheminformatics | ADME-Tox Property Predictions and AIDD



#### **ADMET Predictor By the Numbers**





### **Cheminformatics Partnerships in Fiscal 2023**



- pKa models have been rebuilt using proprietary data received from three new industrial partners
  - Partner 1: ~19,000 compounds
  - Partner 2: ~2,400 compounds
  - Partner 3: ~4,100 compounds
- Total number of ionization constants has increased from 33,640 to 70,810
- Continues successful record of industrial partnerships that originated with Bayer's 2011 contribution of 17,000 proprietary compounds

Simulations Plus Enters New Strategic Collaboration to Discover Anticancer Therapies Through Its AI-Driven Drug Design Technology

Drug discovery services partnership with Sino-American Cancer Foundation focuses on the development of actionable hits against the MTHFD2 target

March 28, 2023 08:30 AM Eastern Daylight Time

LANCASTER, Calif.--(<u>BUSINESS WIRE</u>)-<u>Simulations Plus. Inc.</u> (Nasdaq: SLP), a leading provider of modeling and simulation software and services for pharmaceutical safety and efficacy, today announced that it established a strategic research collaboration with the Sino-American Cancer Foundation (SACF). This collaboration will leverage Simulations Plus' staff and <u>Artificial Intelligence-driven Drug Design</u> (AIDD) technology in the <u>ADMET Predictor®</u> software platform to support the discovery and design of novel inhibitors of methylenetetrahydrofolate dehydrogenase 2 (MTHFD2), an emerging cancer target.

#### Simulations Plus Enters Partnership to Apply AI/ML Technologies to Design Novel Compounds

Promising intellectual property resulting from the collaboration with Polish Academy of Sciences will be jointly owned for further development opportunities

March 15, 2023 08:30 AM Eastern Daylight Time

LANCASTER, Calif.—(<u>BUSINESS WIRE</u>)—<u>Simulations Plus, Inc.</u> (Nasdaq: SLP), a leading provider of modeling and simulation software and services for pharmaceutical safety and efficacy, today announced that it entered into a collaborative research agreement with the Institute of Medical Biology of the Polish Academy of Sciences (IMB PAS) to jointly design new compounds for the RORy/RORyT nuclear receptors using its cutting-edge artificial intelligence (AI) / machine learning (ML) technology in the <u>ADMET Predictor®</u> software platform.

### Cheminformatics | The Future

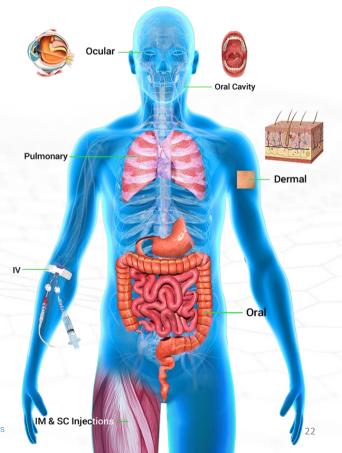
- Expansion of machine learning models to inform inputs into other software offerings at the company
- Explore new AI/ML technologies to improve model performance and assist with data compilation/curation
- Develop additional descriptors (2D and 3D) to extend chemical coverage space into new territories
- Enhance AIDD approaches with new functionalities retrosynthesis predictions, novelty searches
- ...and more

### Cheminformatics | Why We Win

- We're ranked #1 for accuracy in published independent comparisons for different ADME endpoints
- Simulations Plus has the top-rated machine learning + top-rated PBPK models tightly integrated in ways no other company can accomplish
- We have generative AI with embedded GastroPlus PBPK simulations to uniquely design/optimize molecules
- Access to premium, carefully curated data, which others do not have, to feed our machine learning models
- Hundreds of peer-reviewed journal articles published citing ADMET Predictor
- Flexible licensing & deployment models provides options to a wide range of clients across industries
- Expert team of data scientists, developers, and support staff provides the coaching, maintenance, and training companies need to successfully incorporate AI/ML modeling into their discovery programs

## What Do We Mean When Describing PBPK Modeling?

- Physiologically based pharmacokinetic (PBPK) models represent animals and humans virtually as a collection of organs and tissues, each defined by a system of mathematical equations
- PBPK models are developed using quantitative values ("parameters") and equations that describe characteristics (e.g., body weight, blood flow rate, physicochemical properties, formulation) and mechanisms (e.g., dissolution, precipitation, absorption, metabolism)
- PBPK models built for animals can often be extrapolated to humans – and, in a similar vein, models built for healthy adults can often be extrapolated to other populations (e.g., pediatrics, disease states)





Physiologically Based Pharmacokinetic Analyses — Format and Content Guidance for Industry



Provisional Translation (as of February 2021)

PSEHB/PED Notification No. 1221-1 December 21, 2020

To: Director of Prefectural Department of Health

Director of Pharmaceutical Evaluation Division, Pharmaceutical Safety and Environmental Health Bureau, Ministry of Health, Labour and Welfare (Official seal omitted)

Guidelines for Analysis Reports Involving Physiologically based Pharmacokinetic Models

In receit year, much attextion is being given to drug development strategies that use modeling A simulation (MAS) based on understanding models in an strategie ty product intellutioning of plannatolinguida is an analysis using a physiologically hand plannatokinetic (PHFK) model by incoperating information with a simulation of the physiological by an analysis of the drug tasks. A prior for drug attemption the models. A PHFK model is a useful tachingue for investigating drug interactions, probability flammachinguida attemption physiological based plannatokinetic (PHFK) model is a constrained the model. A PHFK model is a useful tachingue for investigating drug interactions, producing attemption characterization and provide softwares and materians. The Use of Physiologically Based Pharmacokinetic Analyses — Biopharmaceutics Applications for Oral Drug Product Development, Manufacturing Changes, and Controls Guidance for Industry

#### DRAFT GUIDANCE

#### This guidance document is being distributed for comment purposes only.

Comments and suggestions regarding this draft document should be submitted within 60 days of bublication in the Federal Registro of the moleci samousing the availability of the draft guidance. Submit electronic comments to <u>https://www.regulations.gov</u>. Submit written comments to the Dockets Management S201 (FIR-305), Food and Dong Administration, 5530 Fishers Lan, Ran. 1061, RocketM, MD 20852, All Comments should be identified with the docket number lateration in the noise or overshability that publicate in the Federal Register.

U.S. Department of Health and Haman Services

Food and Drug Administration

Center for Drug Evaluation and Research (CDER)

October 2020 Pharmaceutical Ouality/CMC

For questions regarding this draft document, contact Paul Seo at 301-796-4874.

Senate Passes Paul, Booker Bipartisan FDA Modernization Act 2.0 to End Animal Testing Mandates

2018

U.S. Department of Health and Human Services Food and Drug Administration

Center for Drug Evaluation and Research (CDER)

August 2018

Clinical Pharmacology

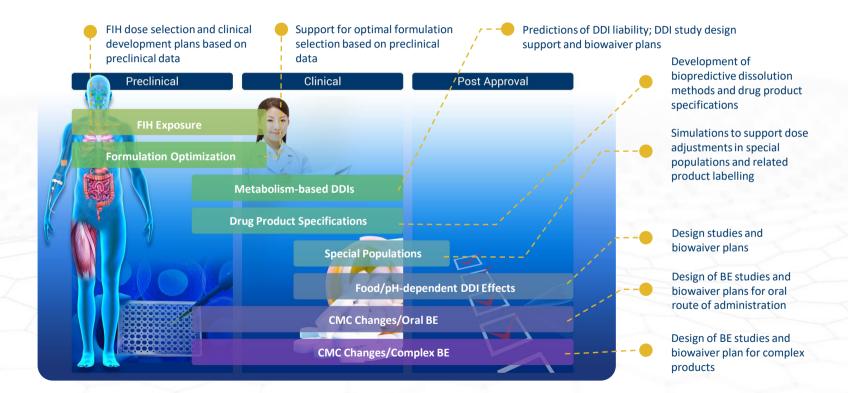
## 2018

2020



### **Common PBPK M&S Industry Applications**





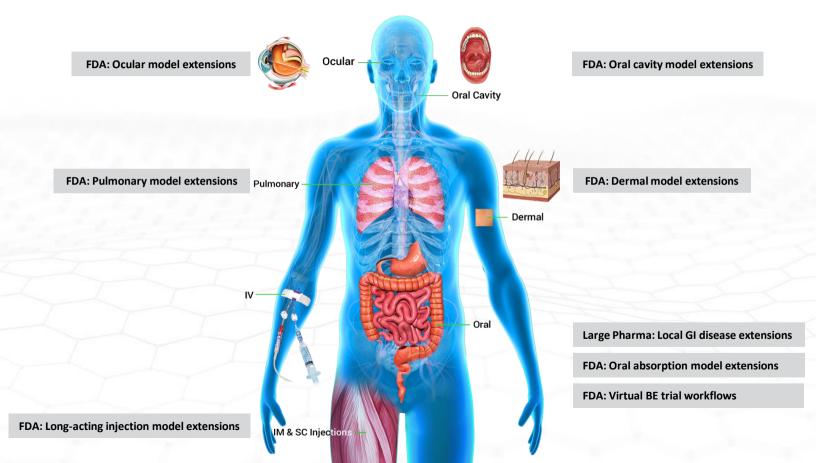
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#### GastroPlus By the Numbers



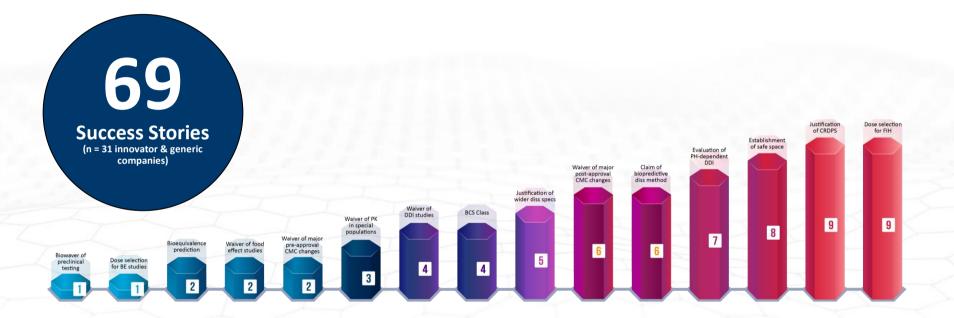


### Partners Driving PBPK | Funded Scientific Collaborations



### Regulatory Applications of GastroPlus (2020-22)

#### **Client Survey Results**



### Examples of Approved Drugs Supported By GastroPlus



- Alecensa<sup>®</sup>, pH-dependent DDI
- Braftovi® & Mektovi®, Metabolic DDI
- Calquence<sup>®</sup>, Drug product specifications / pH-dependent DDIs
- Farydak<sup>®</sup>, pH-dependent DDIs
- Inlyta<sup>®</sup>, Transporter DDI
- Kisqali<sup>®</sup>, pH-dependent DDI

- Opsumit<sup>®</sup>, Drug product specifications
- Mekinist<sup>®</sup>, Transporter DDI
- Tamiflu<sup>®</sup>, Pediatric dose support
- Invokana<sup>®</sup>, Drug product specifications
- Piqray<sup>®</sup>, Food effect
- Zurampic<sup>®</sup>, Drug product specifications

#### A Recent Regulatory Win



#### **Problem Statement:**

- Commercial tablets for 2 dose strengths were being submitted by a mid-size pharma company
- Both FDA and EMA pushed back on the proposed Q80% time point of 45 minutes
- Dissolution testing of production batches showed dissolution rates close or failing proposed agency limits which would have led to OOS batches during routine manufacturing

#### The Solution: GastroPlus<sup>®</sup> PBBM

- Model was validated across clinical datasets and applied to run VBE and justify, together with a risk analysis based on ER data, wider proposed dissolution specifications for both dose strengths
- Cost = \$0.25M USD (one-time charge)
- What Were the Alternatives?
  - 1. Do nothing and accept standard dissolution specs
    - Estimated 5-10% OOS batches = loss of \$1M USD/year
  - 2. OR Run a clinical trial to justify dissolution specifications
    - Manufacture clinical batches across 2 dose strengths at the proposed dissolution specifications
    - Conduct 2 human BE studies on 42 subjects in fed and fasted state for both drug products

#### **Scenario Costs:**

#### Scenario 1. Do Nothing Estimated Cost = 5-10% OOS batches Loss of \$1M USD/Year

#### Scenario 2. Run a Clinical Trial Estimated cost =

\$0.5M USD (manufacturing) + \$7M USD (clinical studies) + 6-12 months to complete study & analysis

## Celebrating the 25<sup>th</sup> Anniversary of GastroPlus

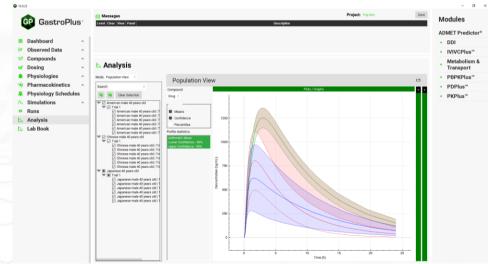


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#### The Future of GastroPlus







The trusted science of GastroPlus is the same – the workflows & logic will be around for years to come!

## PBPK | The Future

- Integration of QSP and CPP technologies within the GastroPlus environment to expand product and service offerings
- Application of AI to provide expert PBPK coaching and support to users on a real-time basis to expand our client base
- Mechanistic delivery models around the body for different molecule types
- True polypharmacy simulation capabilities to mimic a patient's real-world medication schedule and better assess drug-drug interactions, fixed dose combination products, and more

## PBPK | Why We Win

- Ranked #1 for accuracy in all published independent comparisons of PBPK software laser focus on science and innovation for 25+ years
- 1000+ peer-reviewed journal articles published citing GastroPlus
- Over 20 funded grant partnerships with the FDA since 2015 reflects significant trust and confidence from regulators expert team of modelers, developers, and support staff provides the coaching, maintenance, and training companies need to successfully incorporate PBPK modeling into their R&D programs
- Our expert team of modelers, developers, and support staff
- Flexible licensing models provides access to a wide range of clients across industries

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# Clinical Pharmacology & Pharmacometrics (CPP)

JILL FIEDLER-KELLY, M.S., FISOP, JONATHAN CHAUVIN, PH.D.



#### Jill Fiedler-Kelly – CPP Services

- Co-founded Cognigen in 1992
- Joined Simulations Plus when it acquired Cognigen in 2014
- +30 years of modeling and simulation experience
- Co-author of a textbook on population PK/PD modeling
- Adjunct Professor of Pharmaceutical Sciences at the University at Buffalo (SUNY Buffalo)

#### Jonathan Chauvin – CPP Software

- Lixoft in 2015
- Joined Simulations Plus when it acquired Lixoft in 2020
- Filed +30 patents and directed 20 publications in refereed committees, newspaper articles, and 50 conference papers

### Clinical Pharmacology & Pharmacometrics | Introduction

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#### Software and consulting synergy – benefits of MonolixSuite capabilities and efficiencies

- Combining the most user-friendly modeling and simulation software with the extensive experience of the highly respected consulting team offers an unmatched level of support for model-informed drug development programs
- ~\$19M in revenue; 62% services, 38% software in fiscal 2023
- Over 95% client renewal rate based on fees for MonolixSuite
- Growth in fiscal 2023: >100 companies using MonolixSuite, 12 new consulting clients and 5 consultants in fiscal 2023
- Highly experienced leadership team with advanced technical degrees, >30 years experience in consulting and >20 years experience in the pharmaceutical industry



## Clinical Pharmacology & Pharmacometrics | Services

### Pharmacometrics Services...

- Quantitative support of model-informed drug development
  - Pharmacometric modeling to understand and explore variability in PK, PK/PD and exposure-response
  - Support for development and regulatory decision making: providing confidence in the rationale for next phase planning and providing support for regulatory challenges through quantitative analyses, technical reports, written responses, briefing books, and attendance at meetings
  - Embedded clinical pharmacology and pharmacometrics team member support
  - Comprehensive quality management system with validated and secure systems for data handling and analysis
  - Committed and supportive team partnering with our clients and working with integrity to turn clinical data into actionable insights



## Clinical Pharmacology & Pharmacometrics | Software

### Pharmacometrics Software...

- MonolixSuite is the gold standard for user-friendly pharmacometric modeling and simulation software
  - Non-compartmental analysis with PKAnalix
  - Nonlinear mixed effects population PK/PD modeling with Monolix
  - Model-based, high performance clinical trial simulations with Simulx
- Intentional design offers seamless and efficient workflow across analysis steps
- Intuitive graphical user interface, extensive documentation and dedicated support team facilitates a shorter learning curve for modelers and quicker time to gain confidence in capabilities



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## Collaborative team support on many fronts

Our pharmacometric consultants performed PK/PD modeling in support of a highly-anticipated novel therapy being investigated to treat a rare disease affecting children. Our team of experts subsequently assisted the Sponsor with preparation for an Advisory Committee meeting resulting in the successful attainment of accelerated approval granted by FDA.

## Leveraging the strength of the software

A team of modeling experts from the CPP business unit are using Monolix to develop a PK/PD platform model framework that will enable our client to quantitatively support go-no go decision making for oncology compounds based on linking early biomarker data to predict late clinical endpoints.

# Support for decision making across all development stages

Modeling support provided to a client applying AI to precision engineer medicines was used to make critical decisions to enable development-related decision making for pipeline candidates.

The services team provided pharmacokinetic and exposure-response modeling support for a compound offering novel treatment for a rare genetic disease affecting children and adults; following approval by FDA, the modeling work was used to support labelling statements that describe dosing recommendations for the compound.

## Clinical Pharmacology & Pharmacometrics | The Future

- Investing in expanding MonolixSuite functionality with input from in-house consultant users as well as the entire client base to:
  - Support further integration into the global environment and ecosystem of tools supporting model-informed drug development
  - Provide continual improvement of workflow and interoperability across application domains
- Opportunities for collaboration between QSP and CPP scientific areas of focus to support client needs:
  - Leveraging mechanistic QSP models developed to support early decision making to expedite the analysis of clinical data from first-in-human studies
  - Leveraging empirical PK/PD models by adding complexity with the characterization of additional endpoints and pathways
- Incorporation of AI and ML methods in pharmacometric analyses and associated data processing activities may allow for further increases in efficiency and streamlining of workflows to expedite the generation of results



## Clinical Pharmacology & Pharmacometrics | Why We Win





### **Unparalleled Offering**

- Synergistic combination of extensive experience and expertise in providing quantitative support for model-informed drug development programs across therapeutic areas and the best-in-class, most user-friendly software tool for efficient modeling & simulation workflow
- Consulting teams believe that the relationships we build with our clients are essential to our success: communicating with transparency and integrity and commitment to support for confident decision-making supported by high-quality modeling and simulation from beginning to end
- Software and services supported by solid infrastructure and quality management system

## Quantitative Systems Pharmacology Solutions (QSP)

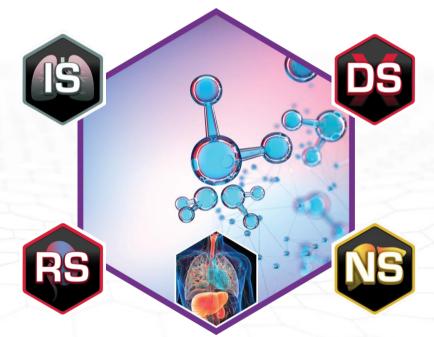
BRETT HOWELL, PH.D.

## QSP | Introduction



### Software and consulting synergy...

- QSP is an exciting and rapidly growing field of biomedical research
- Our QSP team combines a knowledge of mathematics, disease pathophysiology and pharmacology to help our clients make better decisions
- Our QSP team now has the broadest range of therapeutic area coverage of any QSP team in the industry



### **QSP: Inflammatory and Fibrotic Diseases**

- Non-alcoholic fatty liver disease / steatohepatitis (NAFLD/NASH)
- Idiopathic pulmonary fibrosis (IPF)
- Interstitial lung disease (ILD) associated with systemic sclerosis
- Wound healing after myocardial infarction (MI)
- Uric acid disposition in gout
- Dysregulation of alternative and terminal pathways (AP, TP) of complement

### QST: Liver and Kidney Safety

- Drug induced liver injury (DILI)
- Drug induced acute kidney injury

### QSP: Immuno-Oncology

- Acute myeloid leukemia (AML)
- Multiple myeloma (MM)
- Solid tumor (NSCLC, melanoma)
- Diffuse large B-cell lymphoma (DLBCL)

### QSP: Autoimmune Diseases

- Rheumatoid arthritis (RA)
- Psoriatic arthritis (PSA)
- Psoriasis (PSO)
- Atopic dermatitis (AD)
- Systemic lupus erythematosus (SLE)
- Ulcerative colitis (UC)
- Crohn's disease (CD)

## QSP | Services



- Platforms across therapeutic development landscape including diseases
- Our coverage positions us to increase engagements
- Unique combined understanding of:
  - Drug effectiveness at treating disease
  - Safety
  - Negative drug side effects
- Optimize the balance between a therapies positive and negative impacts on the patient
- Offer milestone-based consulting project structures





## QSP | Software

- Includes proprietary infrastructure built within these environments:
  - Thales: drives oncology and autoimmune models
  - MATLAB: drives pharmacology focused models
  - Julia: drives our NASH / NAFLD model
  - C++: drives our liver and kidney safety platforms
- All of our platforms are available for licensing by our clients, enabling our clients with QSP teams inhouse to partner with us in a collaborative way

### QSP | Success Stories





### Quantitative Systems Pharmacology (QSP) Model Predicts Lack of Efficacy for Cenicriviroc, a CCR2/5 Antagonist, in NAFLD/NASH Patients

AASLD Nov. 12-15, 2021
The Liver
Meeting
DIGITAL EXPERIENCE

#### Christina Battista, Lisl KM Shoda, Grant T Generaux, Scott Q Siler DILlsym Services Division, Simulations Plus Inc., Research Triangle Park, NC

#### INTRODUCTION

A phase 3 clinical that (AURORA) for centor/troc (CVC), a CC chemokine receptor 2 and 5 (CCR2/5) antagonist, was recently terminated due to lack of efficacy/ CVC was thought to suppress the inflammatory response and decrease collagen deposition by reducing recountment of macrophages and adviation of hepatic stellate cells,respective);<sup>3,2</sup> CVC exposure and its effects were implemented within a quantitative systems pharmacology (GSP) model, NAFLDsym (Figure 1), to see if simulations captured the lack of efficacy observed in the AURORA study and to explore if



#### RESULTS

imulation results using in vitro estimates for CVC potency			
ed CVC QD for 2-years	Mean Percent Change from Pre-treatment		
1(%)	0±0		
ALT (U/L)	0±0		
(1993)	0±0		
Score (stage)	-1 # 8		

Simulations with increased CVC potency							
adated CVC mg QD for 2-years	Near	Nean Percent Charge from Pre-invatment					
	1x potency	2x potency	18s potency	100x potency			
r fat (%)	0±0	0±0	0±0	0±0			
meALT (UIL)	0±0	0±0	1±0	1±1			
(seane)	0±0	0±0	0±0	D±0			
and a Warmer de Larres de		140	0 - 17	10 4 17			

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## QSP | The Future

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### Several Exciting QSP Initiatives

- Big emphasis on expansion into more indications within oncology
- Therapeutic area expansion in other arenas
- New client sponsored development is ongoing in neurology
- Combination of AI with QSP modeling



## QSP | Why We Win



Four key reasons why our clients choose to work with our QSP team:

- 1. Focused on diseases of relevance to our clients and the flow of capital
- 2. The QSP group is composed of a large team of knowledgeable experts, making the offering scalable and adaptable
- 3. Software + services: these two offerings allow us to tailor our solutions for large, medium, and small companies within Pharma and biotech
  - Ecosystem: the exposure modeling tools (e.g., PBPK and PMx) to feed drug concentrations into them is unparalleled in the industry

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Regulatory Strategies

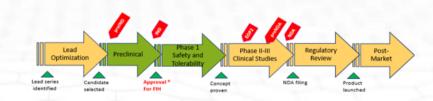
JOHN DIBELLA, M.S.

## Regulatory Strategies | What We Offer

Comprehensive knowledge of drug product development



Expertise in regulatory milestones and requirements



Holistic understanding of M&S regulatory requirements and applications

The Use of Physiologically Based Pharmacokinetic Analyses — Biopharmaceutics Applications for Oral Drug Product Development, Manufacturing Changes, and Controls Guidance for Industry

#### DRAFT GUIDANCE

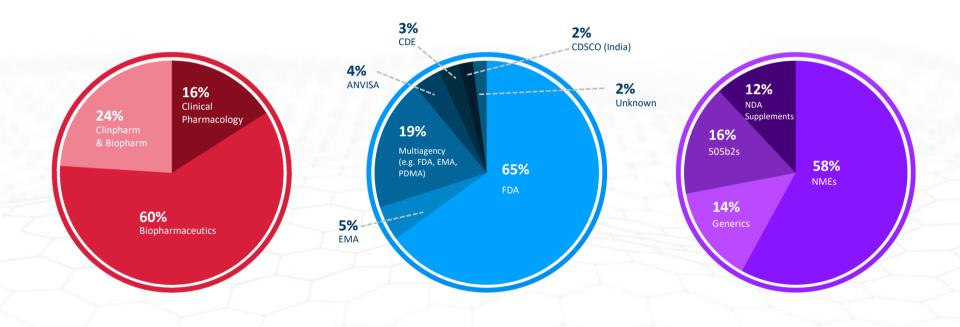
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## Regulatory Strategies | How We Help

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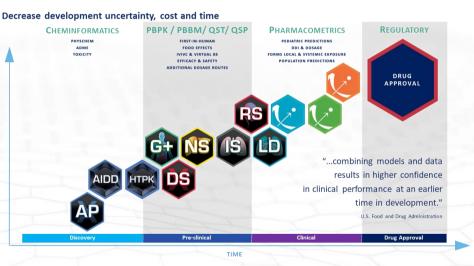
### A proven partner for regulatory strategies and M&S consulting support



# Sales Strategy and Client Approach

JOSH FOHEY VICE PRESIDENT, BUSINESS DEVELOPMENT

**Simulations Plus is a** cutting-edge modeling and simulation company specializing in serving pharmaceutical companies at every stage, from early discovery to post-approval.



## Sales Strategy and Client Approach | Expertise



- Our expertise lies in harnessing the power of machine learning in chemistry, as well as employing advanced methodologies such as PBPK, QSP, QST, pharmacometrics, and regulatory support.
- Our mission is to accelerate the delivery of safe and efficacious medicines to patients worldwide, revolutionizing the pharmaceutical landscape through the integration of industry leading technologies and scientific expertise.

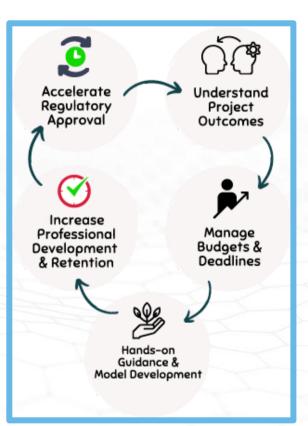


## Sales Strategy and Client Approach | Growth

S+

- Bringing together strategic partnerships
- Bundling our solutions to maximize the value proposition of our partnership
- More therapeutic alignment with our partners to cater offerings

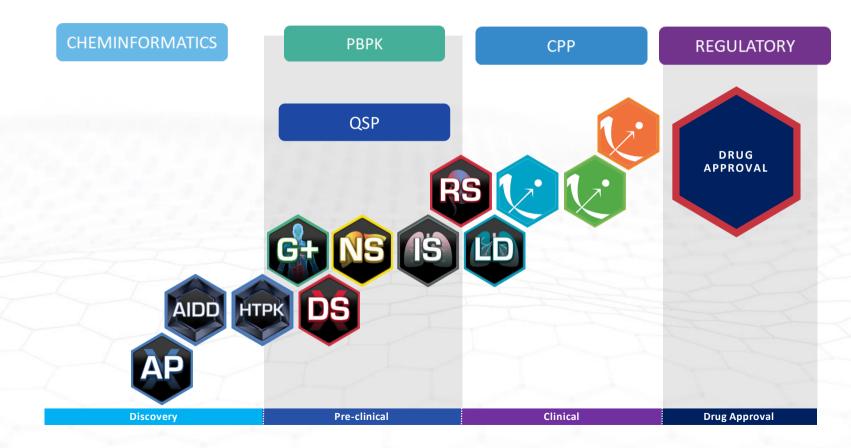






CHEMINFORMATICS	РВРК	СРР	QSP	REGULATORY
Accuracy of property predictions Lead candidate selection and redesign with HTPK/AIDD Discovery services to accelerate development	More versatility and enhanced functionality vs competitors Machine learning inputs Regulatory standard	Consult and Coach Monolix Differential Experts to guide your program and learning	Maximize therapeutic and disease understanding Optimize dose selection and clinical execution Prioritize your investments and mitigate program risk	Save experimental work when coupled with modeling Better design and optimize clinical trials Expertise to hold your hand through
and scale ecosystem				regulatory scrutiny

## New Structure Aligns with Client Needs



## Sales Strategy and Client Approach | Fiscal 2023

- Increased bookings for large pharma partners
- Sold to over 400 accounts
- Increased client engagement in Alliance Management (Concierge Program)
- Over 90% of the bookings from Pharmaceutical companies
- Over 80% of software bookings were renewals with upsells or price increases
- Increased number of optional tasks on services projects

**S**+

# M&A and Integration

SHAWN O'CONNOR, CEO STEVE CHANG, M.S.

## M&A Strategy Supplements Organic Growth



- Target business expands our TAM or accelerates capture of market share in existing TAM
- Target technology/services are compatible with our existing capabilities
- Target culture is compatible with our culture
- Target valuation is reasonable
- Target is accretive



## M&A | Integration & Immunetrics Case Study





### Integration and consolidation efficiencies

- QSP is a critical and growing field
- Immunetrics has increased the range of therapeutic areas addressed by our QSP software and services offerings by more than 50%
- Ideal fit as the business leverages our existing infrastructure by expanding its therapeutic resources into largely underserved areas, including immunology and oncology
- Immunetrics chose Simulations Plus for its well-respected reputation
- Integration is going very well

# FINANCIAL OVERVIEW & GUIDANCE

WILL FREDERICK, CFO

## Fiscal 2023 Highlights



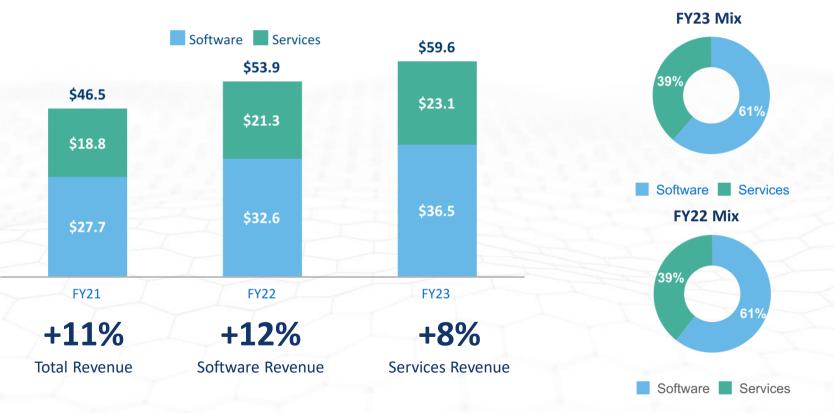


- Strong revenue and earnings results for fiscal 2023
- Conditions in our market remain similar to what we have seen past several quarters
  - Small biotech slowdown
  - Large Pharma spending cautiousness
- Integration of Immunetrics going well
- Achieved revenue and adjusted diluted earnings per share guidance

## **Revenue Trends**

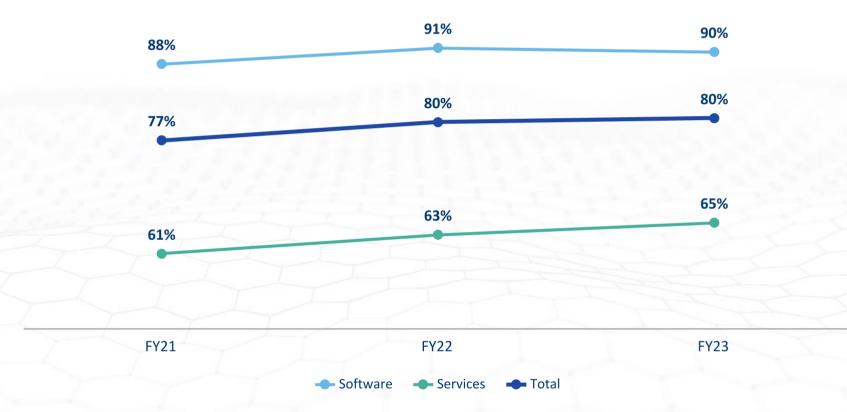


### (in millions)



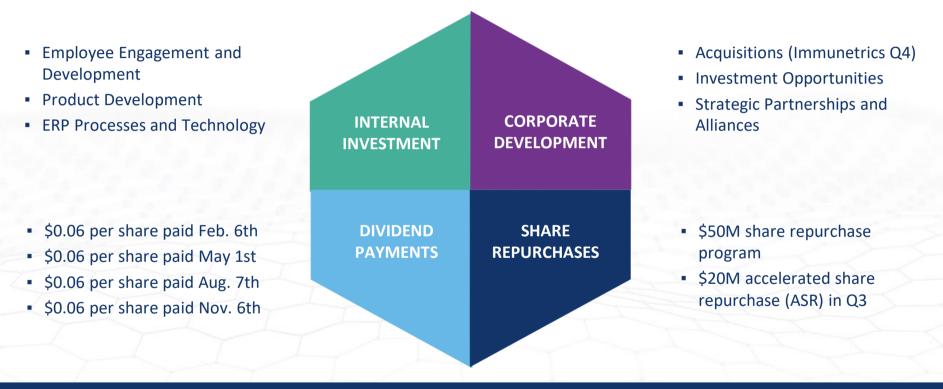
## Gross Margin Trends





## **Capital Allocation Strategy**





We are committed to investing in our employees, products, and providing value to our shareholders



### Guidance

Total Revenue\$66M to \$69MTotal Revenue Growth10% to 15%Software Revenue Mix55% to 60%Services Revenue Mix40% to 45%Diluted EPS\$0.66 to \$0.68

## **Financial Profile**

### **Delivering Double-Digit Revenue Growth / Industry Leading Margins**

	FY18	FY19	FY20	FY21	FY22	FY23	5 Yr CAGR
<b>REVENUE</b> \$ in millions	\$29.7	\$34.0	\$41.6	\$46.4	\$53.9	\$59.6	12.3%
19.10	FY18	FY19	FY20	FY21	FY22	FY23	6 Yr Avg
gross margin %	73.1%	73.4%	74.4%	77.2%	79.9%	80.0%	76.4%
EBITDA MARGIN %	43.3%	39.1%	34.4%	31.2%	33.3%	19.2%	33.4%

- + Double digit revenue growth
- Strong recurring revenue
   supported by a 90%+ Software
   Fee Renewal Rate
- High gross/EBITDA margins to drive strong operating leverage
- High-margin, recurring revenue
   over the life of the client relationship
- Product mix skews toward higher margin software sales

\$115.5 million in cash and shortterm investments to fund growth

# ESG

WILL FREDERICK, CFO

### Sustainability Framework



#### Advance science and innovation through partnerships and collaboration to benefit global health, while minimizing the negative social impacts of traditional Environment research. Minimize the environmental impacts of our operations, directly and indirectly, by waste reduction, recycling practices, and by using renewable energy providers where possible **Business Governance**

Social

#### **Human Capital**

We embrace a culture of engagement, empowerment, and equity to attract, support, and retain a talented and diverse workforce dedicated to promoting scientific innovations.

Ensure thorough oversight of enterprise and ESG risks associated with our business, leveraging policies and procedures, training and awareness, and controls.

### STRATEGIC PRIORITIES FORM THE FOUNDATION OF OUR SUSTAINABILITY FRAMEWORK

### Fiscal 2023 ESG Achievements

#### **ENVIRONMENT** SOCIAL **HUMAN CAPITAL** GOVERNANCE Reduced footprint of US-based Established a paid parental leave Engaged a third-party consulting Updated company privacy policy and facilities by 35% from 19.300 sf to processes in the PDP Program to program to support working firm to carry out a board evaluation 12.400 sf. reflect changes to global personal process and joined NACD to support parents. data protection laws. ongoing director education. Established a process to gather GHG Developed and published Human Implemented employee Implemented pay vs. performance engagement & recognition software analysis for SEC disclosure of emissions data points and set **Rights Policy to support our** targets for expected SEC disclosure commitment to human rights. to further promote and foster a company financial performance culture of appreciation and measure used to determine requirements. inclusion. executive compensation. Expanded University+ program to Conducted employee engagement Updated Code of Conduct policy to Implemented LearnUpon LMS and 307 free software licenses across 51 survey to ensure culture alignment reflect that we and our Adobe e-signature to reduce incountries to further education in our and success of internal person training travel and printed business partners meet the industry and support the next programs and benefits. materials with virtual on-demand standards of business governance, generation of scientists. programs using digital materials. environmental sustainability, and human rights.

# Questions

# CLOSING REMARKS

SHAWN O'CONNOR, CEO

## Our Path to Win





- Unparalleled offerings and client-centric business model
- Leaders in model informed drug development because we are focused on areas that our clients find most important
- Continue to lead the industry in ease of use for our software offerings
- Continue to build upon our strong relationshipbased model to expand existing clients and win new clients





# S+ SimulationsPlus

## Putting Clients First Drives Growth And Fuels Innovation

# **S+** *SimulationsPlus*

NASDAQ: SLP https://www.simulations-plus.com/

# Appendix

### Workplace Recognition Awards





#### **Diversity at Simulations Plus**



Diverse employees at Simulations Plus have rated Perks And Benefits, Meetings, and Team as the highest categories they have scored

#### **CEO Rating at Simulations Plus**



Top 5%

CEO Rating at Simulations Plus is rated A+ Last updated months ago



Simulations Plus ranks in the Top 5% of other companies on Comparably with 51-200 Employees for CEO Rating Score

Simulations Plus' CEO, Shawn O'Connor, has 60 employee ratings and a score of 89/100, placing them in the Top 5% of similar size companies on Comparably with 51-200 Employees and Top 5% of other companies in Los Angeles. When breaking the CEO score down by factors such as department, gender, and ethnicity, we see that females at Simulations Plus rate Shawn O'Connor higher than males, giving the CEO a score of 94/100.

#### **Adjusted EBITDA**

Adjusted EBITDA is defined as earnings (loss) before interest, taxes, depreciation and amortization, stock-based compensation, (gain) loss on currency exchange, any acquisition- or financial-transaction-related expenses, and any asset impairment charges. Currency exchange excluded represents the exchange rate fluctuations on the foreign currency denominated transactions. The impact of transactions in foreign currency represents the effect of converting revenue and expenses occurring in a currency other than the functional currency. The Company believes that the non-GAAP financial measures presented facilitate an understanding of operating performance and provide a meaningful comparison of its results between periods. The Company's management uses non-GAAP financial measures to, among other things, evaluate its ongoing operations in relation to historical results, for internal planning and forecasting purposes and in the calculation of performance-based compensation. Adjusted EBITDA represents a measure that we believe is customarily used by investors and analysts to evaluate the financial performance of companies in addition to the GAAP measures that we present. Our management also believes that Adjusted EBITDA is useful in evaluating our core operating results. However, Adjusted EBITDA is not a measure of financial performance under accounting principles generally accepted in the United States of America and should not be considered an alternative to net income or operating indicator of our operating performance of our operating activities as a measure of our liquidity. The Company's Adjusted EBITDA measure may not provide information that is directly comparable to that provided by other companies in its industry, as other companies in its industry may calculate non-GAAP financial results differently, particularly related to nonrecurring, unusual items.

#### **Adjusted Diluted EPS**

Adjusted diluted EPS is calculated based on net income excluding the impact of any acquisition- or financial-transaction-related expenses, any asset impairment charges, and tax provisions / benefits related to the previous items. The Company excludes the above items because they are outside of the Company's normal operations and/or, in certain cases, are difficult to forecast accurately for future periods.

The Company believes that the use of non-GAAP measures helps investors to gain a better understanding of the Company's core operating results and future prospects, consistent with how management measures and forecasts the Company's performance, especially when comparing such results to previous periods or forecasts.