

iNVESTORDAY

∴ SOPHIA GENETICS™



Welcome

Welcome Jennifer Pottage, Head of Investor Relations **Opening remarks** Troy Cox, Chairman of the Board **Building a data-driven world** 1:30pm - 2:40pm Dr. Jurgi Camblong, Chief Executive Officer **Growing the SOPHiA network** Ken Freedman, Chief Revenue Officer Capitalizing on our expanding biopharma opportunity Peter Casasanto, Chief BioPharma Officer 2:40pm - 2:55pm -15-Minute Break The importance of global collective intelligence Dr. Philippe Menu, Chief Medical Officer **Building the platform of the future** Abhi Verma, Chief Technology Officer & 2:55pm - 4:30pm Dr. Zhenyu Xu, Chief Scientific Officer Delivering value creation via sustainable growth Ross Muken, Chief Financial Officer **Executive Q&A**

4:30pm - 5:30pm - **Reception**

Cautionary Notices



This presentation contains statements that constitute forward-looking statements. All statements other than statements of historical facts contained in this presentation, including statements regarding our future results of operations and financial position, business strategy, products and technology, partnerships and collaborations, including our ability to enter into definitive agreements for any partnerships and collaborations for which we have memorandums of understanding ("MOUs"), as well as plans and objectives of management for future operations, are forward-looking statements. Forward-looking statements are based on our management's beliefs and assumptions and on information currently available to our management. Such statements are subject to risks and uncertainties, and actual results may differ materially from those expressed or implied in the forward-looking statements due to various factors, including those described in our filings with the U.S. Securities and Exchange Commission. No assurance can be given that such future results will be achieved. Such forward-looking statements contained in this document speak only as of the date of this presentation. We expressly disclaim any obligation or undertaking to update these forward-looking statements contained in this presentation to reflect any change in our expectations or any change in events, conditions, or circumstances on which such statements are based, unless required to do so by applicable law. No representations or warranties (expressed or implied) are made about the accuracy of any such forward-looking statements.

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Opening remarks

Troy Cox

Chairman of the Board

A perspective shaped

investor**day**

from 30+ years in the industry





Inspired by patients.
Driven by science.

President

2006-2010

Genentech

A Member of the Roche Group

Sr. Vice President 2010-2017



Chief Executive Officer 2017-2019



Chairman of the Board 2019+



Things you will hear frequently today





Better informed decisions



Global network connectivity



Decentralized platform



Uniquely qualified as an enabler



VIDEO

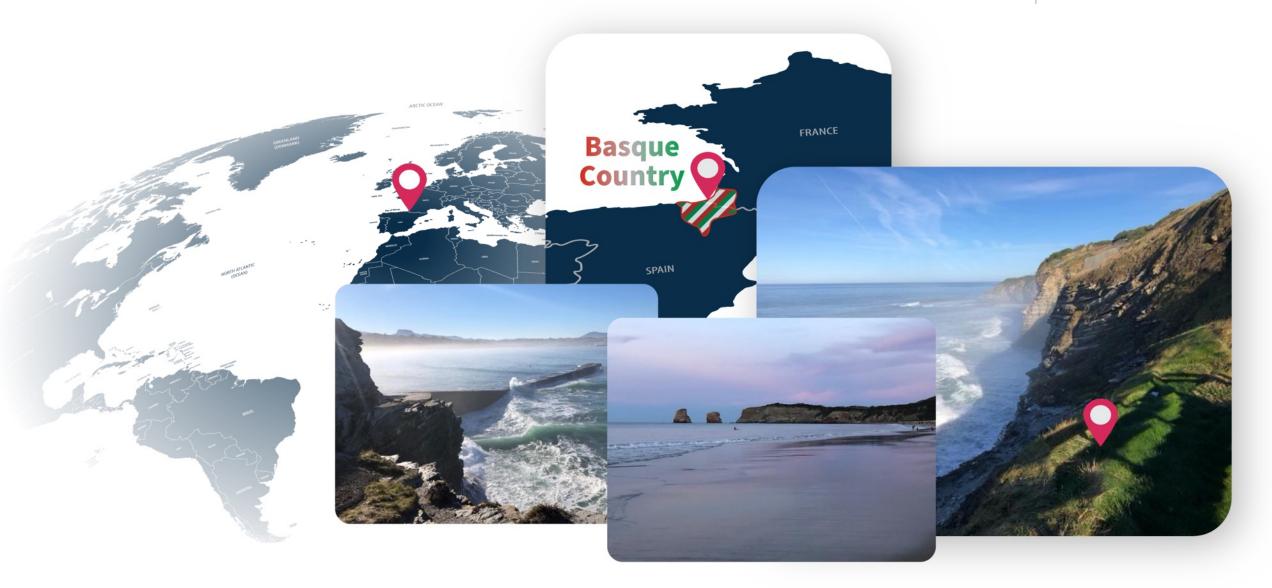


Building a data-driven world

Dr. Jurgi Camblong

Chief Executive Officer & co-founder



















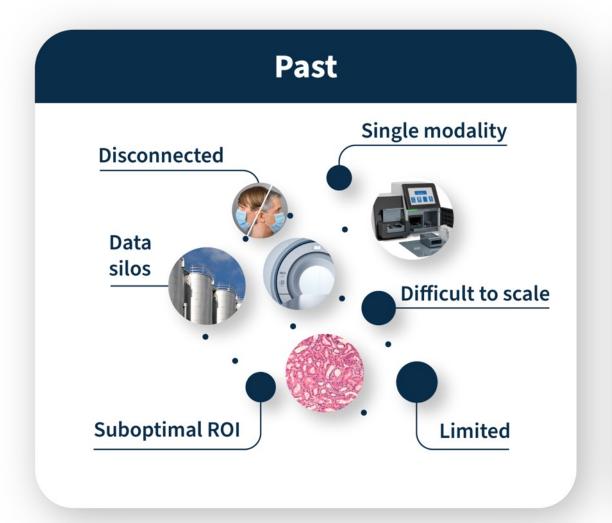
Meet SOPHIA GENETICS™

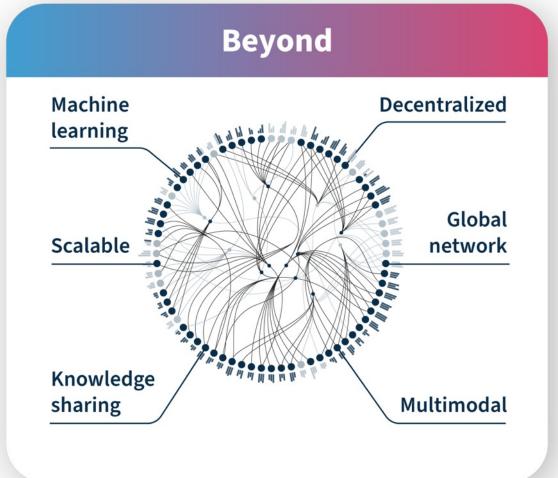
We are a category defining software company on a mission to **Democratize Data-Driven Medicine**

Precision medicine opportunities

investor**day**

Building the future with machine learning and knowledge sharing





Our ambitious mission started in genomics



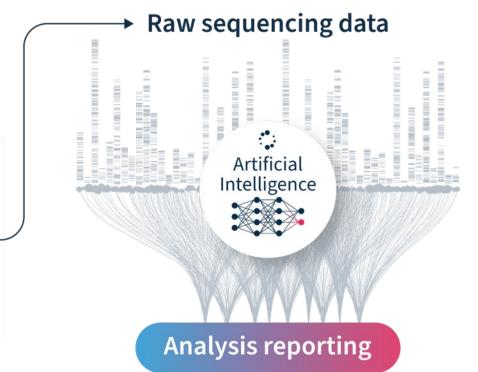
2011

Next Generation Sequencing (NGS)

Revolutionary DNA-sequencing technology, but creates large, complex, and noisy datasets for analysis







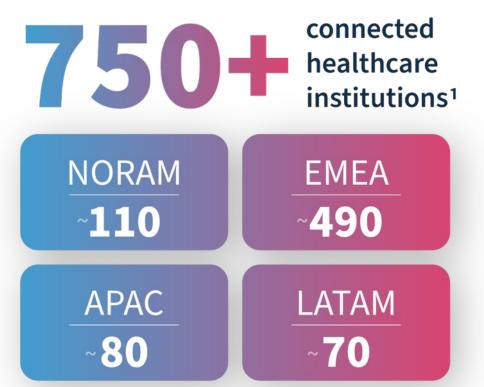
SOPHIA DDM Platform



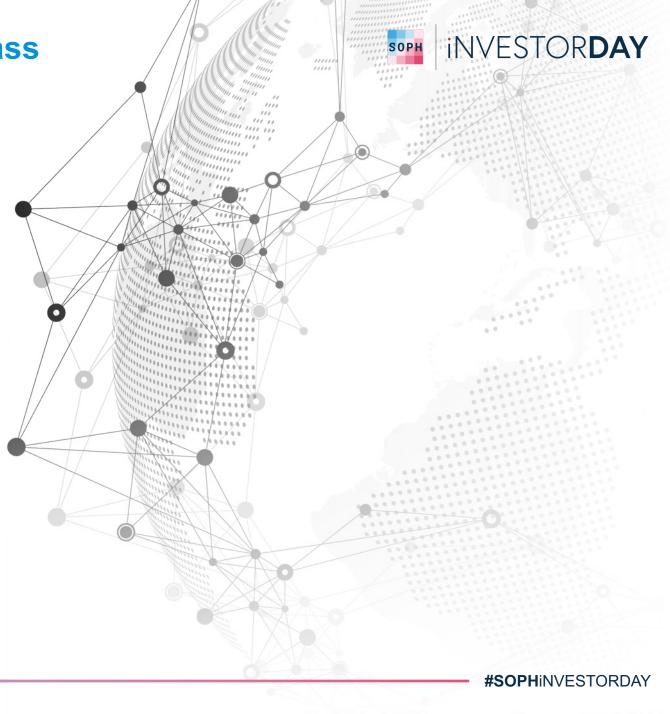
our cloud-native software leverages the power of data analytics and predictive AI to transform the practice of healthcare



We are a first mover with critical mass

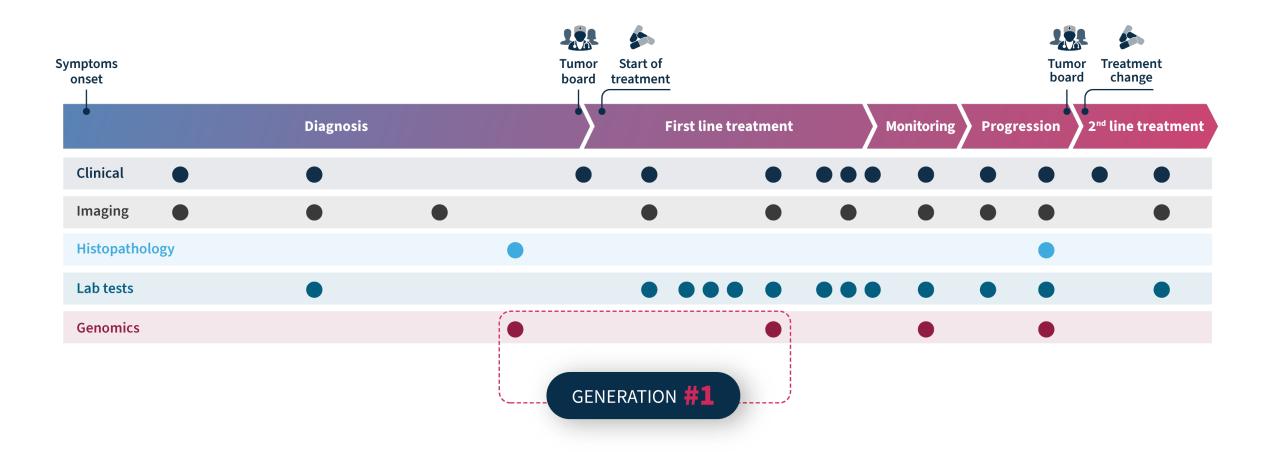


Represents active customers who have generated revenue through DDM platform usage or Alamut licenses



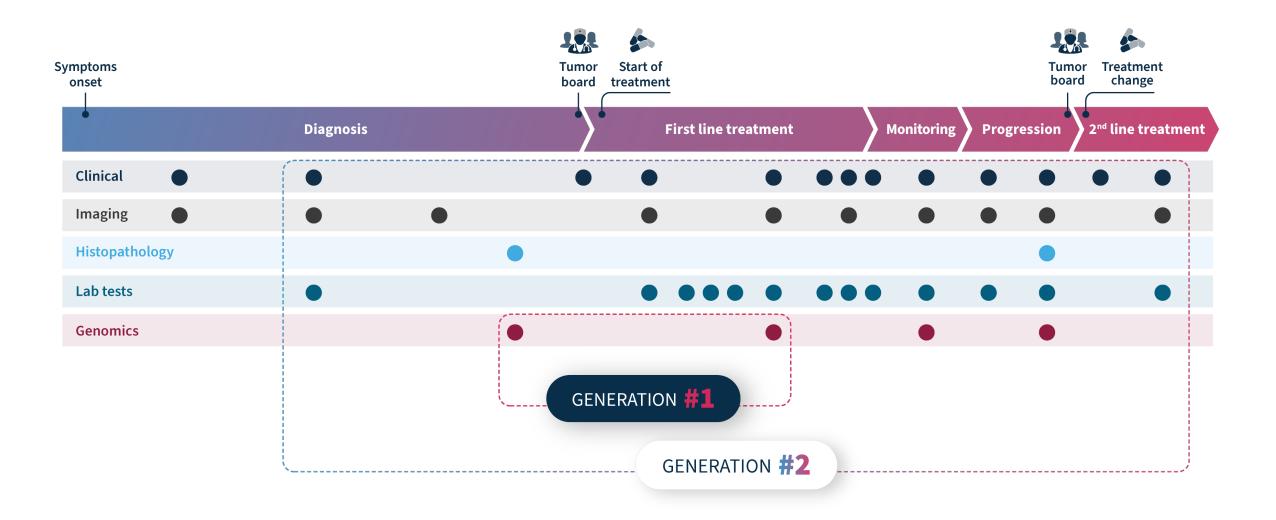
Patient journey of the future





Patient journey of the future

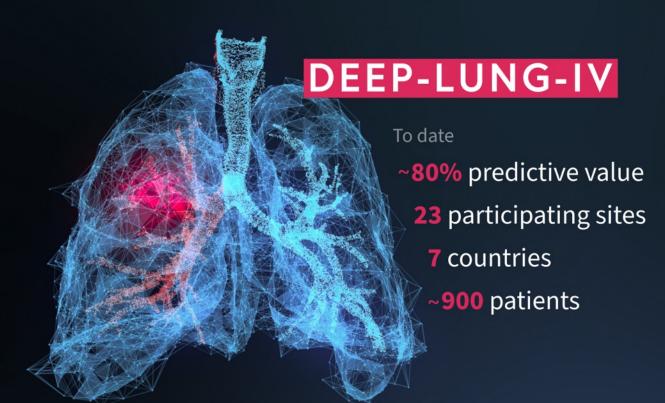


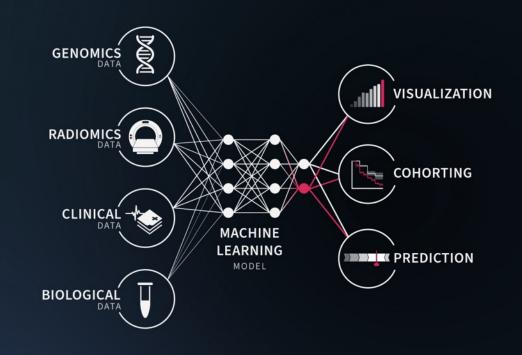




Predictive models will support data-driven medicine vs. hypothesis-driven medicine











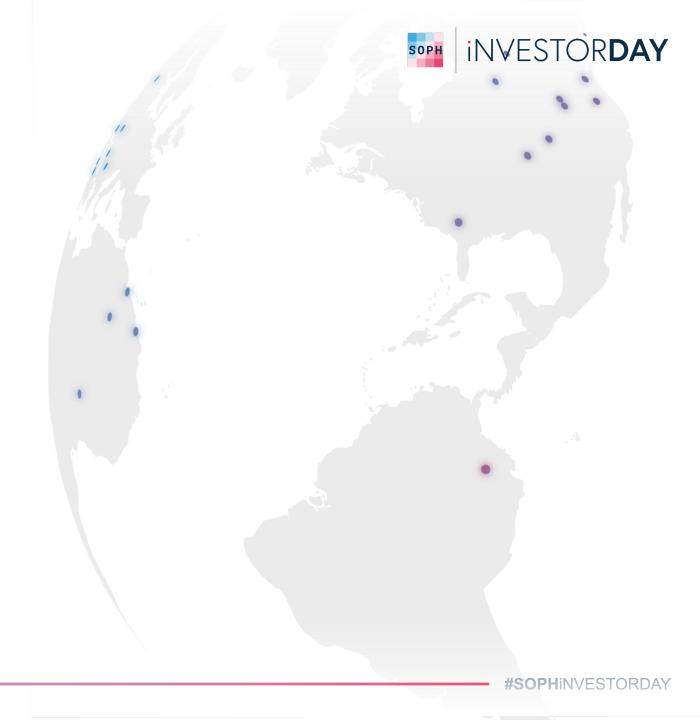








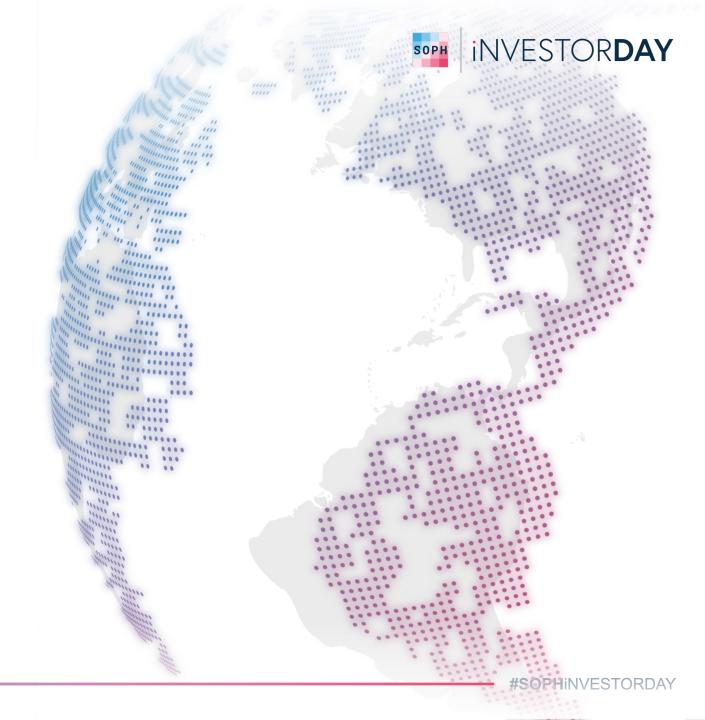
GENERATION #2



750+ sites

for Lung cancer
Expanding

GENERATION #2



Beyond lung



Sites



Lung cancer



Breast cancer



Brain cancer

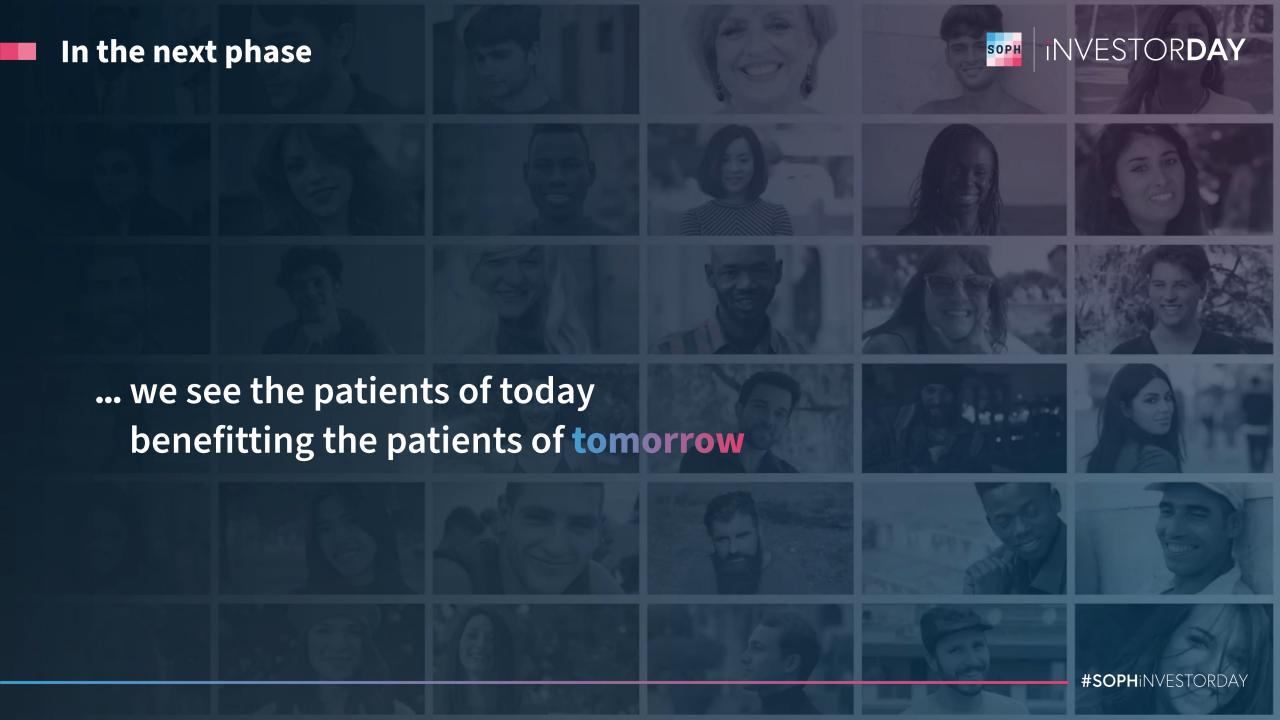




Kidney cancer Colorectal cancer

GENERATION #2

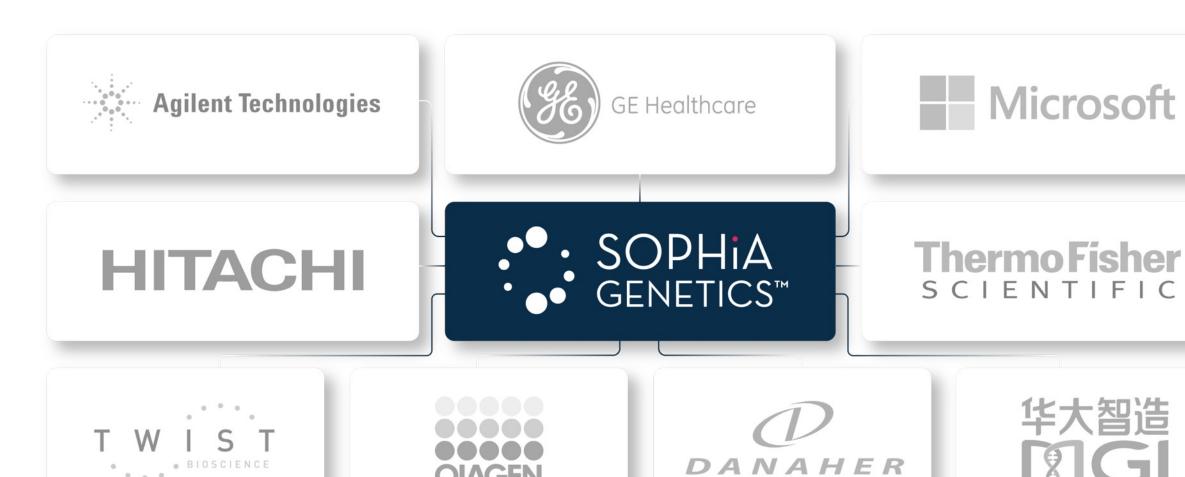




Extensive partner ecosystem

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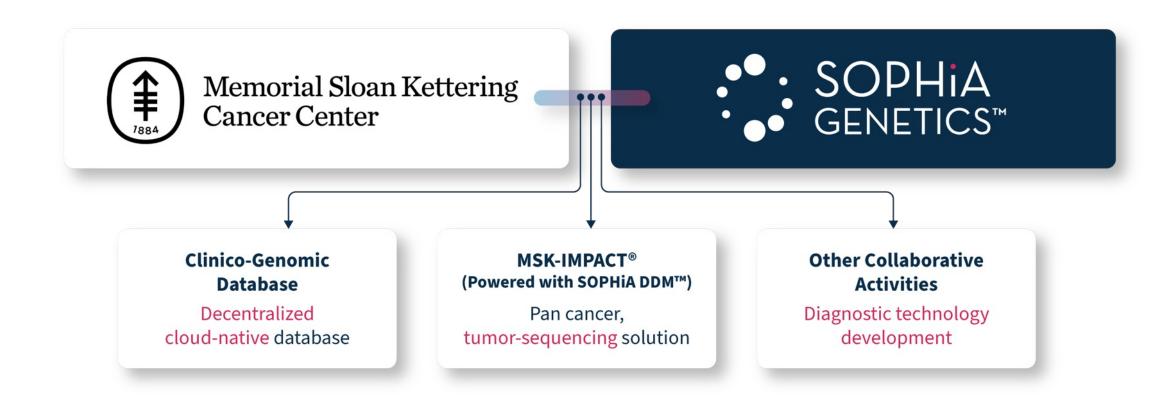
joining forces to shape healthcare's data-driven future



Raising the bar for collective intelligence

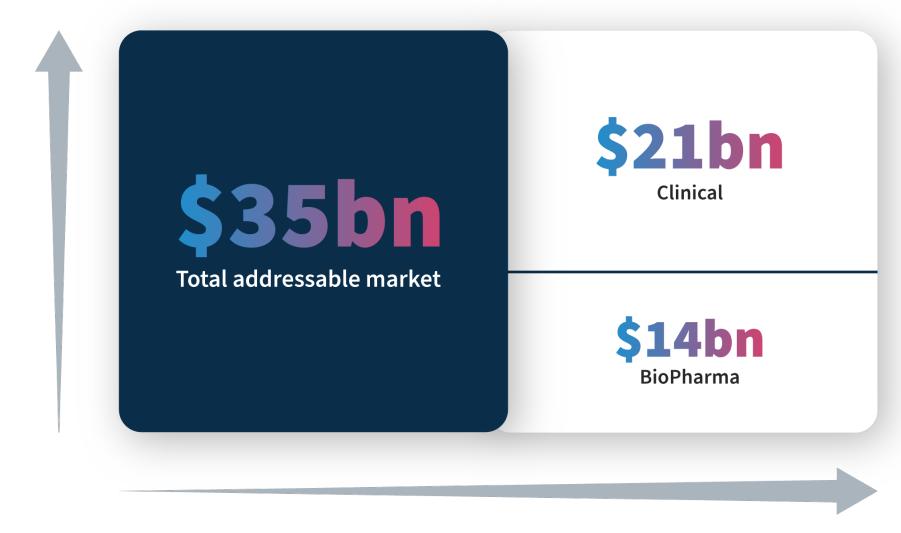
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A unified vision to create a new gold standard for cancer care



Massive market opportunity with room to grow

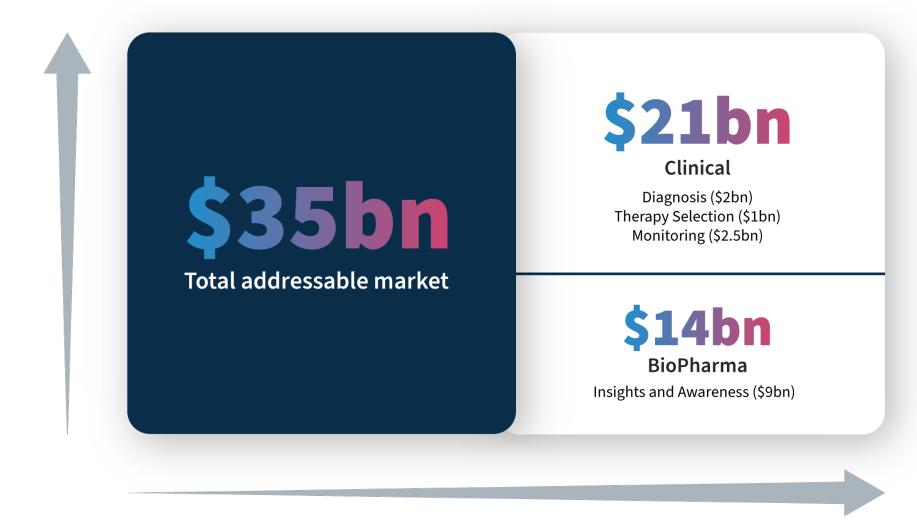




Note: This slide presents our estimated addressable market for 2021. These estimates are primarily based on epidemiological data, including incidence and prevalence estimates of addressable populations for each application, as well as a range of price assumptions for our products taking into account differences in panel sizes.

Massive market opportunity with room to grow





Note: This slide presents our estimated addressable market for 2021. These estimates are primarily based on epidemiological data, including incidence and prevalence estimates of addressable populations for each application, as well as a range of price assumptions for our products taking into account differences in panel sizes.

A biopharma partnership united in purpose



Optimize, validate, and deploy ecDNA algorithms across technologies to improve patient selection and access



Cloud-native software company developing and deploying innovative solutions through SOPHiA DDM™





Next generation precision oncology company advancing the first ecDNA-directed therapies (ecDTx) for patients with oncogene amplified cancers

All SOPHIANS are KEY for our success

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our people and teams are agile, collaborative, and mission-driven



Fearlessly Adventurous

There isn't a peak we are not prepared to climb together to achieve our mission



Resilient and Nimble

We don't back down



Relentlessly Curious

We answer questions that have never been asked, let alone answered

Today, we will answer THREE important questions



- 1 How we sell
- 2 How we innovate
- 3 How we grow sustainably



Growing the SOPHiA network

Ken Freedman

Chief Revenue Officer













Ken Freedman

Chief Revenue Officer



Uniquely positioned to deliver customer value





Deliver top analytical performance



Expedite turnaround time



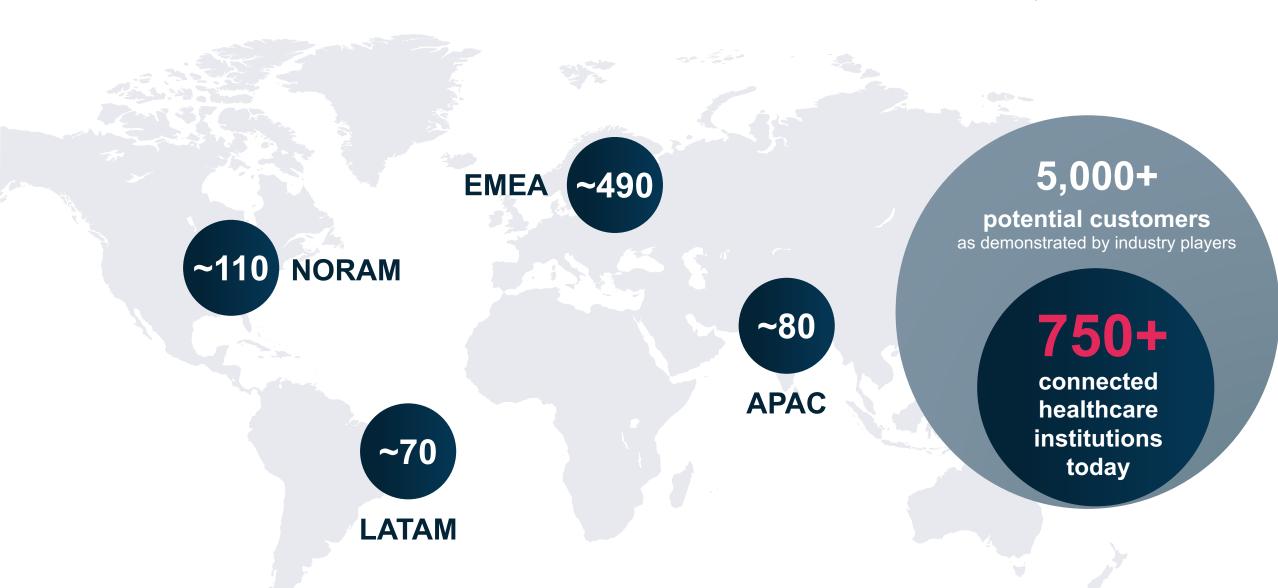
Accelerate **adoption** of precision applications



Control costs

Expansive global footprint





Wide range of SOPHiA DDM applications





Whole RNA Solid HRD **BRCA** Exome Solutions **Tumors** Sequencing Comprehensive Clinical Somatic Hereditary **HRS** Genomic Exome Oncology Cancer Profiling Sequencing Trusight Inherited Liquid Onco-Oncology & Rare Cardiology **Biopsy** Hematology 500 Diseases and Myeloid Lymphoma Neurology Metabolism more...

Exciting opportunity exists to further expand within our existing customer portfolio



750+ connected healthcare institutions

50%
of customers currently use
one SOPHiA DDM
application

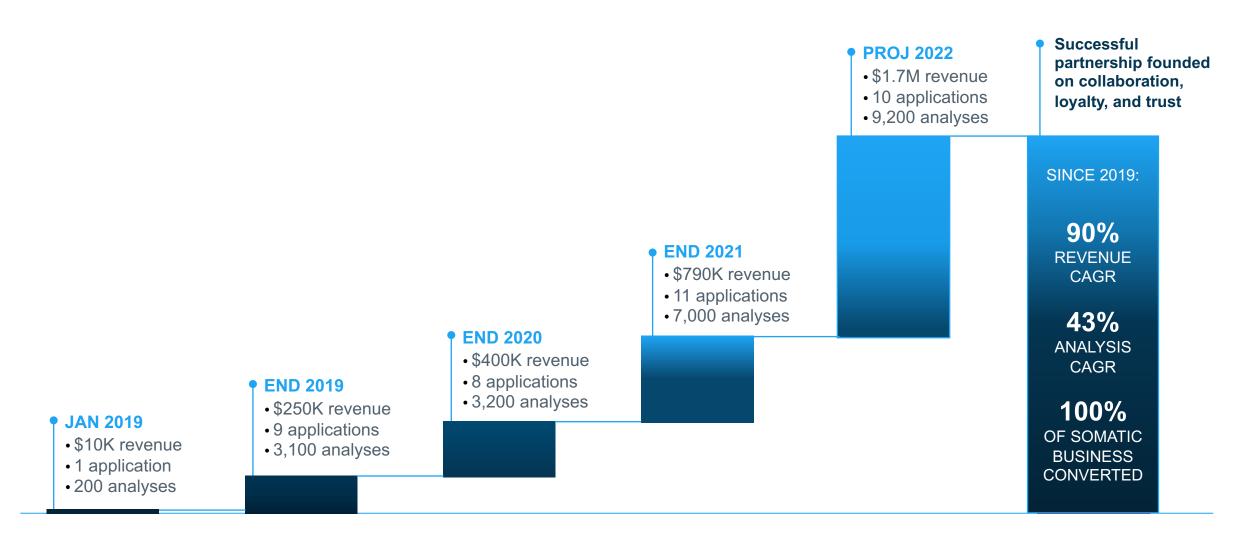
37%
use two to three applications

13%
use four or more applications

A look into a customer's expansion journey



Applying our customer success methodology with a large central lab (1)



Highly effective land and expand engine



~100

Commercial team

20

customer success executives

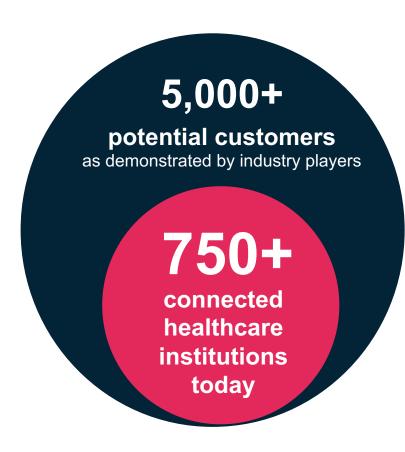
Expand strategy

- White space
- Retention
- Customer satisfaction

Opportunity to land new customers



While we have landed 750+ customers...

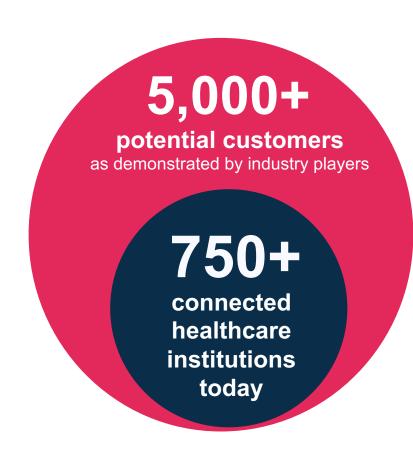


Opportunity to land new customers



While we have landed 750+ customers...

We have a massive opportunity to grow our reach



Highly effective land and expand engine



~100

Commercial team

20

Global sales executives

Land strategy

- Targeting 5,000+ potential customers
- Customers include hospitals, research institutions, and central labs
- Focused on US, UK, Germany, Asia

How we sell











Our customers' sales journey



We are laser-focused on optimizing the KPIs throughout the journey

Awareness

KPIs:

• # opportunities created

Sales Process

KPIs:

- time in funnel
- close rate

Implementation

KPIs:

time to revenue

Loyalty

KPIs:

- net promoter score
- · customer health score



VIDEO

Key takeaways



1

Large and growing market

2

Proven land and expand strategy

3

Global team and structure in place



Capitalizing on our expanding biopharma opportunity

Peter Casasanto

Chief BioPharma Officer













"I'EMPUS

Peter Casasanto

Chief BioPharma Officer



BioPharma can leverage the power of data and analytics to more effectively deliver targeted therapies to the market

BioPharma is a well-established global industry



But not without its challenges

10+ years

Average length from IND to approval

~80%

Clinical trials fail to meet enrollment timelines

~10%

Drugs make it from PI to approval

~\$2B

Average cost of drug development

These challenges require more than just data...



Our value proposition to BioPharma is driven by SOPHIA GENETICS' core competencies

Clinical **Platform BioPharma** Global clinical network Improved decision making Real-time computing Enhanced comparative analysis Advanced patient finding Multimodal data

Decentralized Scalable

3 pillars for growth: the three d's





Data

Providing insights from multimodal datasets across decentralized network



Development

Leveraging AI and ML for the development of new solutions & predictive analytics



Deployment

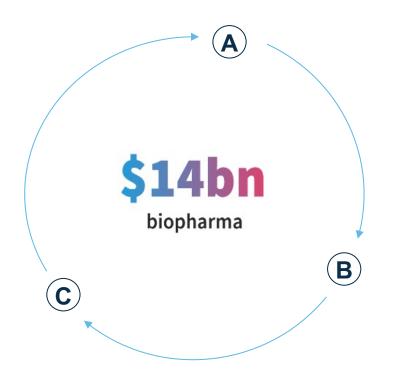
Deploying proprietary and commercial solutions

Our ability to deliver innovative biopharma solutions



A catalyst for SOPHiA GENETICS' growth strategy...

Total addressable market in 2021



Catalysts for growth



Data

Aggregating a growing number of **data modalities** with partnerships





Development

Powering predictive multimodal algorithms through **CarePath**





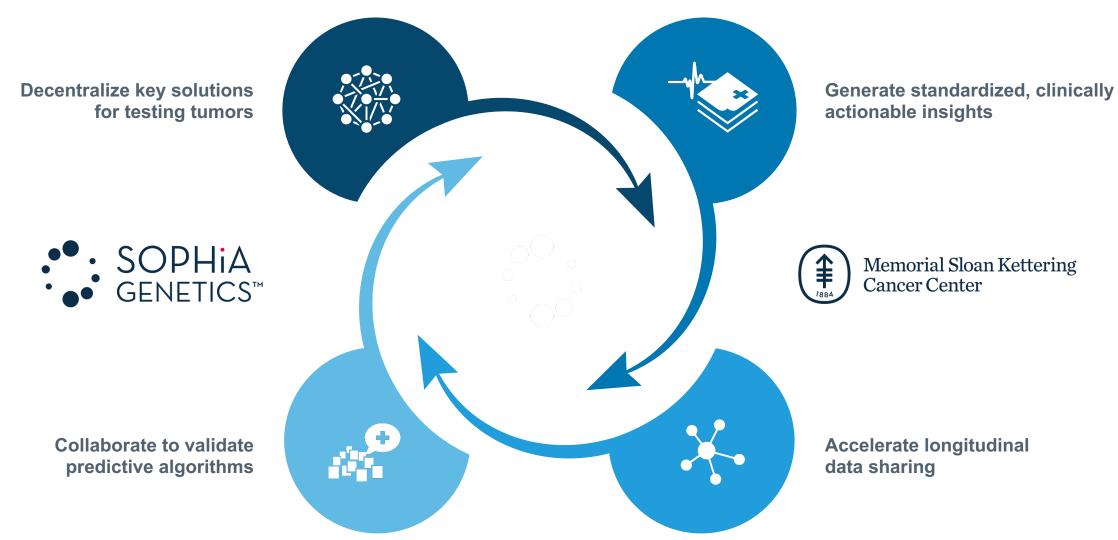
Deployment

Entering markets worldwide with new solutions via **our network**

Data:



Putting our shared vision into practice



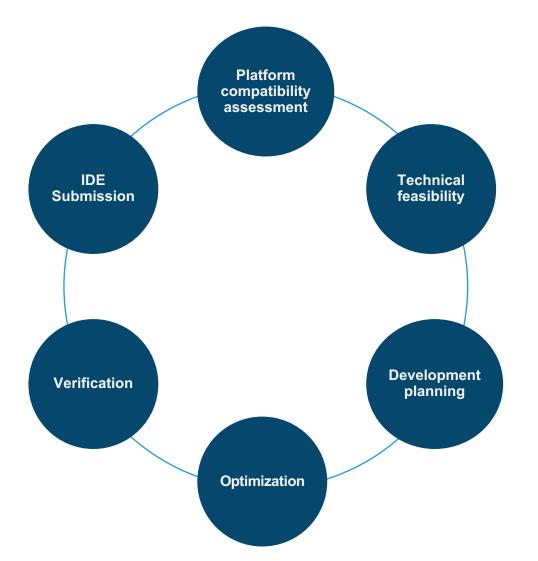
Development:

A partnership powered by our decentralized platform





- Oncogene amplifications frequently occur on ecDNA
- Boundless Bio has built an ecDNA detection algorithm to identify patients with ecDNA driven cancers
- Partnering with SOPHiA to validate ecDNA detection algorithm for the first clinical study of ecDTx





- Decentralized, technology agnostic platform enables the end-to-end development of new solutions
- Application of gene signature across assays to identify patients
- Unlocks a broad spectrum of SOPHiA GENETICS Biopharma capabilities

Deployment:

Expanding access to HRD testing globally

10+
Countries

30+

Institutions



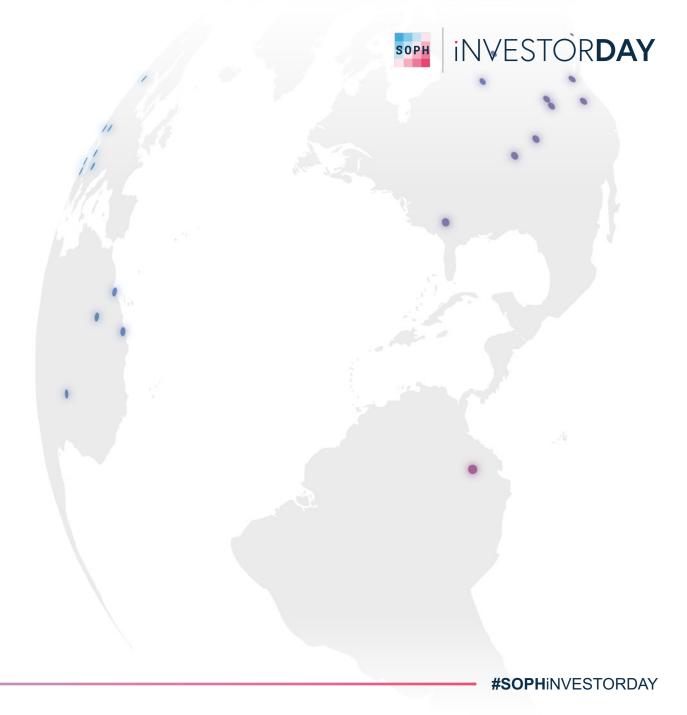
Offering laboratories **innovative** solutions to enable locally-delivered HRD testing



Empowering lab customers to increase range of options for HRD detection



Providing labs with **full control of data to save time and cost**



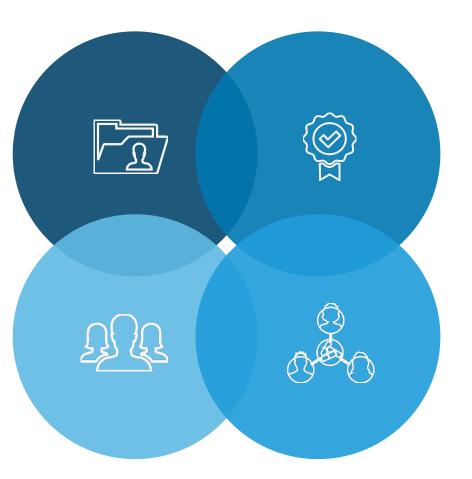
Tearing down data silos to become a full-scale partner



Building an invaluable multimodal data set for better patient care

Improve multimodal data sets to support trial design and asset management

Expand the diversity and depth of clinicogenomic data cohorts



Support translational and clinical trials for patient selection & stratification

Accelerate collective intelligence through contributions of retro and prospective data

Traction best evidenced by customer testimonials...



We see you as a data player... You are on our data strategy roadmap

> Head of BD Precision Medicine Top 20 pharma

Some Your global footprint, universal Some was learn from your approach and ability to deliver data through your tech platform is unique

Immuno-Oncology Lead Top 20 pharma

approach, which we find as the only true holistic view

SVP of Translational Medicine Top 10 biotech

Mhen we hear that major institutions are willing to partner, this is a sign that your approach is solid

Immuno-Oncology Biomarker Lead Top 20 pharma

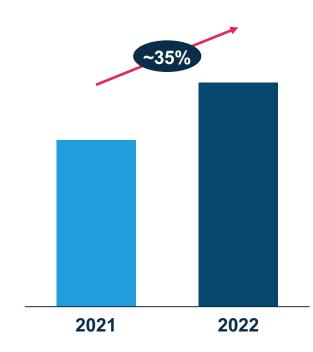
I continue to hear about you guys, your data and the platform

> Head of Diagnostics Top 10 biotech

... and we are seeking to maximize the traction

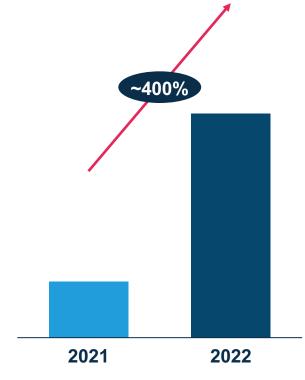


1 Number of pipeline opportunities



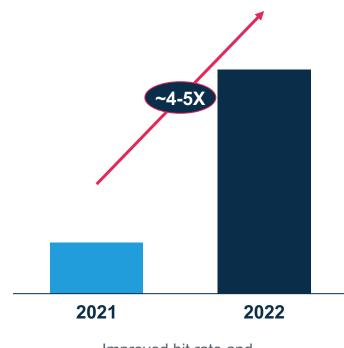
Driven by multimodal deals and better targeting

2 Customer meetings



Higher demand across Data, Development and Deployment

3 Bookings projections



Improved hit rate and larger deal sizes



Identify and nurture

Key takeaways





Informed strategy and targeting

2

Collaboration across 3 d's

3

Positioned to be the multimodal partner of the future



15-minute Break



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The importance of a global collective intelligence

Dr. Philippe Menu

Chief Medical Officer





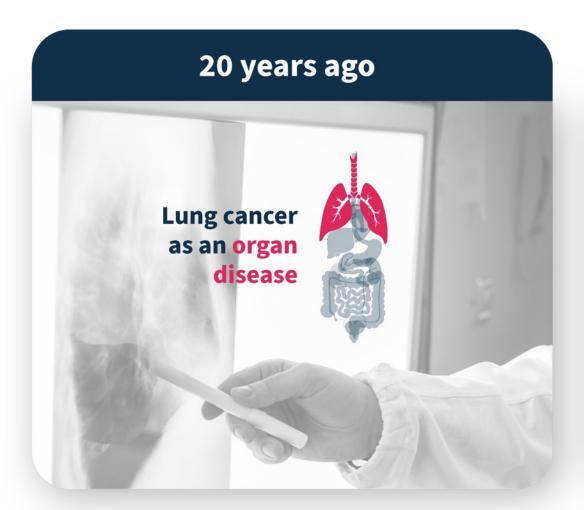
McKinsey & Company

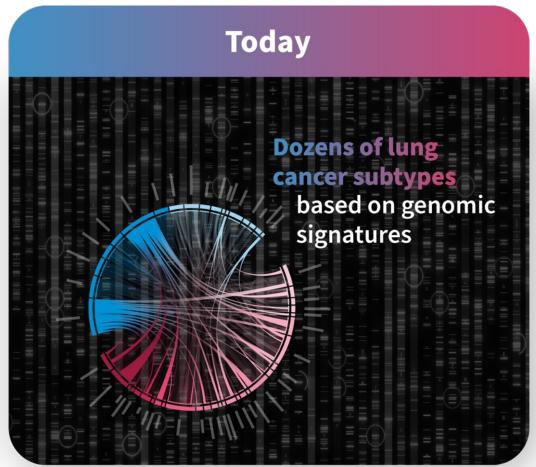
Dr. Philippe Menu

Chief Medical Officer

Oncology has evolved from an organ-level view to a focus on molecular alterations, fueled by genomics



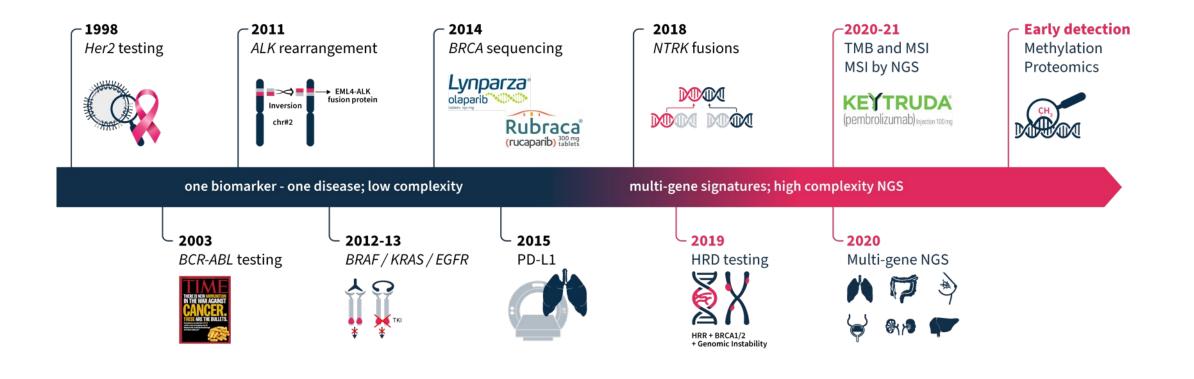




Data-driven medicine is ushering a new era for cancer care

investor**day**

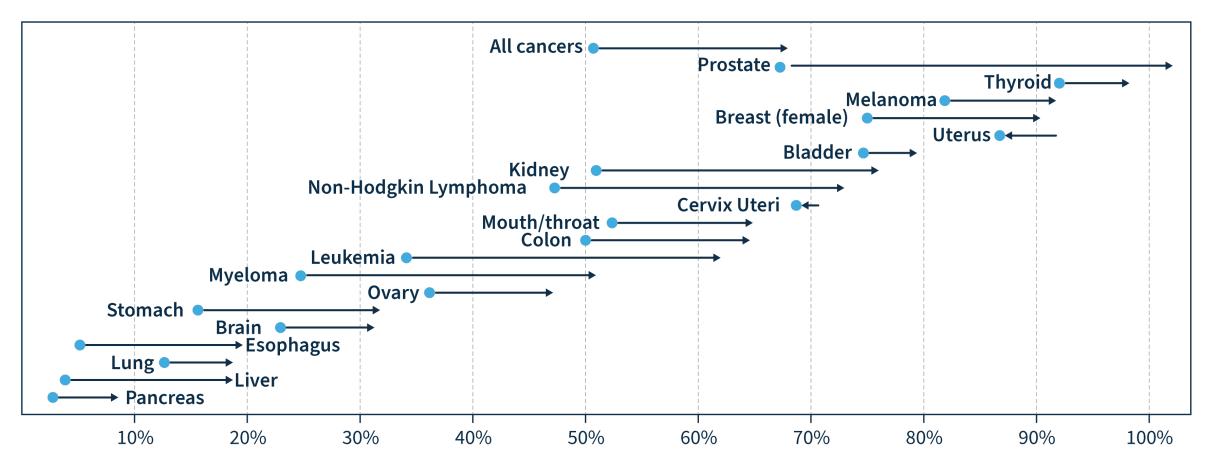
Fueled by increasingly targeted therapies, technology and advanced analytics



investor**day**

Cancer outcomes have been slowly improving over the past 50 years, yet high unmet medical need remains

Average five-year survival rates from common cancer types in the United States, shown as the rate over the period 1970-1977 and over the period 2007-2013. This five-year interval indicates the percentage of people who live longer than five years following diagnosis.

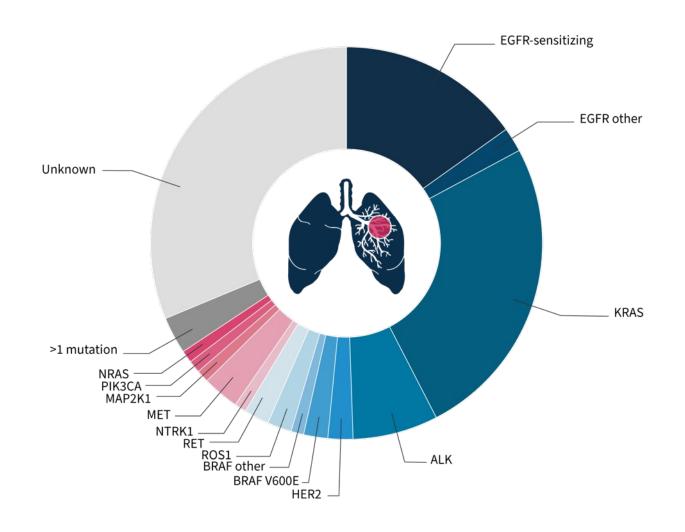


Based on data by Journal of the National Cancer Institute; Surveillance. Epidemiology and End Results Program. Data visualization available at OurWorldinData.org

Today's reality: every cancer is different...

iNVESTOR**DAY**

Example: metastatic lung cancer is increasingly a collection of rare diseases

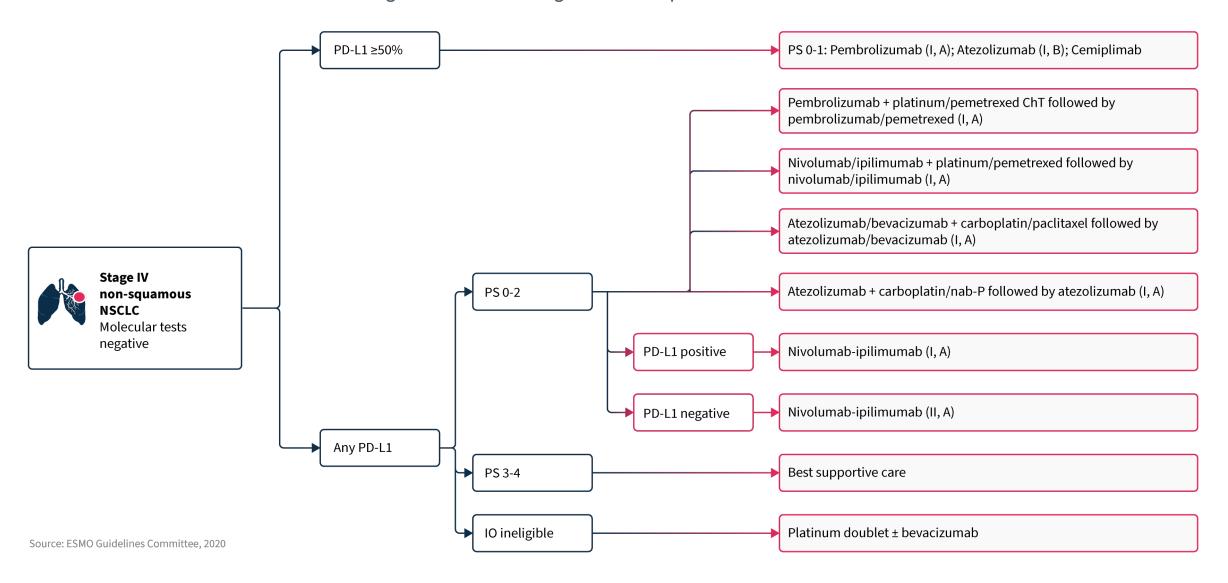


- Specific variants (e.g., KRAS G12C)
- Co-mutations
- Tumor mutational fingerprint evolving over time

... and oncologists face complex therapeutic decisions



Current standard of care for non-oncogene addicted stage IV non-squamous NSCLC

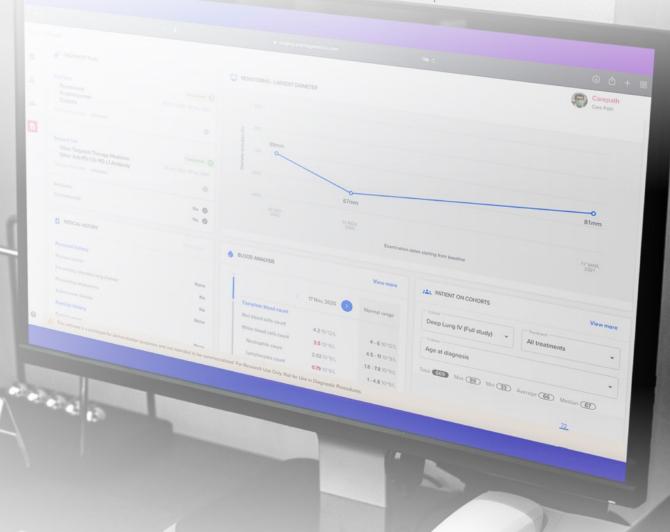


Our SOPHiA DDM platform is part of the solution



GENERATION #2

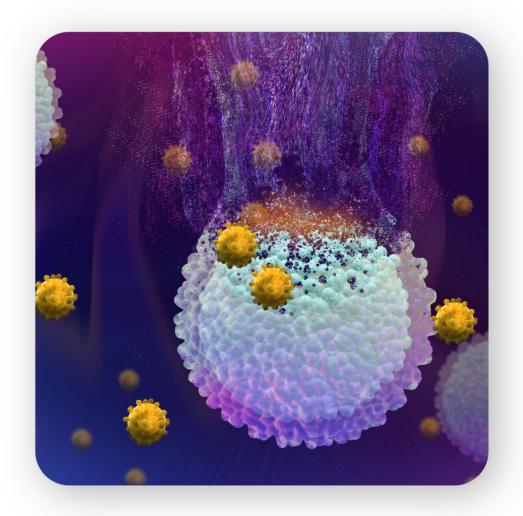
- High accuracy in picking the signal from the noise
- Multimodal and longitudinal real-world data
- Global collective intelligence



Unlocking the power of multimodal digital health data sets



Predicting response to immunotherapy in first-line metastatic non-small cell lung cancer





Immunotherapy offering potential for cures in metastatic lung cancer



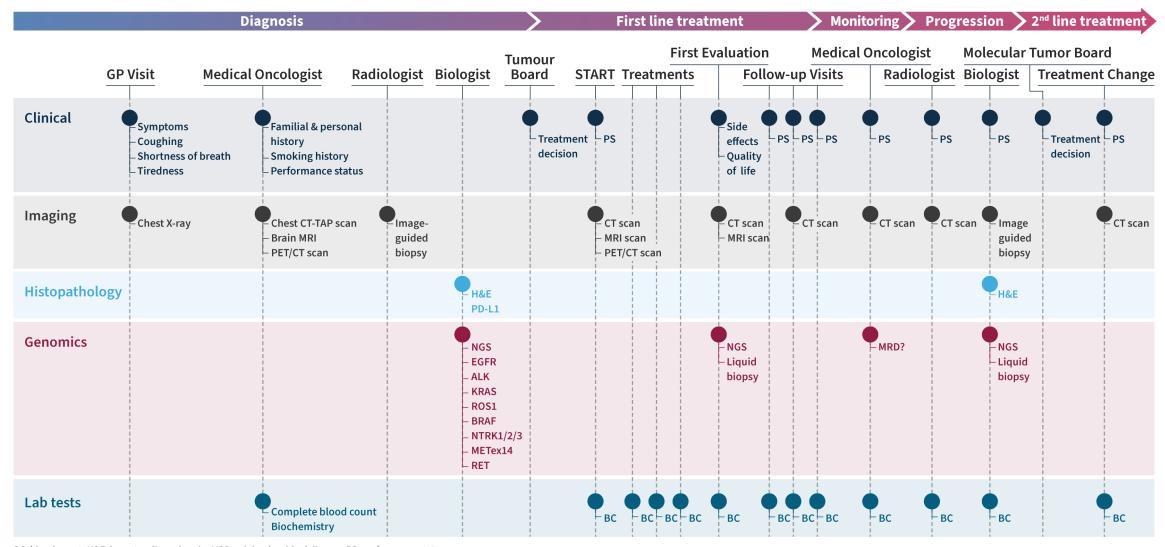
- Majority of non-responders
- Side effects
- Financial toxicity
- Suboptimal biomarkers



- Need for individual-level predictions for patient outcomes
- Multimodality offers a stronger window into biology and disease

The data we need to enable individualized medicine is everywhere – lung cancer example





BC, blood count; H&E, hematoxylin and eosin; MRD, minimal residual disease; PS, performance status.

Multimodal approaches have the potential to transform medicine – lung cancer example



SOPHIA DEEP-LUNG-IV

- Objective:
 Predict response to immunotherapy
 leveraging machine learning predictive
 models based on multimodal data
- **Enrolling target:** 4,000 patients
- Design:
 Multicentric, international
 (~30 sites, ~10 countries), observational

Multimodal data collection timepoint overview (indicative)

		Baseline	1 st evaluation	Progressio
Imaging	CT scan	•	•	
	PET scan, MRI	0	0	0
	Imaging report	•	•	•
Genomics	NGS	•		
Histopathology	PD-L1 immunohistochemistry			
	Histopathology	0		
Lab tests (Blood analysis)	Hematology, biochemistry	•	•	•
Clinical data	Demographics, medical history	•		
	Treatment history	Treatment, advers events, clinical outcomes		
	Tim	e		







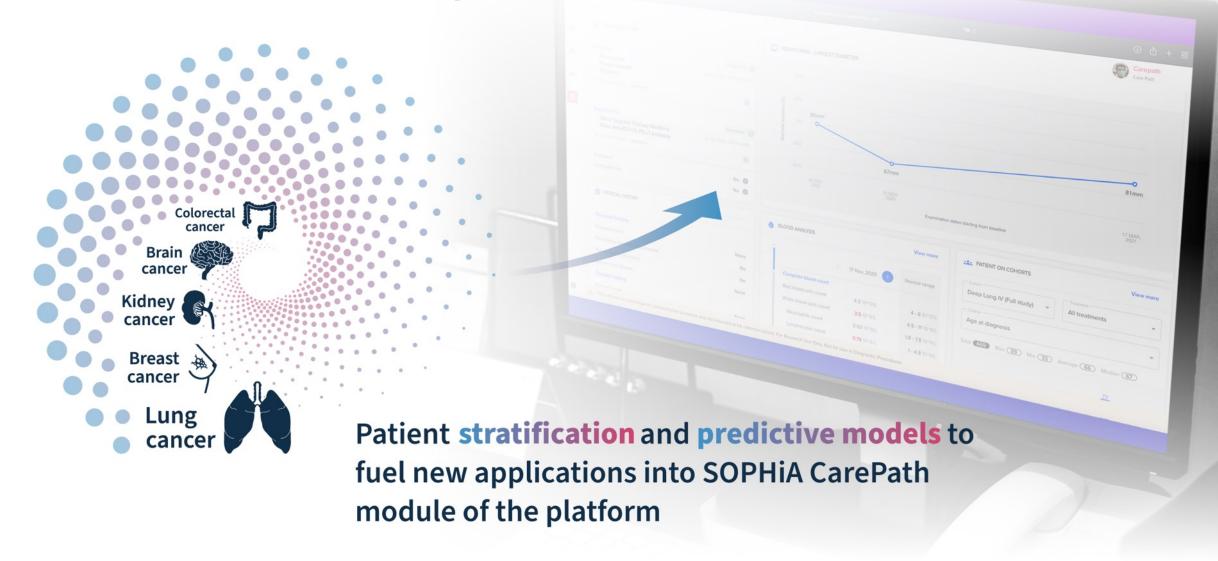






A portfolio of multimodal applications will fuel the SOPHiA CarePath module of our platform





SOPHiA CarePath enables multimodal longitudinal analysis of health data





Longitudinal view across the care journey and across data modalities

Cohorting

Placing the patient in the context of other similar patients across the network

Prediction >===

Predictive analytics modules at an individual level





Data Visualization

Longitudinal view across the care journey and across data modalities

Cohorting

Placing the patient in the context of other similar patients across the network

Prediction

Predictive analytics modules at an individual level

Key takeaways



1

Vision of individualized data-driven medicine

2

Breaking data silos across instruments and institutions

3

Building a global multimodal collective intelligence



Building the platform of the future

Abhi Verma

Chief Technology Officer

Dr. Zhenyu Xu

Chief Scientific Officer





U NOVARTIS

Abhi Verma
Chief Technology Officer

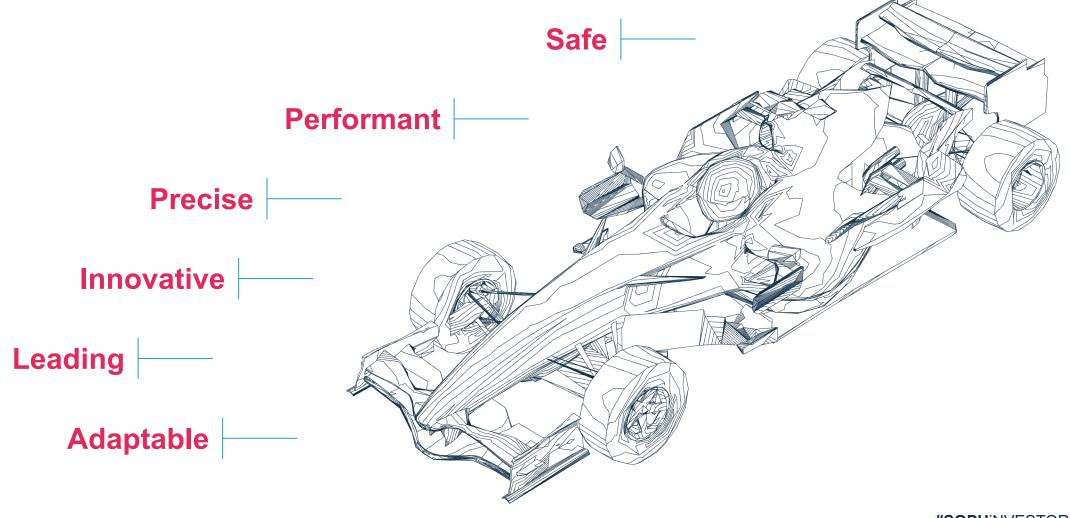


•• SOPHIA
•• GENETICS™

Dr. Zhenyu XuChief Scientific Officer

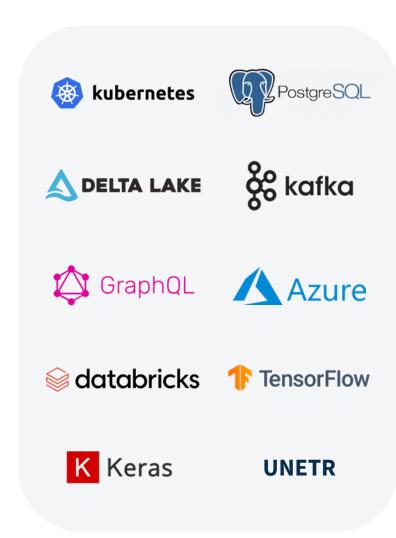
Our technology platform is the frame... powered by our data science engine

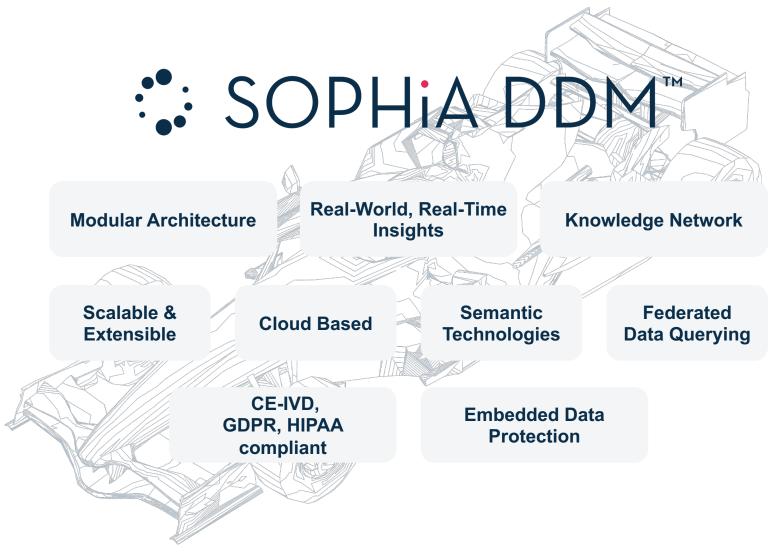




The building blocks integrate to make a state-of-the-art platform



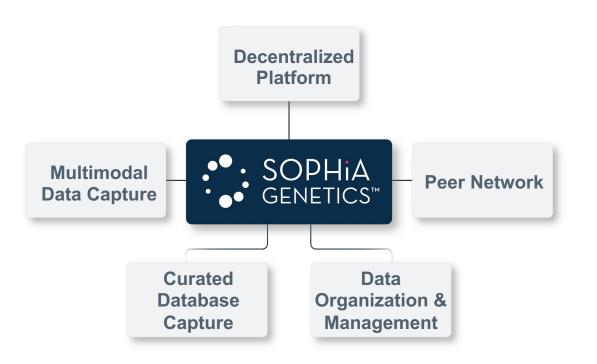




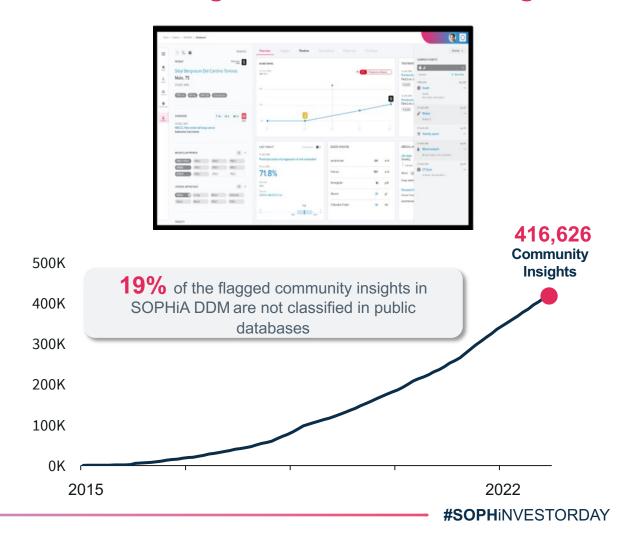
The SOPHiA DDM platform breaks data silos and creates networks



Breaking data silos enables...



Multimodal insights & a collective intelligence



We develop and operate with rapid innovation and continuous improvement



To address the needs and requirements of a constantly evolving market and regulatory environment

Continuous Customer

Enhanced Features &

Analytical

Feedback Loop Functionalities

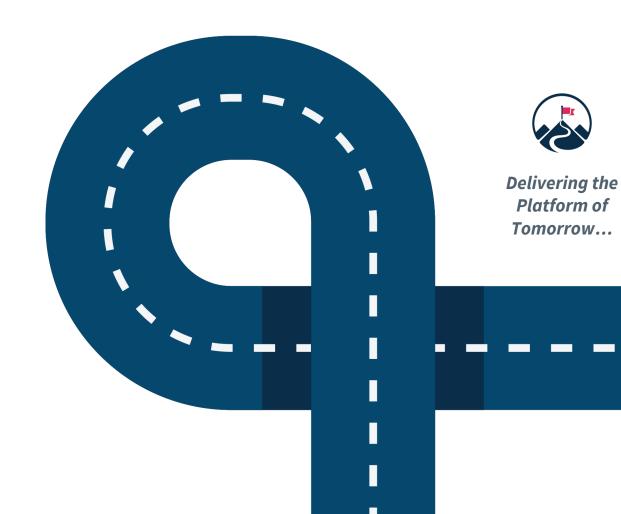
Minimum Viable

Highly

Product Automated

2 Week Release Cycles **Leading DevOps**

Practices



Customer centric approach remains the heart of our platform

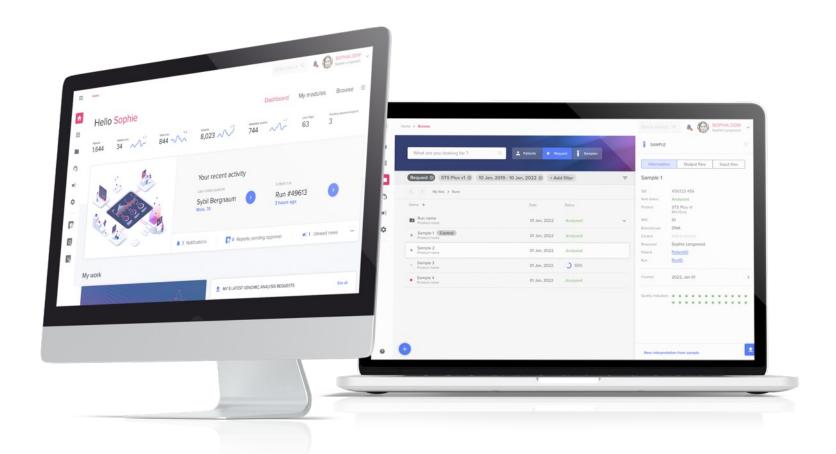


Easy to Deploy

- Click-and-go installation
- Seamless integration across customer IT environments
- Integrated with customer systems and workflows

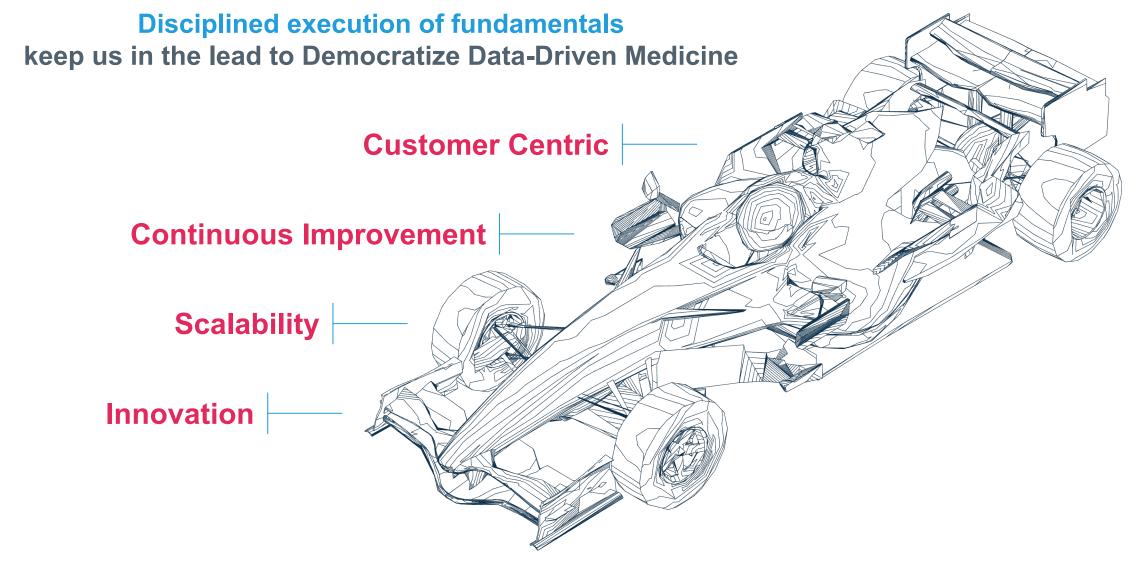
Easy to Use

- Intuitive user interface
- Independent of instruments and chemistries
- Rapid, high quality targeted insights via customized reports



We are in pole position





Leveraging decades of scientific expertise



Science

Gene Loops Enhance Transcriptional Directionality

SUE MELTAN-WOND, JUDITH B. ZAUGG, JURGI CAMBLONG, ZHENYU XU, DAVID W. ZHANG, HANNAH E. MISCHO, ASEEM Z. ANSARI, NICHOLAS M. LUSCOMBE LARS M. STEINMETZ, AND NICK J. PROUDFOOT Fewer Authors Info. & Affiliations

molecular systems biology Antisense expression increases gene expression variability and locus interdependency

Zhenyu Xu, Wu Wei, Julien Gagneur, Sandra Clauder-Münster, Milosz Smolik, Wolfgang Huber, Lars M Steinmetz⊠



Bidirectional promoters generate pervasive transcription in yeast

Zhenyu Xu, Wu Wei, Julien Gagneur, Fabiana Perocchi, Sandra Clauder-Münster, Jurgi Camblong, Elisa Guffanti, Françoise Stutz, Wolfgang Huber & Lars M. Steinmetz ⊡

Widespread bidirectional promoters are the major source of cryptic transcripts in yeast

Helen Neil, Christophe Malabat, Yves d'Aubenton-Carafa, Zhenyu Xu, Lars M. Steinmetz & Alain Jacquier ⊡



Set3 HDAC Mediates Effects of Overlapping Noncoding Transcription on Gene Induction Kinetics

TaeSoo Kim 1, Zhenyu Xu 2, Sandra Clauder-Münster 2, Lars M. Steinmetz 2, Stephen Buratowski 1 R III

Molecular Cell

Extensive Degradation of RNA Precursors by the Exosome in Wild-Type Cells

Rajani Kanth Gudipati ^{1, 3}, Zhenyu Xu ², Alice Lebreton ^{1, 5, 6}, Bertrand Séraphin ⁵, Lars M. Steinmetz ², Alain Jacquier ^{3, 4}, Domenico Libri ¹, 8, 23

Control of Cdc28 CDK1 by a Stress-Induced lncRNA

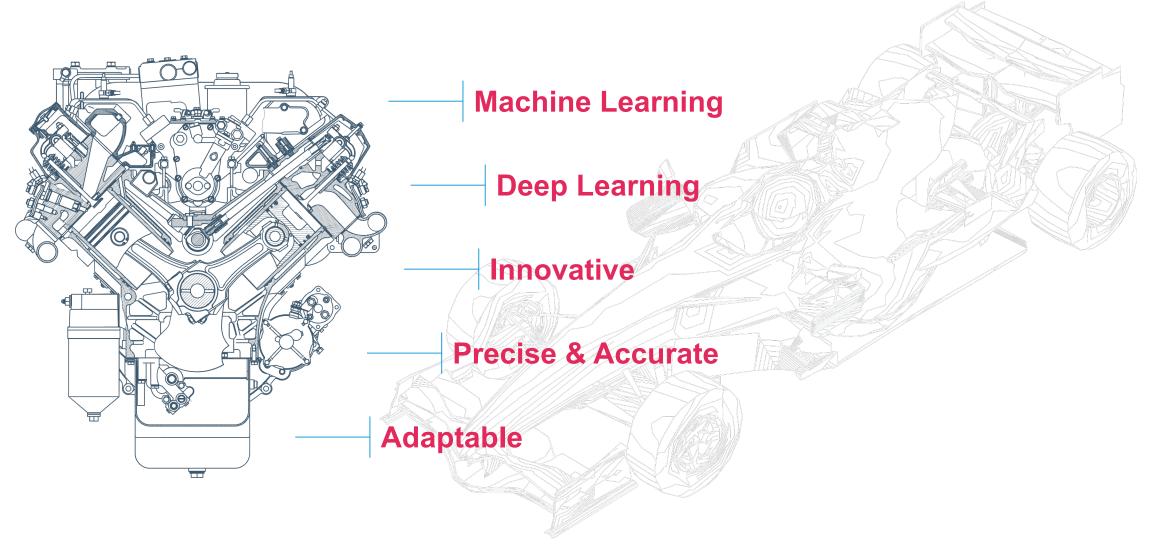
Mariona Nadal-Ribelles ^{1, 1}, Carme Solé ^{1, 3}, Zhenyu Xu ², Lars M. Steinmetz ², Eulália de Nadal ¹ A ⁶⁸, Francesc Ponas ¹ A ⁶⁸





Creating the data science engine of the future





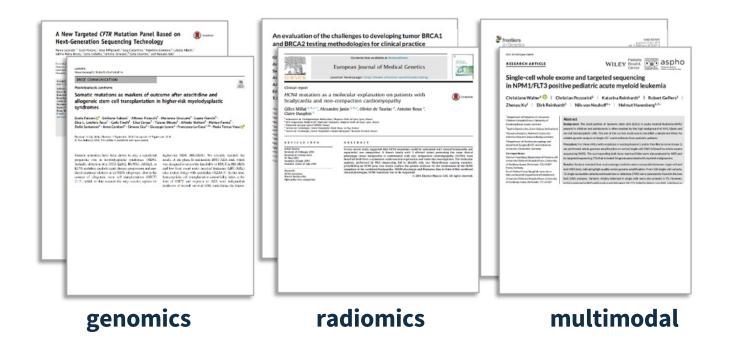
Our engine has been field tested

Across hundreds of peer-reviewed applications in multiple fields



~400

As of September 2022

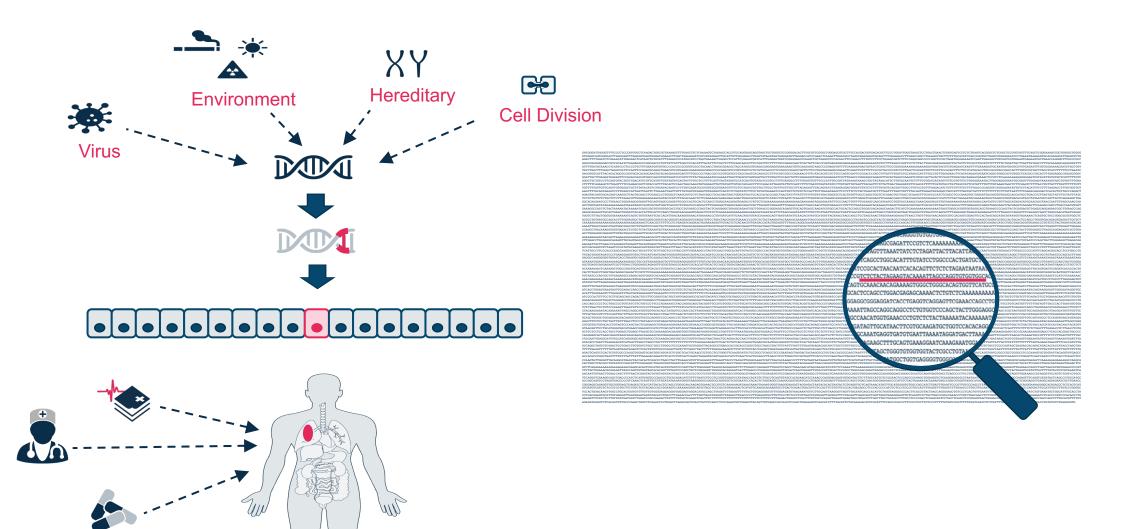




Cancer is the most common human genetic disease



Many internal and external factors can trigger genetic change eventually leading to cancer



Challenges in mutation identification



Combination of technical factors are the major sources of assay discordance



Labs



Sample Type



Chemistry



Sequencers



Evaluating the analytical validity of circulating tumor DNA sequencing assays for precision oncology

JCO[®] Precision Oncology

An American Society of Clinical Oncology Journal Orthogonal Comparison of Four Plasma NGS Tests With Tumor Suggests Technical Factors are a Major Source of Assay Discordance



Daniel Stetson, MS¹; Ambar Ahmed, MS¹; Xing Xu, PhD²; Barrett R.B. Nuttall, MS¹; Tristan J. Lubinski, PhD¹; Justin H. Johnson¹; ...

JAMA Oncology

Comparison of 2 Commercially Available Next-Generation Sequencing Platforms in Oncology

Nicole M. Kuderer, MD^{1,2}; Kimberly A. Burton, PhD^{1,2}; Sibel Blau, MD^{2,3}; et al

» Author Affiliations | Article Information

JAMA Oncol. 2017;3(7):996-998. doi:10.1001/jamaoncol.2016.4983

False-negative errors in next-generation sequencing contribute substantially to inconsistency of mutation databases

Young-Ho Kim, Yura Song, Jong-Kwang Kim, Tae-Min Kim, Hye Won Sim, Hyung-Lae Kim, Hyonchol Jang, Young-Woo Kim, Kyeong-Man Hong 📵

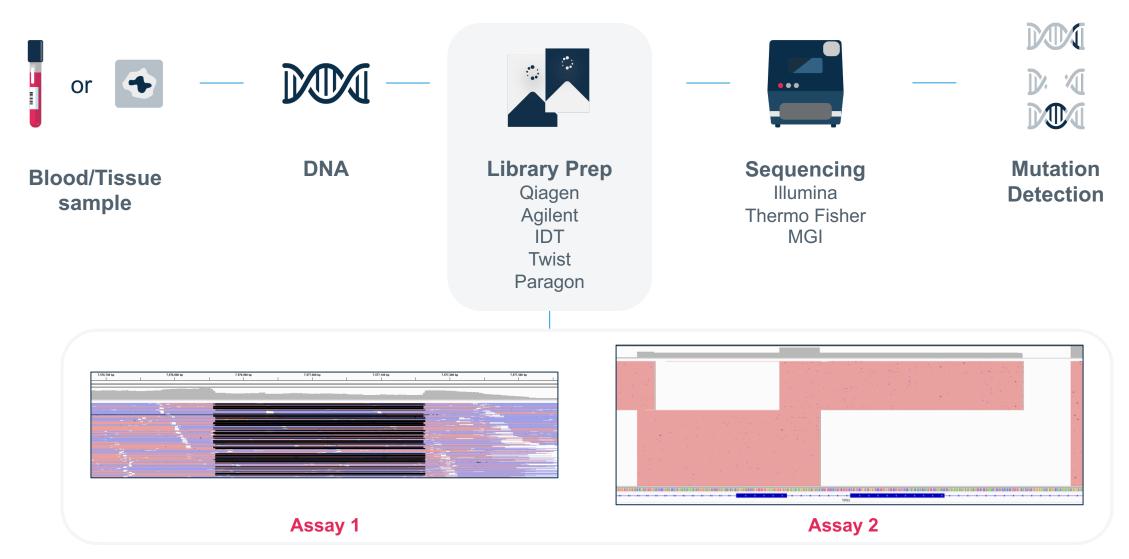
Published: September 12, 2019 • https://doi.org/10.1371/journal.pone.0222535

"Missed mutations (false negatives) were more common than erroneous candidates (false positives)...indicating that the reliable sampling of rare ctDNA fragments is the key challenge for ctDNA assays"

Challenges in mutation identification



Diversity of library prep is needed to address different applications but causes workflow challenges



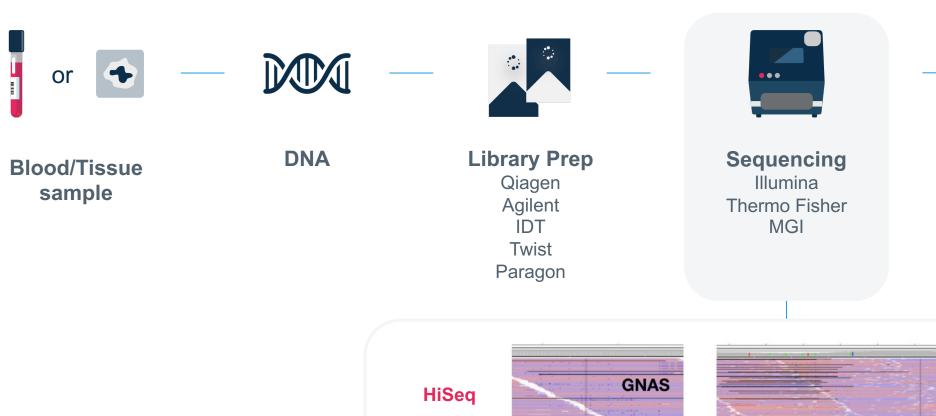
Challenges in mutation identification

investor**day**

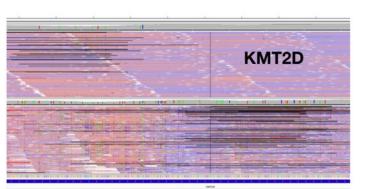
Mutation

Detection

Different sequencers also generate variations in results



NextSeq



Solving the complexity of heterogenous workflows



There is a need for a platform that can harmonize the heterogeneity of workflows

Relevant gene change Relevant gene change

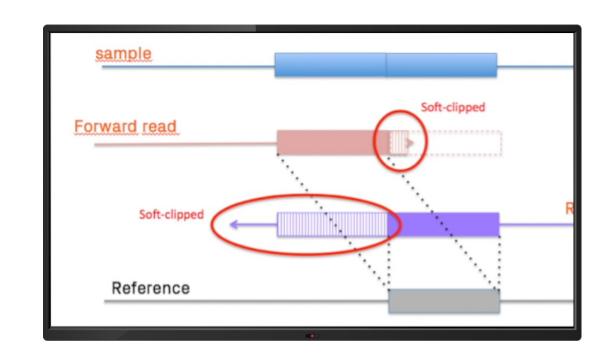
Relevant gene change Reterant gene change

Relevant gene change Reterant gene changes

Relevant gene change Relevant gene change

Relevant gene change Relevant gene change

Relevant gene change Relevant gene change



Deep Learning

Lab Components, e.g. Polymerase

Enrichment Methods

Targeted Genes / Regions

Sequencing Technologies

SOPHIA DDM – Our Versatile Platform

iNVESTOR**DAY**

Our innovative technologies help enable such harmonization



















Data Generation

Sequencing

Variant Detection

Interpretation

Reporting

	Library Prep	Disease Area	Sequencer	Application
Lab 1	Qiagen Agilent	Germline / Hereditary Cancer Germline / Rare Disease	Illumina	BRCA1 c.874del SLC2A c.696_697insAT
Lab 2	Thermo Fisher	Somatic / Solid Tumor	Thermo Fisher	EGFR+
Lab 3	IDT Illumina Invitae	Germline / Hereditary Cancer Somatic / Myeloid Disease Somatic / Fusion	Illumina	Boland Inversion FLT3 ITD ALK+
Lab 4	Paragon	Germline / Hereditary Cancer	MGI	BRCA1 exon 1-2 dup m.16189T>C
Lab 5		Germline / Rare Disease		No NGS Capacity



PEPPER™

Accurate SNP and INDEL Detection Secondary Analysis



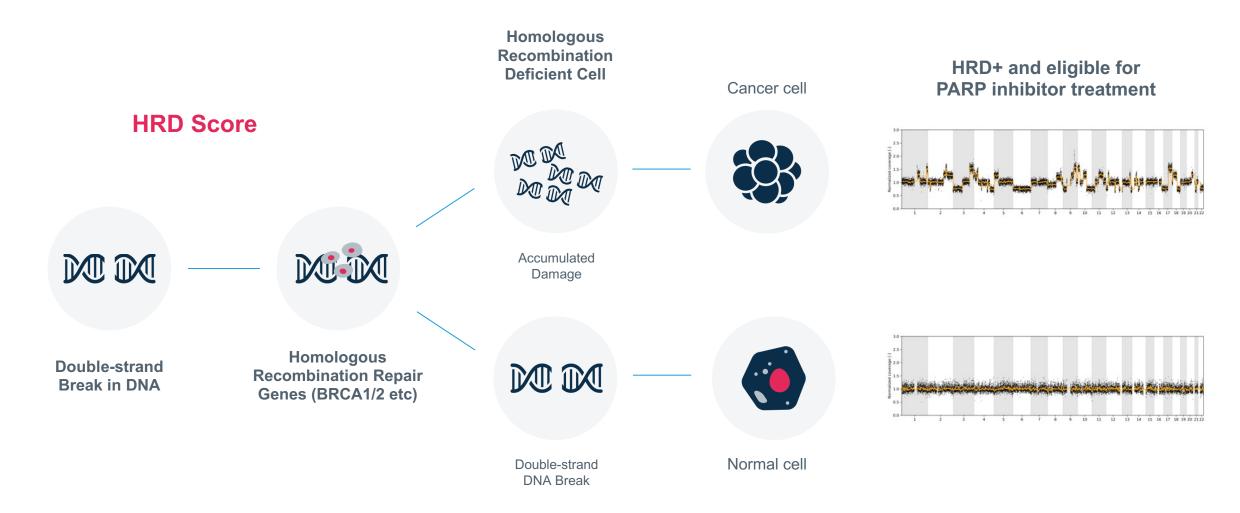
Superior CNV Resolution Secondary Analysis



Advanced Variant Annotation Tertiary Analysis

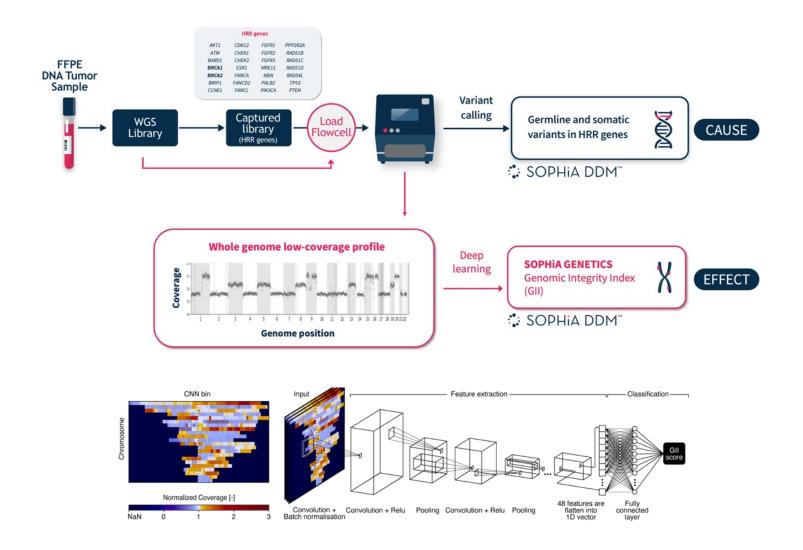
Leveraging our platform to inform PARP1 inhibition







Creating a harmonized, highly accurate and precise technology



~1 year to develop and deploy



Creating a harmonized, highly accurate and precise technology

Excellent concordance with reference method

Consistency across genomic workflows

Consistency across laboratories

Excellent concordance with reference method in a decentralized way

Performance metric	Value (95% CI interval)			
Overall percent agreement (OPA)	93.7% (91.0%, 95.6%)			
Negative percent agreement (NPA)	96.4% (93.1%, 98.2%)			
Positive percent agreement (PPA)	90.8% (86.2%, 94.0%)			
Overall rejection rate	4.9%			
Relative rejection rate	1.9%			
Equal performance to a centralized method				



Creating a harmonized, highly accurate and precise technology

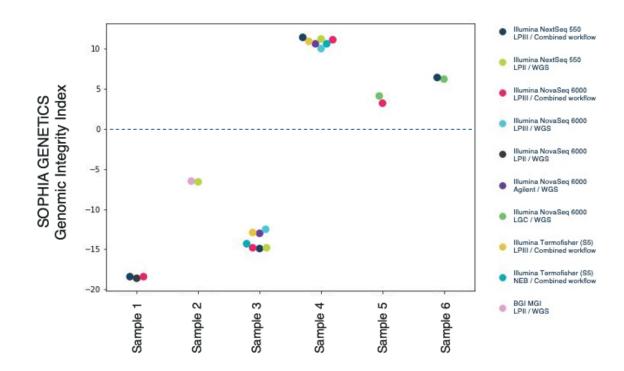
Excellent concordance with reference method

Consistency across genomic workflows

Consistency across laboratories



Consistency across different genomic workflows



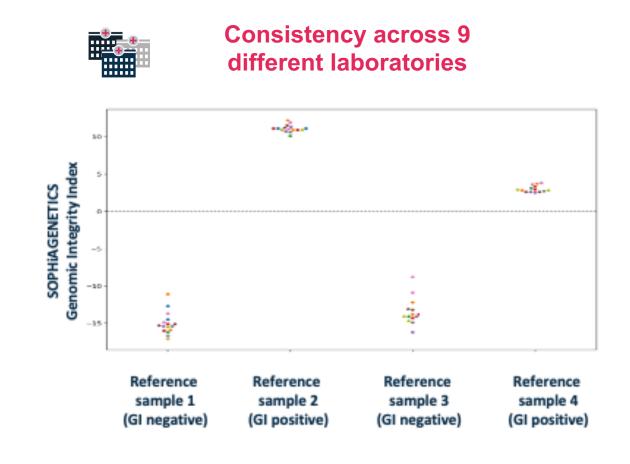


Creating a harmonized, highly accurate and precise technology

Excellent concordance with reference method

Consistency across genomic workflows

Consistency across laboratories



Applying our technologies and expertise to other data modalities

Leveraging our deep genomics expertise to harmonize radiomics



3D tumor segmentation

Data standardization and pre-processing

Radiomics features extraction (200+)



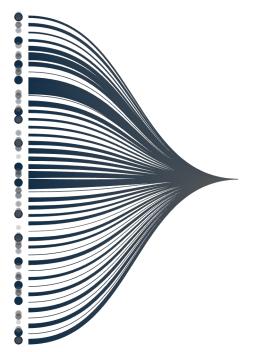
CT – Lung Cancer

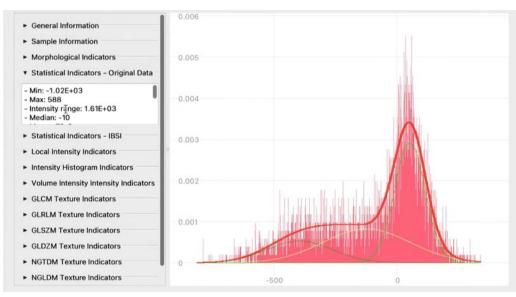


MRI - Brain Cancer



PET – Head and Neck Cancer

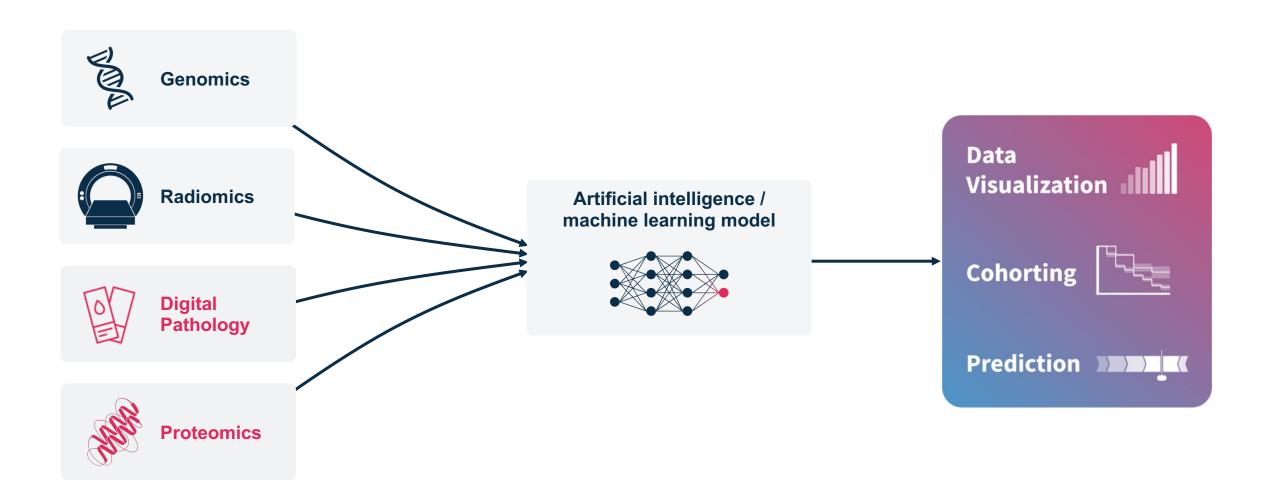




Unlocking the potential of multimodal health data



Expanding our reach to other modalities will help further amplify our platform's capabilities



Key takeaways



We are the platform of the future



2



Unmatched platform fundamentals

Unique algorithmic capabilities

Potential to evolve & expand



Delivering value creation via sustainable growth

Ross Muken

Chief Financial Officer





Evercore



BANK OF AMERICA "

Deutsche Bank



Chief Financial Officer

SOPHiA's platform strategy is resonating with customers



750+

Total customers (1)(2)

5,000+

Users across network (4)

\$47.0 - \$49.5M

2022 revenue guidance (5)

64% | 66%

1H 2022 IFRS gross margin | adjusted gross margin (1)(6)

380+

Recurring platform customers (1)(3)

~260,000

Genomic profiles analyzed over last 12 months (1)

30% - 35%

'21 - '22 constant currency core revenue growth (5)

\$215M+

Cash, cash equivalents, & term deposits (1)

SOPHiA's platform strategy is resonating with customers



750+

Total customers (1)(2)

5,000+

Users across network (4)

\$47.0 - \$49.5M

2022 revenue guidance (5)

64% | 66%

1H 2022 IFRS gross margin | adjusted gross margin (1)(6)

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30% - 35%

'21 - '22 constant currency core revenue growth (5)

\$215M+

Cash, cash equivalents, & term deposits (1)

Our key software KPIs remain exceptional





30+

New Logos

1H 2022 New recurring platform customers

- Evidence of success in the land portion of our growth strategy
- Strong new customer growth Showcases our ability to continue penetrating our large addressable market



\$91K+

ARPU

Average revenue per platform customer (1)

- Evidence of success in the expand portion of our growth strategy
- Consistent growth historically Mix of same-store analysis / patient volume growth and menu expansion



120%+

NDR

Net dollar retention (2)

- Evidence of success in the expand portion of our growth strategy
- Top tier performance Proxy for organic customer growth less churn (supports high revenue visibility)



3.1x

LTV / CAC

Lifetime value / customer acquisition cost (3)

- Evidence of success in the efficiency of our commercial efforts and ability to create value via Land and Expand
- Strong performance Demonstrates ability to cost effectively acquire new logos, grow and retain them



\$85M+

RPO

Remaining performance obligation (4)

- Evidence of visibility and predictability into future revenue performance (backlog coverage)
- Superior visibility Majority of forward revenue derived from existing consumption + upcoming expansion / implementations

#SOPHiNVESTORDAY

Focused initiatives to drive continued durable growth



1. Fueling our growth engine

New product launches

- CarePath
- HRD

Tier-1 partnerships

- Memorial Sloan Kettering
- Launch of GE Healthcare

BioPharma traction

- Boundless Bio
- AstraZeneca

Geographic penetration

- Significant new wins in APAC & LATAM
- Continued central lab momentum in US

Enhancing customer journey

- Repositioning sales force
- Enhanced focus on upselling / cross selling

2. Driving sustainability

Enhancing FTE productivity

- Consistent focus on process improvement
- Proper utilization of automation / systems
- Key KPI: Revenue per FTE

Gross margin efficiencies

- Cloud compute / storage optimization effort
- Leverage existing customer service organization
- Key KPI: Gross margin

Optimizing R&D and commercial investments

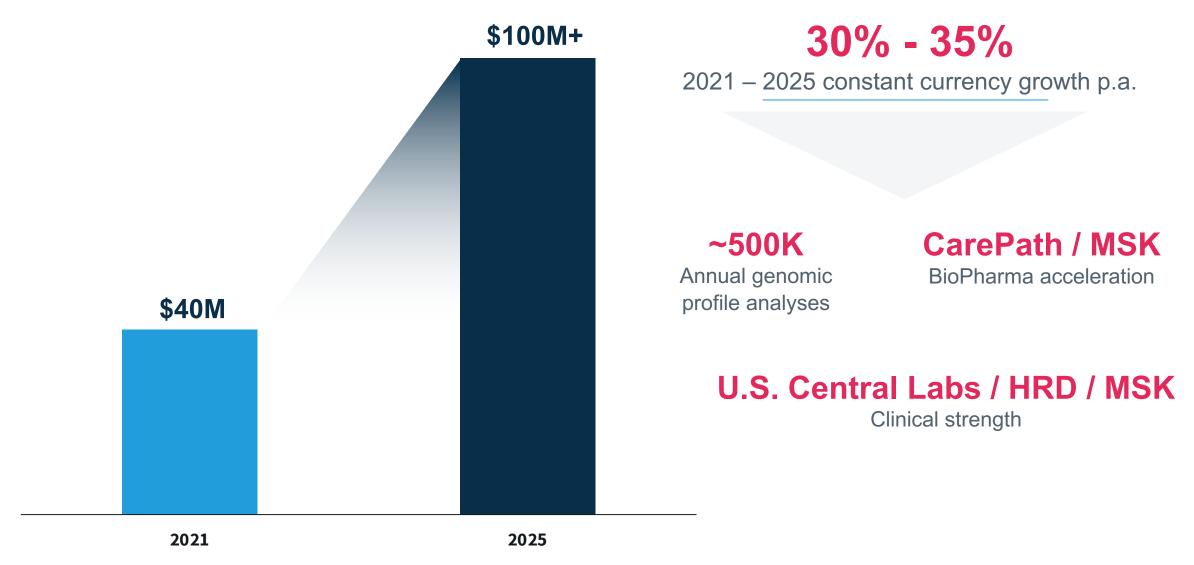
- NORAM / Pharma salesforce now complete
- Product roadmap narrowed to high impact launches
- Key KPI: OpEx growth vs. revenue

OpEx efficiencies

- Public company cost normalization
- Leverage quality and regulatory investments
- Key KPI: Fixed cost leverage (operating loss)

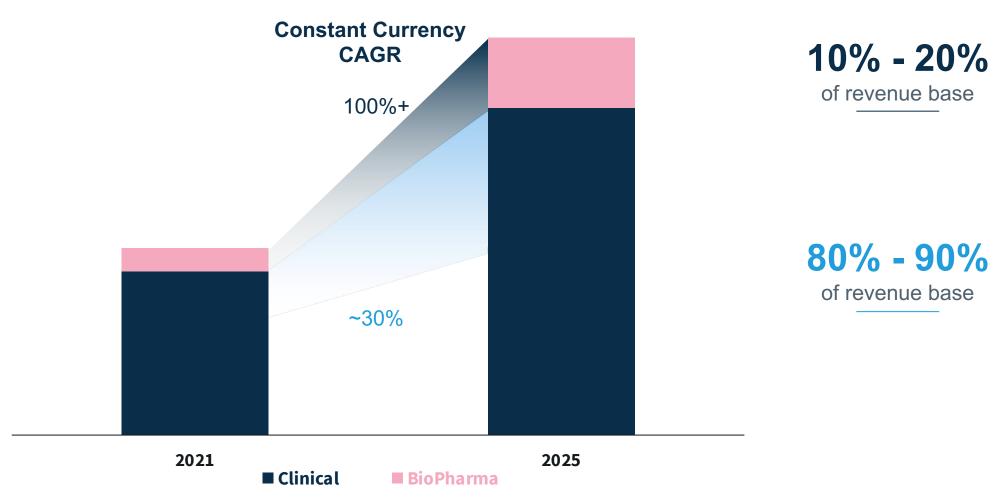
The path to \$100M+ in revenue by 2025





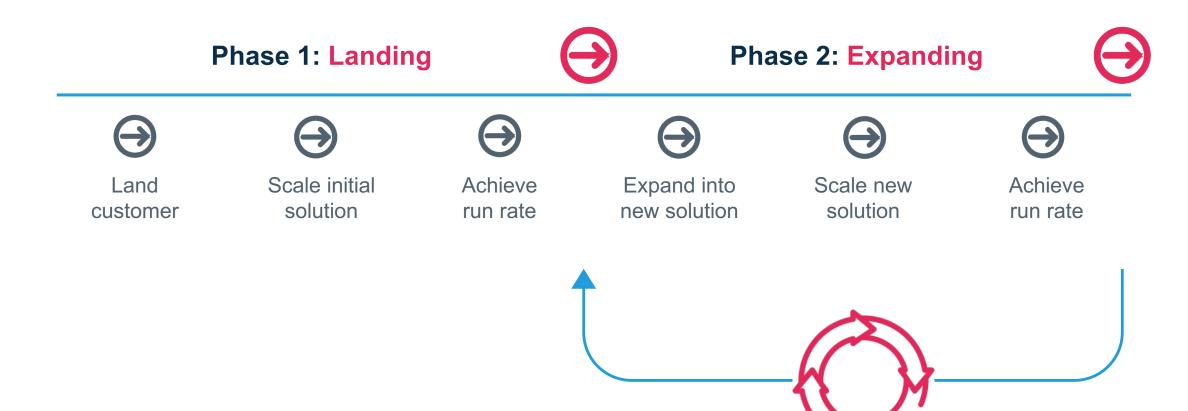
Flywheel effect to boost biopharma contribution





Land and expand fuels efficient value creation





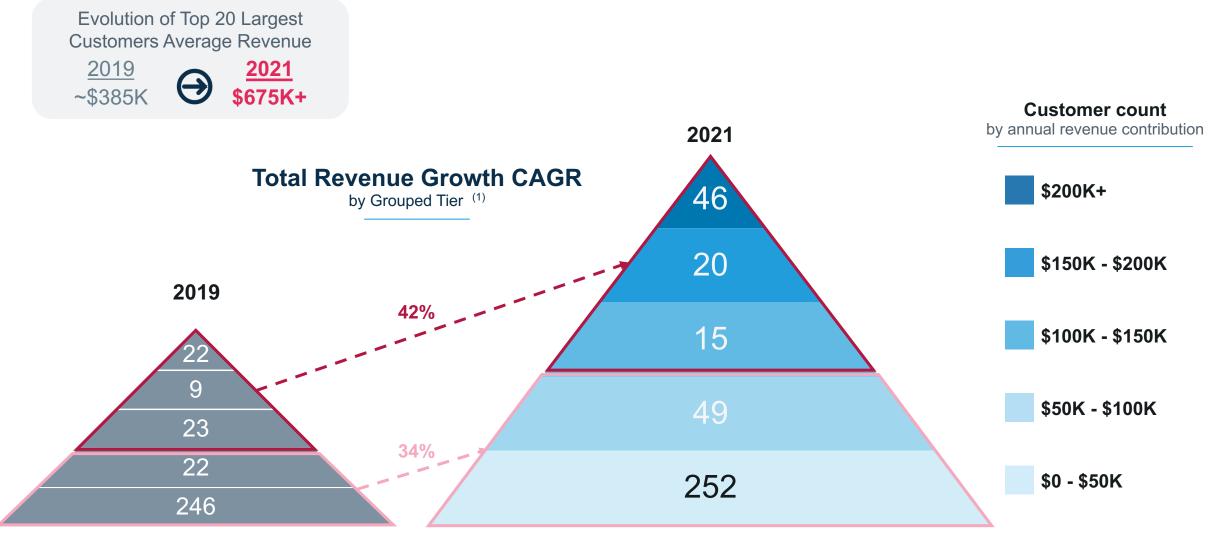
Virtuous flywheel

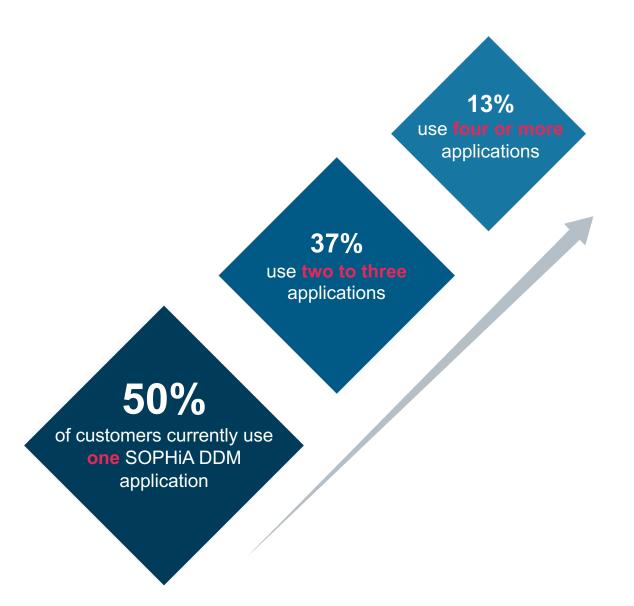
Consistently expanding value contributed by customer

Customer consumption momentum builds over time

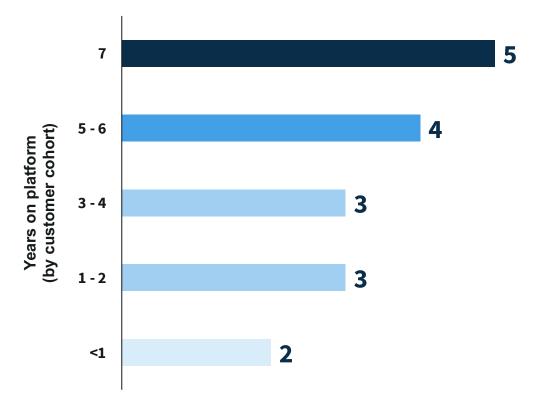


Our largest customers will continue to get even bigger





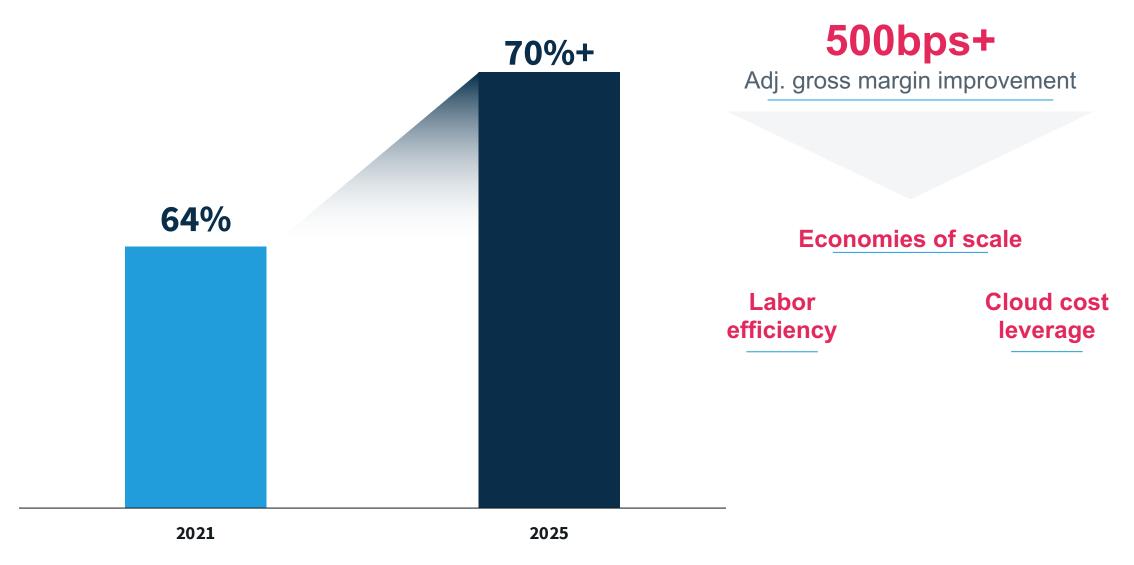
Recurring platform customers consistently add **solutions** as they **spend more time** on the platform



Average number of solutions used

GM expansion through efficiency and economies of scale





Operating leverage across the cost continuum



FY2022 adj. operating expenses

Go-forward trend

Wages & benefits

 Limited headcount growth expected as future revenue can be supported by existing human capital base

Adj. Fixed Costs

- Public company-related fees not expected to grow substantively
- Fixed asset growth and facility expansion to be modest

Adj. Variable Cost

- Discretionary compensation growing with revenue, albeit more slowly
- Cost savings initiatives will help improve leverage, as non-headcount related expenses are not expected to scale proportionately with revenue

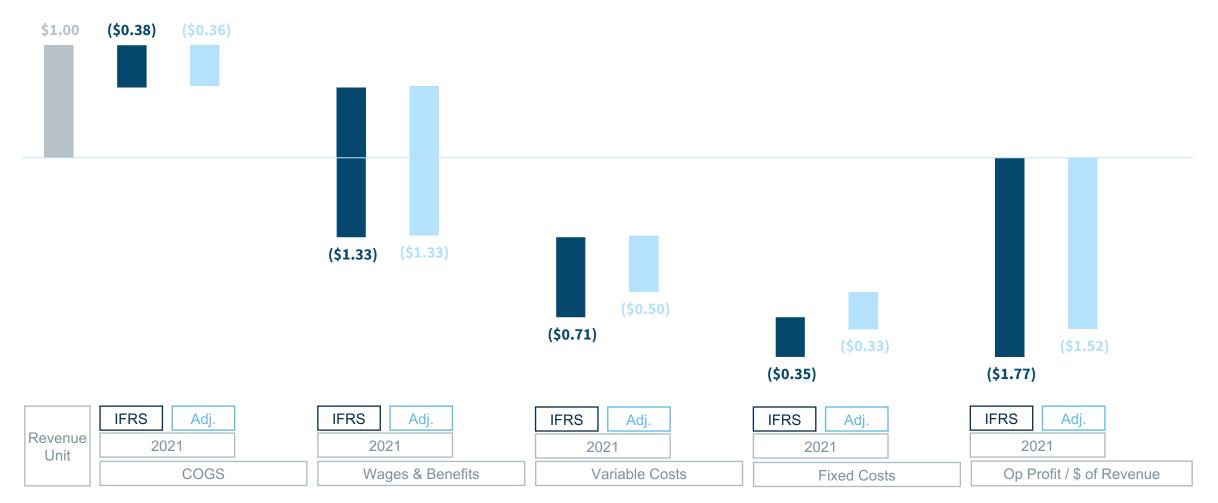
Incremental margin

> 55%

Strong OM leverage due to efficient growth

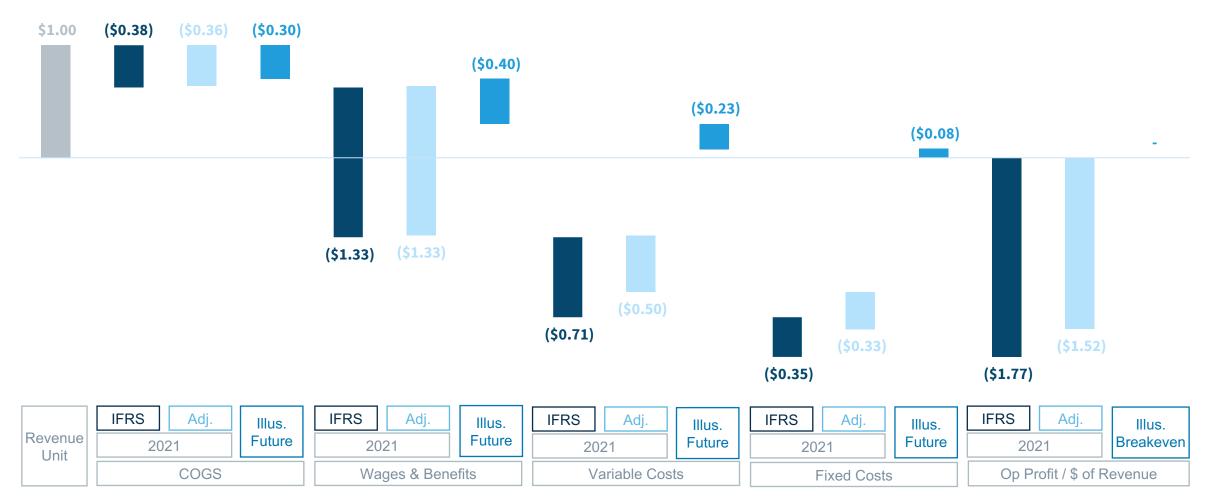
Positioning us on a path to breakeven





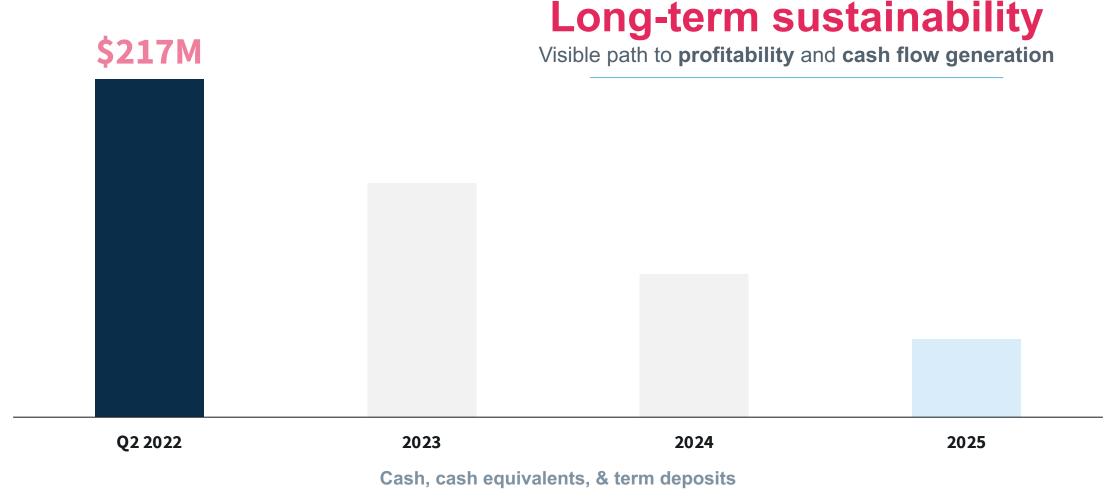
Positioning us on a path to breakeven





Ample capital to execute on key initiatives





Though we have been successful... this is only the beginning





Transformative product launches



Enhanced customer journey



BioPharma traction



Leading partnerships



Gross margin improvements



Sustained operating leverage



Optimized product and commercial investments



Ample cash runway and path to profitability

Today, we answered THREE important questions



- 1 How we sell
- 2 How we innovate
- 3 How we grow sustainably







LEARN MORE ABOUT SOPHIA GENETICS

- sophiagenetics.com
- in linkedin.com/company/sophiagenetics
- @sophiagenetics





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∴ SOPHIA GENETICS™

Appendix



Customer Disclosure: Represents active customers who have generated revenue through DDM platform usage or Alamut licenses in the trailing 12-month period as of June 30, 2022.

Recurring Platform Customer Disclosure: Defined as the number of customers who accessed our platform through the dry lab access and bundled access models and generated revenue during the specified time period, which, in this case, is the twelve months ended June 30, 2022.

ARPU Disclosure: We calculate a rolling 12-month average revenue per platform customer based on the total revenue generated by our customers divided by the total number of customers. Average revenue per platform customer is a function of analysis volume, product pricing, access model used, and customer size mix.

NDR Disclosure: To calculate net dollar retention, we first specify a measurement period consisting of the trailing two-year period from our fiscal period end. Next, we define a measurement cohort consisting of platform customers who use our dry lab access and bundle access models from whom we have generated revenues during the first month of the measurement period, which we believe is generally representative of our overall dry lab access and bundle access customer base. We then calculate our net dollar retention as the ratio between the U.S. dollar amount of revenue generated from this cohort in the second year of the measurement period and the U.S. dollar amount of revenue generated in the first year. Any customer in the cohort that did not use our platform in the second year is included in the calculation as having contributed zero revenue in the second year.

LTV / CAC Disclosure: We calculate LTV for the stated time period by dividing the average revenue per customer by the revenue churn rate, which we define as the annualized revenues we estimate to have lost from customers who have not generated revenue over the past 12 months in that period based on their average quarterly revenue contributions from point of onboarding as a percentage of total recurring platform revenue and multiplying by average gross margin for dry lab and bundle access customers. We calculate CAC for the stated time period based on sales and marketing expenses divided by the number of new customers that we acquired who have generated revenue over the period.

RPO Disclosure: Remaining performance obligation ("RPO") as of a determination date is defined as the approximate revenue expected by SOPHiA GENETICS SA ("the Company") for the three-year period beginning after such determination date based on its existing contracts. The Company classifies its contracts with customers into four types: hard commitment, public tenders, soft commitment, no commitment. Hard contracts contain legally enforceable minimum order amounts. Public tenders are contracts with public institutions pursuant to a request for proposal process that specify expected minimum order amounts. Soft commitment contracts contain expected order amounts that are not legally enforceable but contain certain incentives for the customer to achieve such order amounts. No commitment contracts have expected order amounts that are not legally enforceable and do not contain any incentives for the customer to achieve such order amounts. In calculating RPO, the Company assumes that it will (i) collect on all revenues associated with the minimum order amounts in hard commitment contracts and public tenders entered into prior to January 1, 2022, (ii) collect on a percentage of revenues associated with the expected order amounts in soft commitment contracts entered into prior to January 1, 2022, with such percentage being equal to the percentage of revenues associated with expected order amounts in no commitment contracts entered into prior to January 1, 2022, with such percentage being equal to the percentage of revenues associated with expected order amounts in no commitment contracts entered into prior to January 1, 2022, with such percentage being equal to the percentage of revenues associated with expected order amounts in no commitment contracts that the Company collected over the three most recently completed fiscal years prior to the determination date, (iii) collect on all revenues associated with contracts entered into on or after January 1, 2022, which assumption the Company believes is supported by a review

Reconciliation of IFRS to adjusted gross profit and gross profit margin for 1H 2022



Amounts in USD thousands (unaudited)

	Six months ended June 30, 2022		
Revenue	\$22,528		
Cost of revenue	(8,197)		
Gross profit	\$14,331		
Amortization of capitalized research and development expenses (1)	451		
Adjusted gross profit	\$14,782		
Gross profit margin	64%		
Amortization of capitalized research and development expenses (1)	2%		
Adjusted gross profit margin	66%		

Reconciliation of IFRS to adjusted operating profit for FY 2021



Amounts in USD thousands (unaudited)	IFRS Financials	Amortization of Capitalized R&D Expenses ⁽¹⁾	Damaged Inventory Write-off ⁽²⁾	Amortization of Intangible Assets ⁽³⁾	Share-Based Compensation Expense ⁽⁴⁾	Non-Cash Pension Expense ⁽⁵⁾	Non-Recurring IPO-related Expenses (6)	Adjusted Financials
Revenue	\$40,450							\$40,450
Cost of Revenue	(15,229)	483	88					(14,658)
Gross Profit	\$25,221	\$483						\$25,792
Wages & Benefits	(53,739)							(53,739)
Variable Expenses	(28,759)				8,514			(20,245)
Fixed Expenses	(14,212)			609		(73)	323	(13,353)
Total Operating Expenses	(96,710)	-	-	609	8,514	(73)	323	(87,337)
Operating Loss	(\$71,489)	\$483	\$88	\$609	\$8,514	(\$73)	\$323	(\$61,545)
	IFRS Financials	% of Revenue	Adjusted Financials	% of Revenue				
Revenue	\$40,450		\$40,450					
Cost of Revenue	(15,229)	(38%)	•					
Gross Profit	\$25,221	62%		` /				
Wages & Benefits	(53,739)	(133%)	(53,739)	(133%)				
Variable Expenses	(28,759)	(71%)						
Fixed Expenses	(14,212)	(35%)	(13,353)	(33%)				
Total Operating Expenses	(96,710)	(239%)	(87,337)	(216%)				

Notes to the reconciliation of IFRS to adjusted financial measures tables



- (1) Amortization of capitalized research and development expenses consists of software development costs amortized using the straight-line method over an estimated life of five years. These expenses do not have a cash impact but remain a recurring expense generated over the course of our research and development initiatives.
- (2) Damaged inventory write-off consists of expenses associated with the write-off of inventory that were damaged as a result of a refrigeration equipment malfunction. These expenses are not expected to be a recurring event in our business, but we expect such expenses could still be incurred from time to time.
- (3) Amortization of intangible assets consists of costs related to intangible assets amortized over the course of their useful lives. These expenses do not have a cash impact, but we could continue to generate such expenses through future capital investments.
- (4) Share-based compensation expense represents the cost of equity awards issued to our directors, officers, and employees. The fair value of awards is computed at the time the award is granted and is recognized over the vesting period of the award by a charge to the income statement and a corresponding increase in other reserves within equity. These expenses do not have a cash impact but remain a recurring expense for our business and represent an important part of our overall compensation strategy.
- (5) Non-cash pension expense consists of the amount recognized in excess of actual contributions made to our defined pension plans to match actuarial expenses calculated for IFRS purposes. The difference represents a non-cash expense but remain a recurring expense for our business as we continue to make contributions to our plans for the foreseeable future.
- (6) Non-recurring IPO-related expenses represent expenses incurred for our initial public offering that were not capitalized and are not expected to be recurring during the ordinary course of our business.