

Democratizing Data-Driven Medicine Together



# **Corporate Overview**

September 2021

#### **Disclosure**

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, 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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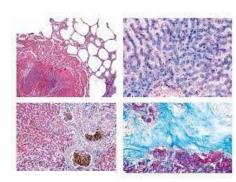
This presentation includes non-IFRS measures. These measures are not measures of financial performance prepared in accordance with IFRS as issued by the IASB and may exclude items that are significant in understanding and assessing our financial results and condition. Therefore, these measures should not be considered in isolation or as alternatives to IFRS measures. In addition, other companies may calculate similarly-titled non-IFRS measures differently. For reconciliation of IFRS measures to non-IFRS measures, see Appendix.

# Our Vision for Technology to Improve Patient Care and Diagnosis

Delivering a SaaS platform to break data silos and share insights

#### **TODAY**







Single Modality

Data Siloes

Centralized Model

Limited

Disconnected

Difficult to Scale

#### **TOMORROW**



Multimodal

Machine Learning

Decentralized

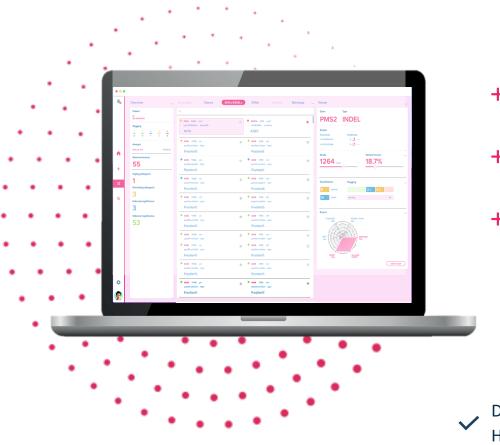
Scalable

**Global Network** 

**Knowledge Sharing** 

#### **Our SOPHiA Platform**

A decentralized model where users keep data and share insights



- + Software as a Service (SaaS) cloud platform
- + Leverages AI to analyze and standardize data
- + Creates network effects

770,000+

~780

~330

GENOMIC PROFILES

ANALYZED¹

HOSPITALS, LABS & BIOPHARMA CUSTOMERS<sup>1</sup>

SUPPORTED NGS TEST KITS<sup>1</sup>

Designed to be
HIPAA and GDPR compliant

Designed to be Safe & Secure

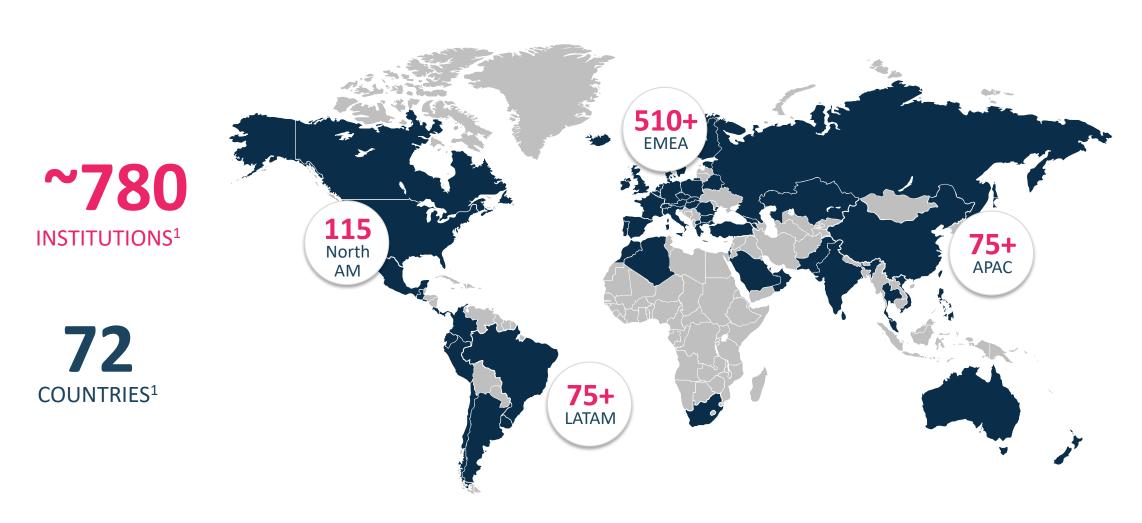
Technology agnostic

. As of June 30, 2021



# **Global Impact**

### World's largest network of hospitals for clinical genomics





### **SOPHiA Platform is Adaptable**

To different and emerging clinically relevant data modalities



#### **SOPHiA Platform**

Technology Agnostic

Machine Learning

Pattern Recognition

Predictive Models

#### Modalities Today



Genomics NGS Data (2014)



Radiomics CT/MRI/PET Data (2019)



Clinical Trials BioPharma Data (2019)



Clinical and EMR Data

#### **Future Modalities**

- Proteomics
- Digital Pathology
- Spatial Genomics
- Metabolomics

( ) = year launched









### Our vision to generate novel multimodal insights through a global network of connected hospitals to drive better patient outcomes

A partnership intended to facilitate clinical trial precision and efficiency and make it easier and faster for clinicians to provide the integrated insights they need to stratify, treat and care for their patients more effectively



combined with



Powered By Edison





#### **Cloud-Based Platform**

Standardize, compute and analyze multimodal health data across hospitals and labs



#### Cloud & On-Prem Analytics

Advanced visualization of radiomic data and the versatility of the Edison platform

#### The Key Enabler

Precision health partnership enabling deeper insights and better patient outcomes









#### **Collaboration Goals**

- Address the needs of different stakeholders in both the clinical and biopharma segments
- Build a collective intelligence through knowledge sharing
  - Combine multimodal data across instruments and across sites
  - Deploy Al-powered analytics as CDx and CDS to standardize and analyze multimodal health data
  - Ensure strict adherence to data privacy and information **security** rules
  - Establish a global network of hospitals connected through the cloud for knowledge building and app deployment



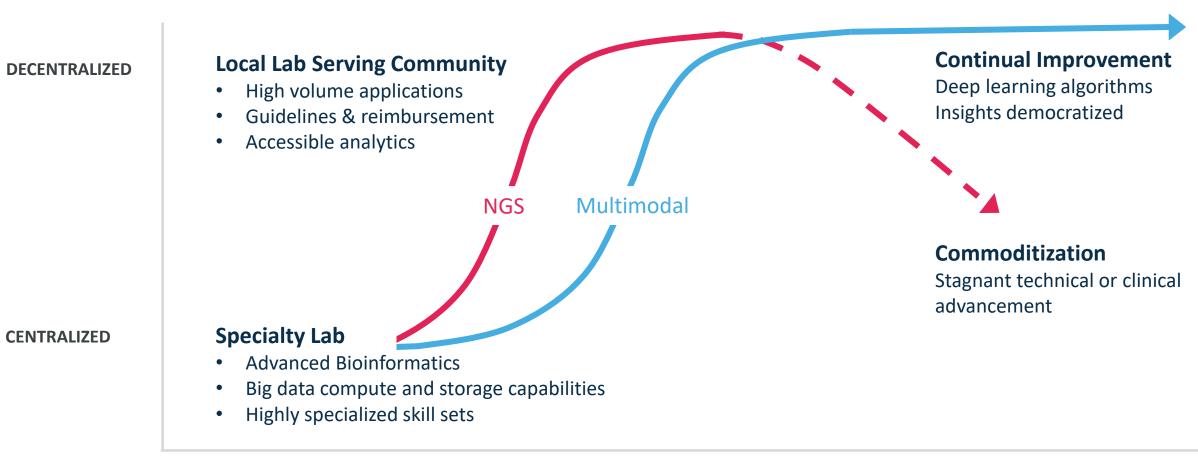
The integration of genomics-based artificial intelligence into oncology workflow solutions would be a major breakthrough for integrated cancer medicine and for future clinical research, which increasingly depend on the ability to select those patients most likely to respond to new therapies

> Jan Makela President & CEO, Imaging at GE Healthcare



### **Volume Expected to Drive Tipping Point from Centralized to Decentralized**

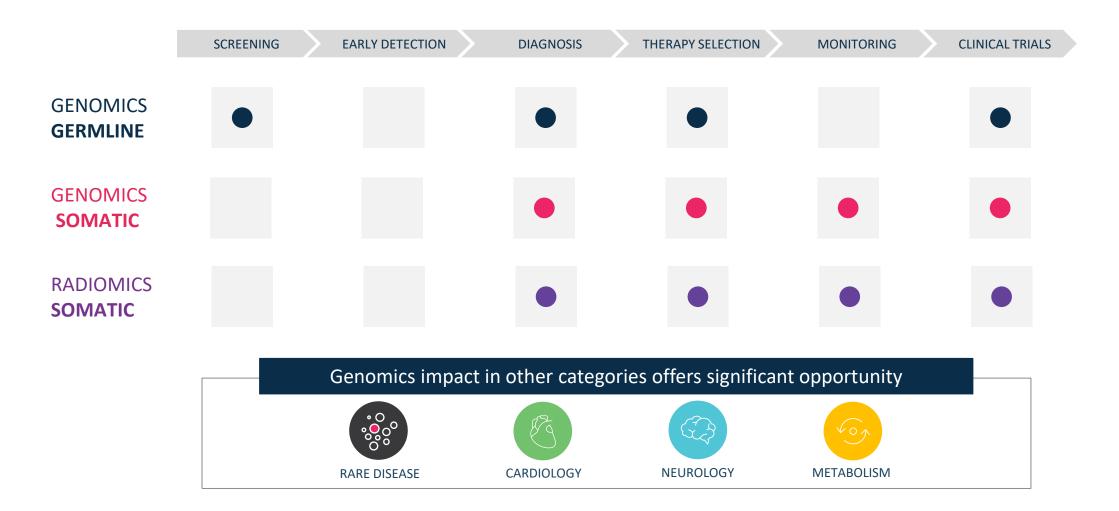
SOPHiA Platform enables labs to serve community with advanced analytics



LOW EFFICIENCY HIGH EFFICIENCY

### **Current Applications Span the Oncology Continuum of Care**

With opportunity to impact additional disease categories



## **SOPHiA** Has a Unique Position in Healthcare Ecosystem

Allowing for broad partnerships



#### **SOPHiA Cloud-Based Platform**

Generates high quality data insights



## Upload raw digital health data

Genomics, Radiomics, Clinical trials data, Clinical data, EMR



Access anonymized statistical data insights



**SOPHiA Community** 



Patients benefit from better care through data-driven medicine



## **SOPHiA's Offerings Address an Underpenetrated**

\$35 billion market opportunity in 2020

By application	Clinical Market \$21bn							Biopharma Market \$14bn				
By disease area	Oncology \$20.5bn			Rare Diseases \$0.5bn	Oncology \$14bn							
By segment	Screening	Early Detection	Diagnosis	Therapy Selection	Monitoring	Diagnosis	Clinical Trials	Insights & Awareness	CDx			
Global	\$7bn	\$8bn	\$2bn	\$1bn	\$2.5bn	\$0.5bn	\$4bn	\$9bn	\$1bn			
J.S.	\$2bn	\$3.5bn	\$0.5bn	\$0.5bn	\$1.2bn	\$0.2bn	n.a.	\$6.5bn	n.a.			
Global (U.S.) patients	45mm (11mm) at risk of inherited cancer	<b>147mm</b> (50mm) ages 50-79	5mm (900k) newly diagnosed cancer patients	2mm (900k) metastatic patients	20mm (9mm) metastatic patients and survivors	3.3mm (900k) new-borns	400k enrolled in 4,000+ oncology clinical programs	1.4mm (900k) metastatic patients	n.a.			

Over time, our platform could enable meaningful TAM expansion through new disease areas / modalities

# **SOPHiA Platform Applications Currently in the Market**

#### **Clinical Applications**

#### SOPHIA DDM™

Approximately ~330 applications for analyzing genomic data, empowering customers to build their own precision medicine operations

#### Alamut™

Stand-alone genomics analysis software that allows customers deeper and more informed genomic data interpretation

#### **BioPharma Applications**

#### **SOPHIA Trial Match™**

Place "molecular alerts" in SOPHiA platform to accelerate biomarkerdefined patient enrollment into clinical trials

#### **SOPHiA** Insights™

Leverage SOPHiA platform dataset and multimodal AI analytics capabilities to generate insights pre- and post-approval of a drug

#### **SOPHIA CDx™**

Leverage SOPHiA's capabilities to develop variant detection and identification algorithms to support companion diagnostics programs

#### **SOPHiA Awareness™**

Provide real-world insights on NGS testing to support BioPharma customers' market-shaping and commercial strategies

ONCOLOGY • RARE DISEASE • CARDIOLOGY • NEUROLOGY • METABOLISM

### **Cutting Edge Technologies**

### Exceptional analytical performance

#### 18 PATENTED TECHNOLOGIES

Leveraging 3 Core Proprietary Algorithmic Technologies







Accurate SNP and INDEL detection

Superior CNV resolution

	Somatic Oncology <sup>1</sup>	Germline Oncology <sup>2</sup>	Rare Diseases <sup>3</sup>	Cardiology <sup>4</sup>
SENSITIVITY	98.77%	100.00%	98.93%	100.00%
SPECIFICITY	100.00%	99.99%	99.99%	99.99%
ACCURACY	99.97%	99.99%	99.99%	99.99%
PRECISION	100.00%	99.86%	99.41%	99.62%

<sup>..</sup> Results of the CE-IVD study based on our Solid Tumor Solution (STS) that included data from 6 different sequencing centers and a total of 155 clinical and commercial FFPE samples in which 192 confirmed variants were used as the standard.

<sup>4.</sup> Results based on two similar studies that included data from 2 different sequencing centers and a total of 113 clinical and commercial samples in which 833 confirmed variants were used as the standard.



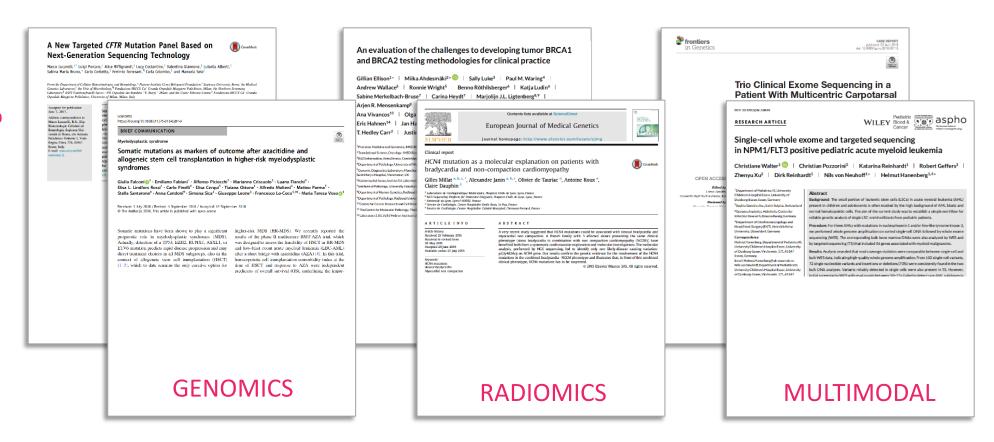
<sup>2.</sup> Results of the CE-IVD study based on our Hereditary Cancer Solution (HCS) that included data from 7 different sequencing centers and a total of 159 clinical and commercial samples in which 1252 confirmed variants were used as the standard.

Results based on the clinical exome analysis of the Ashkenazim trio (mother, father and son's DNA) from the Genome In a Bottle consortium that included data from 2 different sequencing centers and a total of 9 samples (including replicates) in which an average of 6241.2 confirmed variants per sample were used as the standard.

### **Robust Body of Evidence**

### Improving life science research

250+
PEER REVIEWED PUBLICATIONS<sup>1</sup>







### Multimodal Approach to Non-Small Cell Lung Cancer

#### Predicting response to immunotherapy

#### **CONTEXT**

# POPULATION STUDY

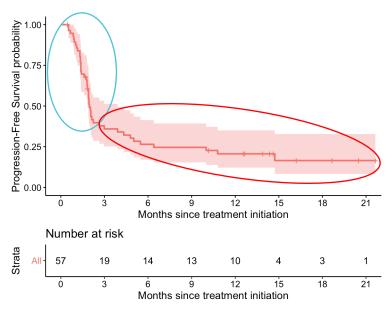
- Retrospective analysis of 57 patients treated for NSCLC using nivolumab in R/R setting
- 3+ previous lines of therapy

#### **OBJECTIVE**

Identify predictive markers of IO response based on multiple sources of data (clinical, genomics, biological and imaging) through machine learning analysis

For Research Use Only. Not for Diagnostic Procedures

# Two groups of patients - fast relapse and slow relapse



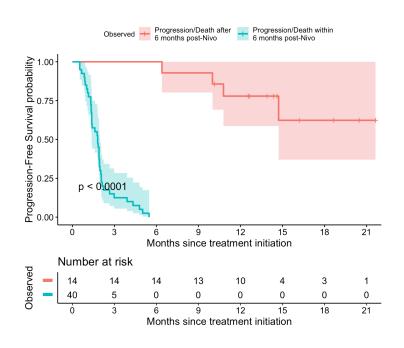
PFS Kaplan-Meier curves show there are two groups of patients responding to the IO therapy

# **Machine Learning Models Predict Response**

Using baseline data and can help identify markets that are predictive of response

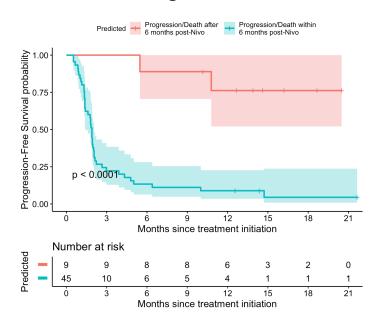
#### **PFS Curves Observed**

Stratification with respect to PFS>6 months



#### **PFS Curves Predicted**

Applying algorithm on multimodal data available at diagnosis



#### **Progression at First Evaluation:**

(6 patients excluded because of missing data)

- Sensitivity: 27/32 (84%)
   (27 progressions well predicted)
- Specificity: 13/19 (68%)
   (13 partial responses well predicted)

#### PFS <> 6 Months:

(3 patients excluded because of missing data)

- Sensitivity: 39/40 (98%)
   (39 PFS < 6 months well predicted)</li>
- Specificity: 8/14 (57%)
   (8 PFS > 6 months well predicted)

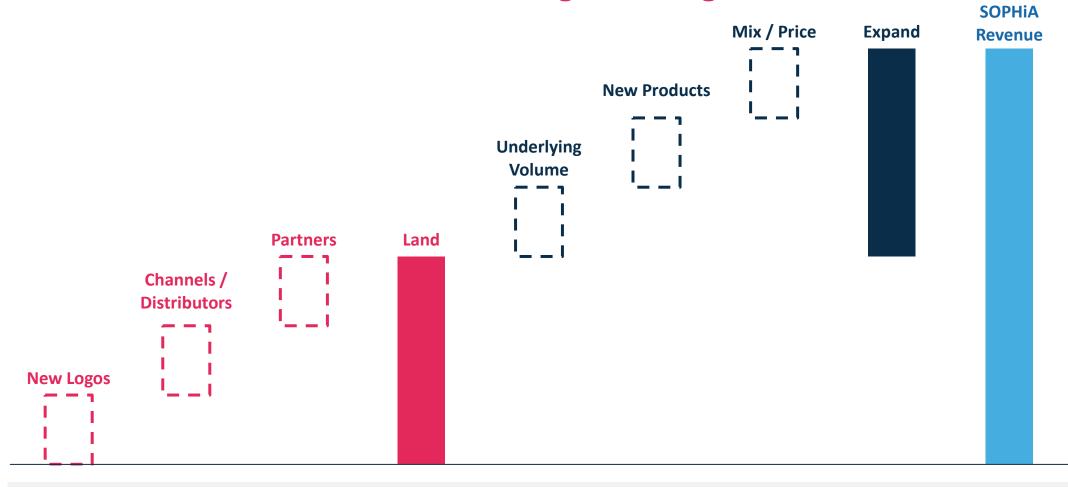
Confirming results in a large-scale real-world observational study recruiting 4,000 patients in 1L NSCLC

For Research Use Only. Not for Diagnostic Procedures



## **Our Land and Expand Revenue Build**

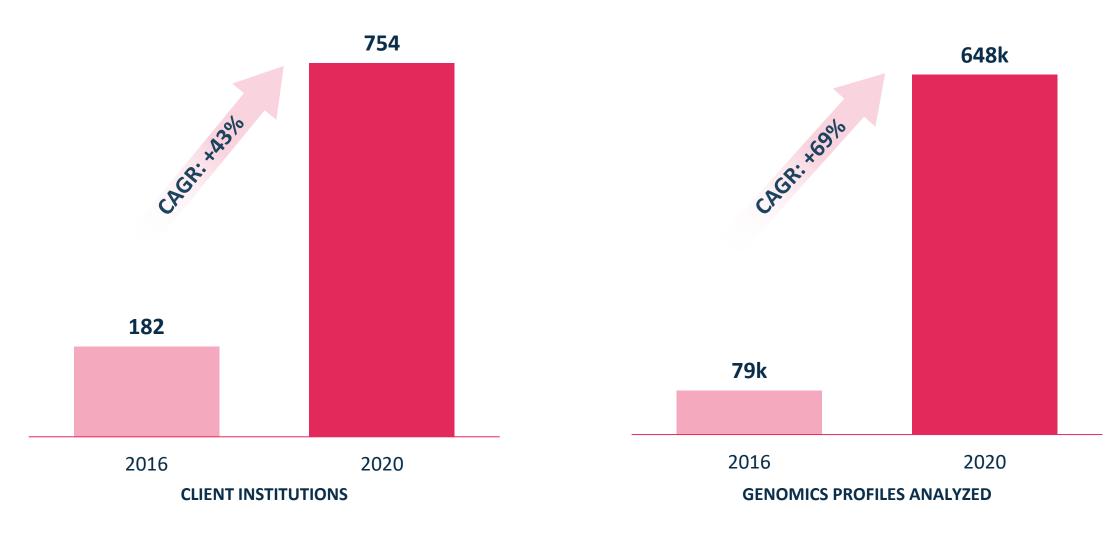
Is a hallmark of our growth algorithm



SOPHiA's steady growth is fueled by a balanced mix of drivers, de-risking reliance on a singular strategy

### **A Leading Position**

By number of client institutions and genomics profiles analyzed



### **Steady Expansion**

### Fueled by balanced volume growth + NPI + price/mix

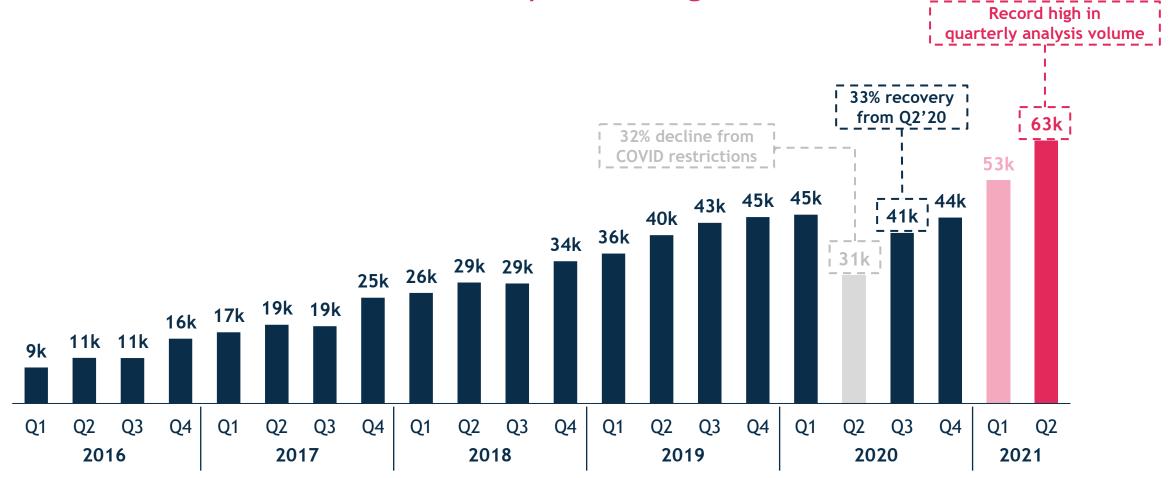
Platform Analysis Volume by Cohort								
Cohort	Year 1	Year 2	Year 3	Year 4	Year 5	CAGR		
2015	29,586 100%	36,473 123%	47,926 162%	55,874 189%	56,921 192%	18%		
2016	23,291 100%	25,205 108%	29,864 128%	33,499 144%		13%		
2017	22,924 100%	28,689 125%	33,626 147%			21%		
2018	19,602 100%	24,322 124%				24%		
2019	20,476 100%					NA		

Our customers are assigned to a particular cohort based on the year in which they first accessed our SOPHiA platform through the dry lab or bundle access model. We track and aggregate analysis volume generated through our platform grouped by customer cohorts in 12-month intervals from the respective customer onboard date. "Customer" refers to any customer who accesses our SOPHiA platform through the dry lab and bundle access models. We exclude from this definition any customers accessing our SOPHiA platform using the integrated business model because they tend to use our platform in an ad hoc manner compared to our dry lab and bundle access customers who typically do so in a recurring fashion, generate an immaterial portion of our revenue and analysis volume and constitute a small part of our customer base. We also exclude from this definition customers who only use Alamut through our SOPHiA platform.



# **Platform Analysis Volume Growth**

Has been steadily increasing ex-COVID



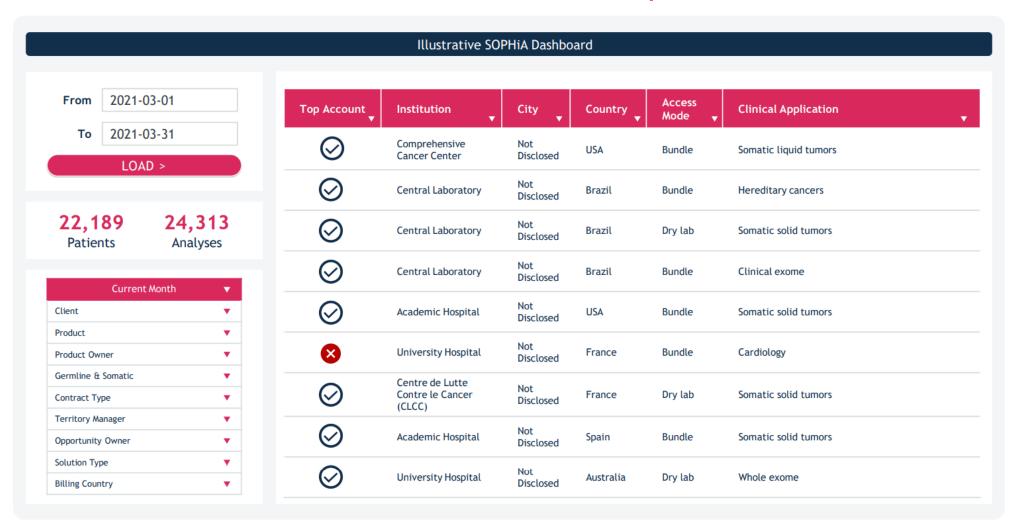
Analysis volumes fully recovered from COVID shock by YE 2020 and resumed healthy expansion in 1H'21

Note: Includes chargeable dry lab and bundle access analyses.

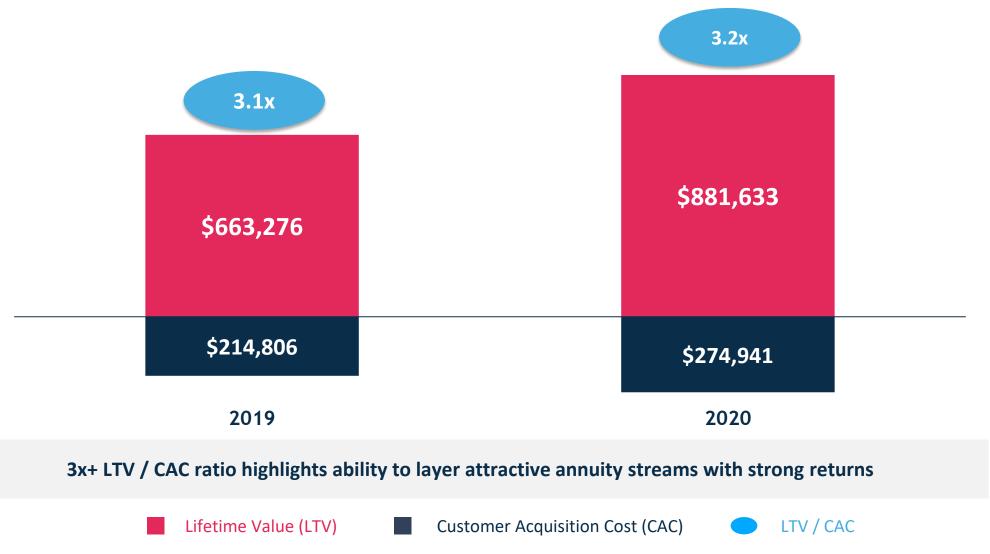


## **Real-Time Visibility**

### Into the healthcare ecosystem



#### **Scalable Business Model**



#### **Historical Financial Performance**

\$ millions	2019	2020	Q2 2021	1H 2021
Revenue (Y-O-Y Growth)	\$25.4 	\$28.4 <i>12%</i>	\$10.2 72%	\$19.2 <i>43%</i>
Gross Profit (Gross Margin)	\$17.8 <i>(70%)</i>	\$17.7 <sup>(1)</sup> (62%)	\$6.2 (61%)	\$11.8 (62%)
Adj. Gross Profit <sup>(2)</sup> (Adj. Gross Margin)			\$6.3 <i>(62%)</i>	\$12.0 (63%)
Operating Loss	(\$32.3)	(\$37.4)	(\$15.9)	(\$30.0)
Adjusted Operating Loss <sup>(3)</sup>			(\$14.3)	(\$27.0)
Net Cash Used in Operating Activities	(\$31.7)	(\$31.7)	(\$16.2)	(\$26.3)

#### Despite COVID headwinds, SOPHiA exhibited growth in 2020, and 2021 is on track to be a record year

#### Notes:

- (1) Includes the impact of a one-time write-off of inventory associated with the loss of a key customer.
- (2) Adjusted gross profit excludes the amortization of capitalized research and development expenses. Adjusted gross profit and adjusted gross margin are non-IFRS measures. For reconciliation of IFRS measures, see Appendix.



<sup>(3)</sup> Adjusted operating loss excludes the adjustments made to calculate adjusted gross profit, amortization of intangible assets, share-based compensation expense, non-cash portion of pension expenses paid in excess of actual contributions to match the actuarial expense, and non-recurring expenses related to the IPO. Adjusted operating loss is a non-IFRS measure. For reconciliation of IFRS measures, see Appendix.

### **Industry-Leading Experts**



**Bram Goorden**Chief Operating Officer





**Ross Muken** Chief Financial Officer





**Lara Hashimoto**Chief Business Officer









Jurgi Camblong
CEO - Founder

SOPHIA
GENETICS\*\*



Philippe Menu Chief Medical Officer McKinsey &Company



Zhenyu Xu
Chief Scientific Officer

SOPHIA
GENETICS\*\*



Daan Van Well General Counsel



Ahold Delhaize



Manuela Valente
Chief People Officer



Medtronic

#### **Board of Directors**

Jurgi Camblong CEO – Founder



**Troy Cox**Chairman of the Board



Tomer Berkovitz
Director



Kathy Hibbs Director



Didier Hirsch
Director



Vincent Ossipow Director



Milton Silva-Craig
Director



- Over 460 employees across 27 countries
- 45% of employees in R&D
- 30% of employees have PhDs

#### **SOPHIA Platform**

Bringing value to patients

+ Network

One of the largest global network of connected hospitals with over **780 institutions** connected across **72 countries** 

+ Technology

Accuracy recognized and valued by customers who pay on a per usage basis

+ Scalability

**50 terabytes of data** generated per month for genomics, radiomics and multimodal data across a broad range of disease areas

# Appendix



# Reconciliation of IFRS to Adjusted Gross Profit and Gross Profit Margin (Amounts in USD thousands, except percentages)

	Three months ended June 30,			Six months ended June 30,				
		2021		2020		2021		2020
Revenue	\$	10,178	\$	5,916	\$	19,154	\$	13,397
Cost of revenue		(3,948)		(1,950)		(7,307)		(4,863)
Gross profit		6,230		3,966		11,847		8,534
Amortization of capitalized research and development expenses (1)		109		_		177		_
Adjusted Gross Profit	\$	6,339	\$	3,966	\$	12,024	\$	8,534
Gross profit margin		61%		67%		62%		64%
Amortization of capitalized research and development expenses (1)		1%		_		1%		_
Adjusted gross profit margin		62%		67%		63%		64%

#### Note

<sup>(1)</sup> 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.



# Reconciliation of IFRS to Adjusted Operating Loss (Amounts in USD thousands)

	Three months ended June 30,			Six months ended June			June 30,	
	2021		2020		2021			2020
Operating loss	\$	(15,924)	\$	(7,040)	\$	(29,978)	\$	(16,669)
Amortization of capitalized research and development costs (1)		109		_		177		_
Amortization of intangible assets (2)		161		142		313		263
Share-based compensation expense (3)		1,197		314		1,836		584
Non-cash pension expense (4)		158		204		335		428
Non-recurring IPO-related expenses (5)		_		_		323		_
Adjusted operating loss	\$	(14,299)	\$	(6,380)	\$	(26,994)	\$	(15,394)

#### Notes:

- (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) 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.
- (3) 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.
- (4) 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.
- (5) 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.



