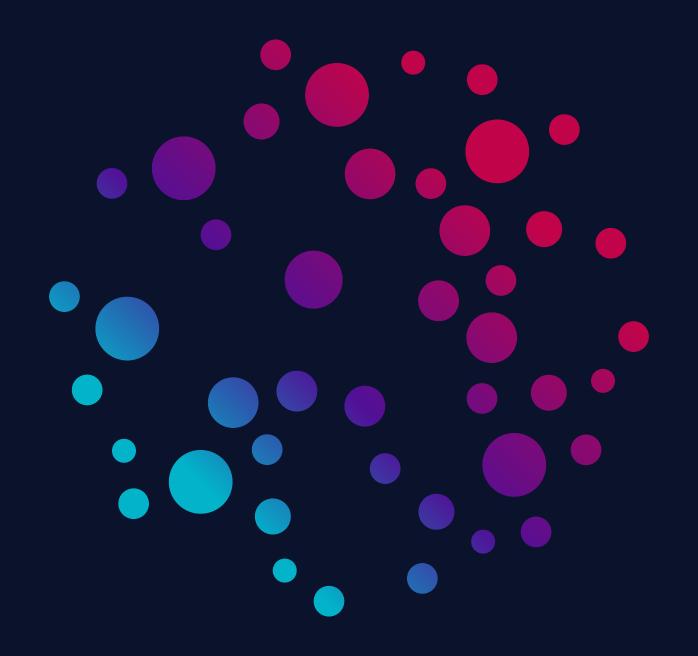


41<sup>st</sup> Annual J.P. Morgan Healthcare Conference

January 11, 2023

Brian McKelligon, CEO



### Disclaimer

#### **Cautionary Note Regarding Forward-Looking Statements**

This presentation includes express and implied "forward-looking statements." In some cases, you can identify forward-looking statements by terms such as " anticipate," "estimate," "expect," intend," may," might," plan," project," will," would," should," could," can," predict," potential," or the negative of these terms, and similar expressions intended to identify forward-looking statements However, not all forward-looking statements contain these identifying words. These statements may relate to our strategic plans or objectives, revenues or earnings projections, or other financial items. By their nature, these statements are subject to numerous uncertainties, including factors beyond our control, that could cause actual results, performance or achievement to differ materially and adversely from those anticipated or implied in the statements You should not rely upon forward-looking statements as predictions of future events.

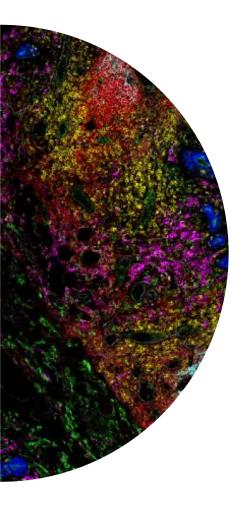
Although our management believes that the expectations reflected in our statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances described in the forward-looking statements will be achieved or occur. Moreover, neither we, nor any other person, assumes responsibility for the accuracy and completeness of these statements Recipients are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date such statements are made and should not be construed as statements of fact. We undertake no obligation to update these forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of unanticipated events.

#### **Market Industry Data**

Projections, estimates, industry data and information contained in this presentation, including the Company's general expectations and market position and market opportunity, are based on information from third-party sources and management estimates Although the Company believes that its third-party sources are reliable, the Company cannot guarantee the accuracy or completeness of its sources. The Company's estimates are derived from third-party sources, publicly available information, the Company's knowledge of its industry and assumptions based on such information and knowledge. The Company's estimates have not been verified by any independent source All of the projections, estimates, market data and industry information used in this presentation involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such information. In addition, projections, estimates and assumptions relating to the Company's and its industry's future performance are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including, but not limited to, those described above, that could cause future performance to differ materially from the Company's expressed projections, estimates and assumptions or those provided by third parties.

### Akoya is Leading the Spatial Biology Revolution

Transforming Discovery to Diagnostics





### Best-in-class platform requirements

Fastest, multiomic, single-cell imaging with subcellular resolution on whole slide



### Complete end-to-end solutions

Instruments, reagents, software & services



Established market leader with largest installed base 860+ instruments installed worldwide\*

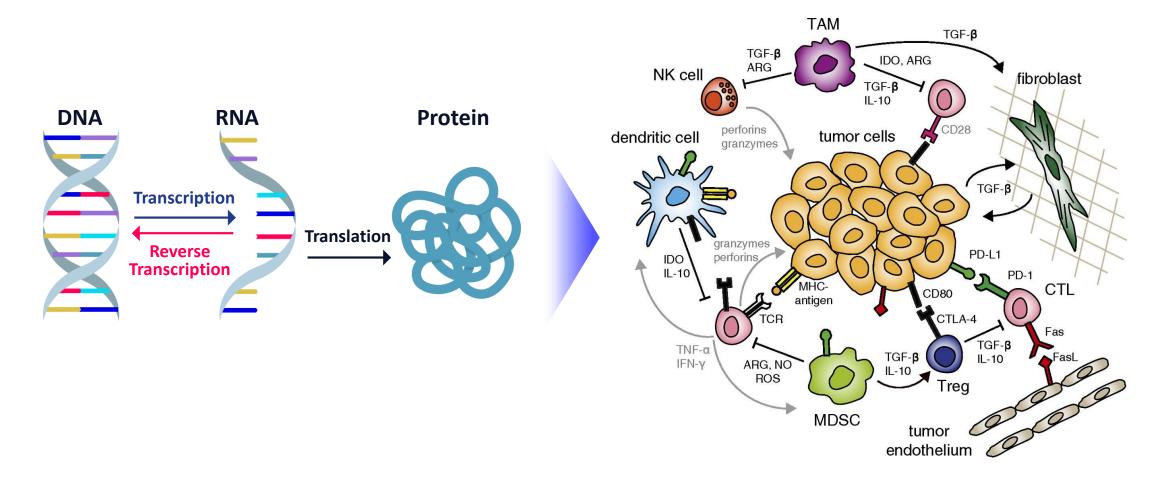


Greatest number of high-impact publications

690+ total publications\*

# Driving Towards a Deeper Understanding of Biology

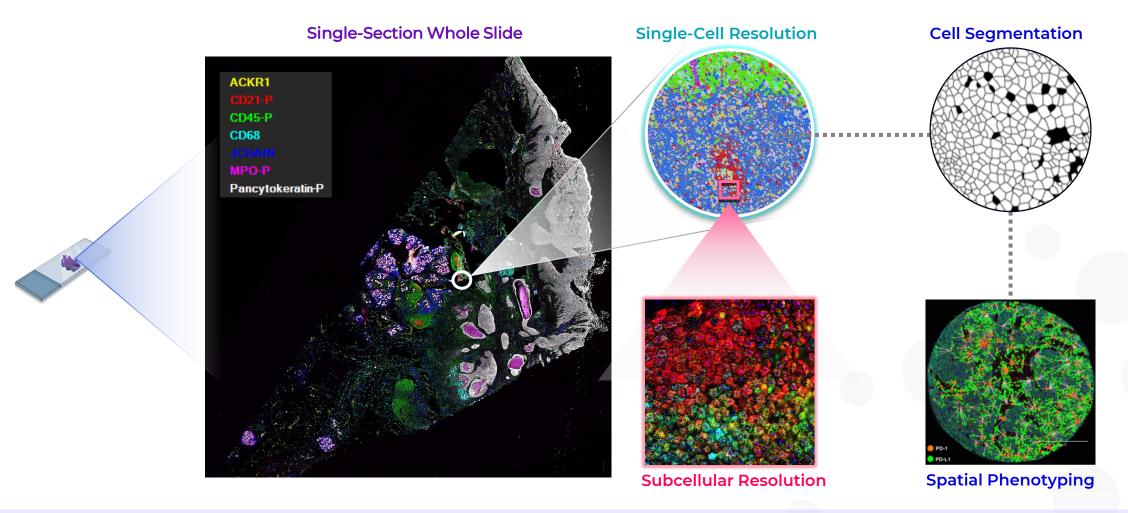
Advancing Next Generation Tissue Analysis



Understanding disease progression & response to therapy requires **UNBIASED** mapping of tissue architecture

# Akoya is Transforming Tissue Analysis

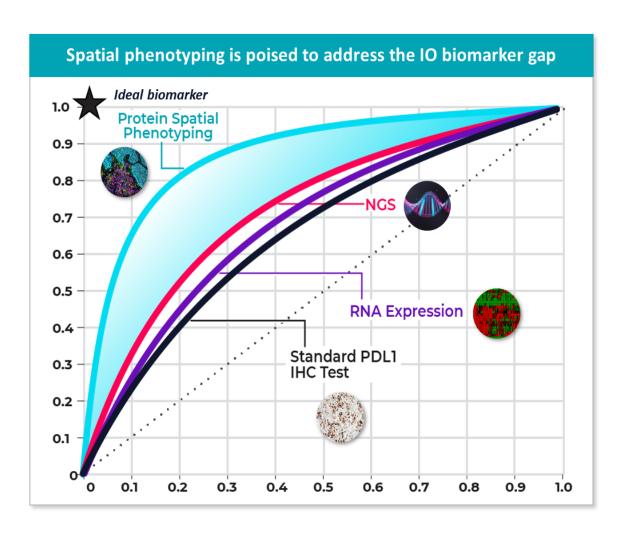
Mapping Whole Tissue Unlocks an Understanding of Disease Progression & Response to Therapy



The **LOCATION** of key cell types, proteins & transcripts drives tumor activity & immune response

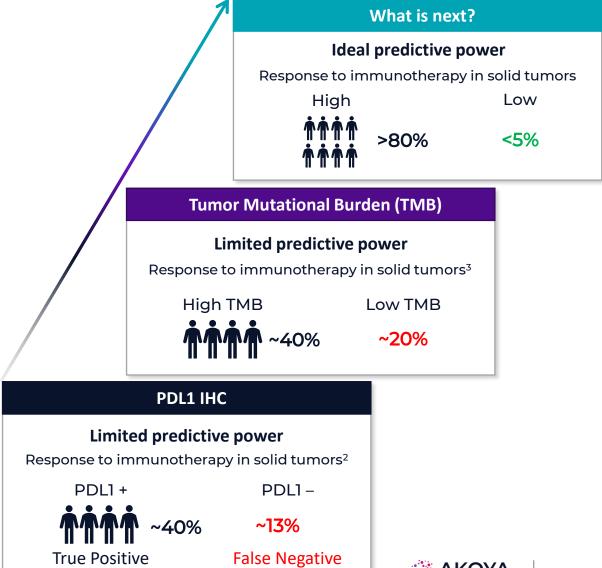
### Meeting an Unmet Medical Need in Immunotherapy

JAMA Publication Highlights Spatial Phenotyping as a Superior Approach<sup>1</sup>





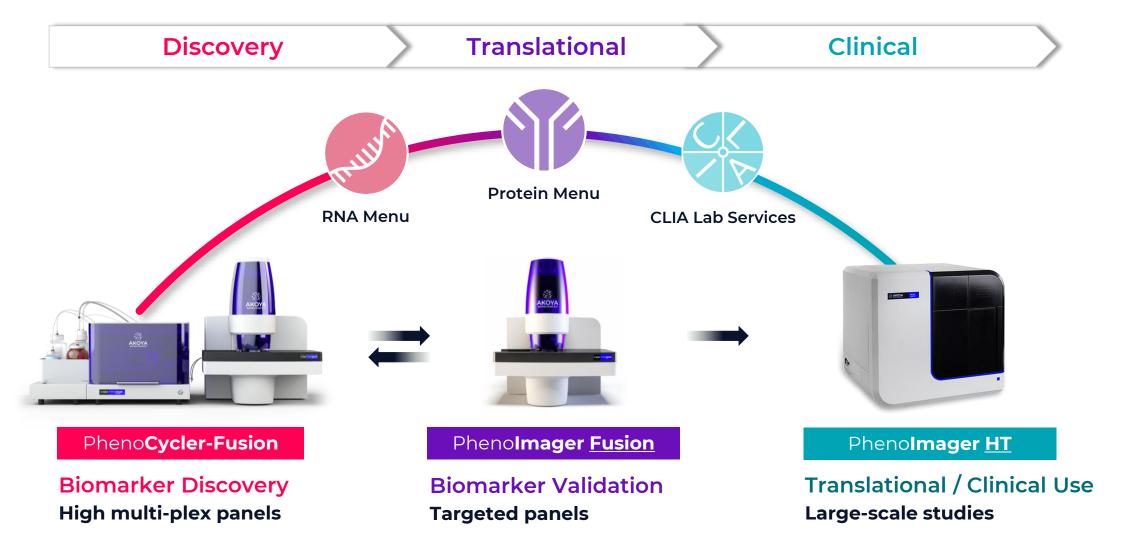
<sup>&</sup>lt;sup>2</sup> Diags and Hsueh Biomarker Research (2017) 5:12;



<sup>&</sup>lt;sup>3</sup> Hendriks LE, et.al.. Transl Lung Cancer Res. 2018;7(6):647-660

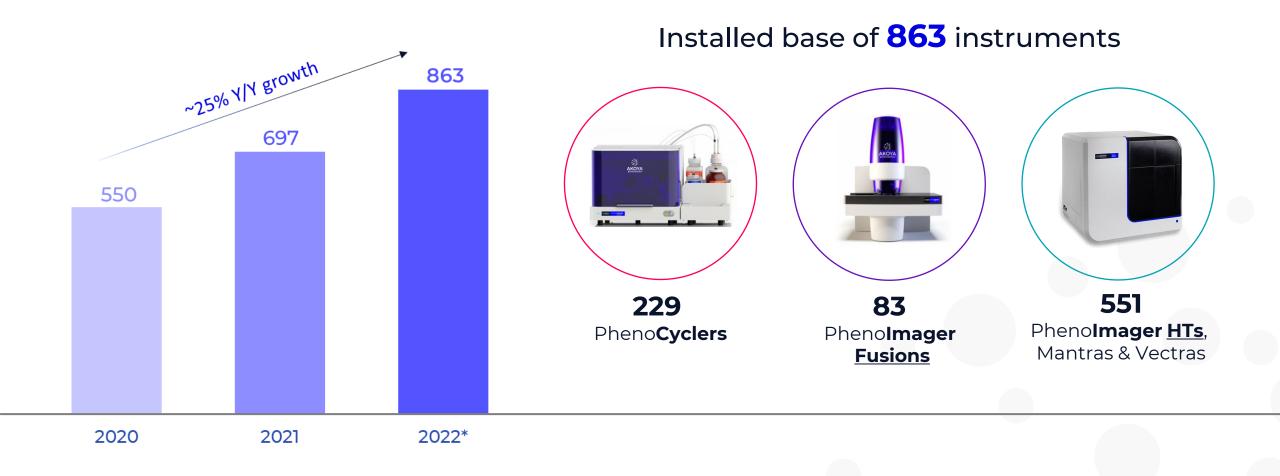
### Akoya Enables Complete End-to-End Spatial Solutions

Owning the Spatial Biomarker Journey – Discover, Validate & Deploy



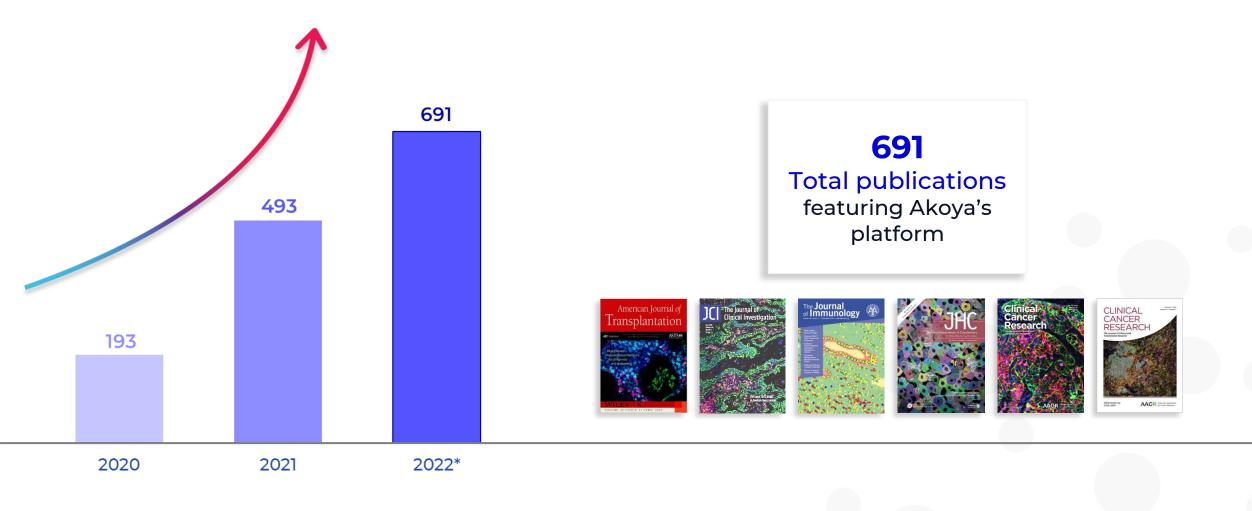
### Akoya's Largest & Rapidly Growing Installed Base

Adoption Across Discovery, Translational & Clinical Markets



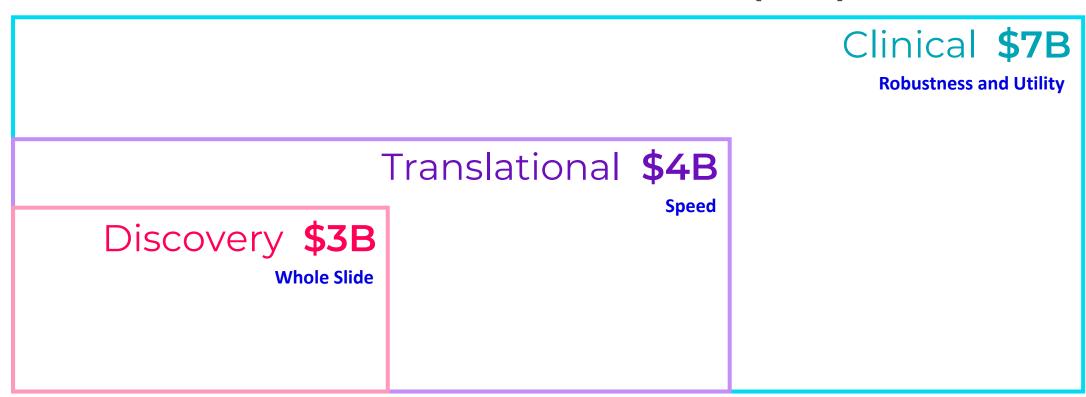
# Akoya's Accelerating & Market Leading Publication Volume

Spatial Biology is Driving Major Discoveries Across Multiple Therapeutic Areas



# Immediate Opportunity in Discovery & Translational Markets With Clinical Rapidly Emerging

### Estimated Total Addressable Market (TAM) ~ \$14B

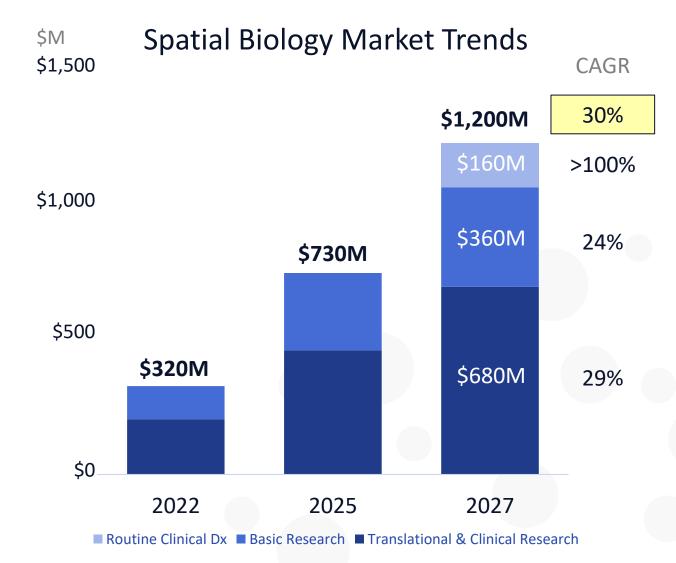


Akoya is meeting customer & market segment requirements to drive market expansion

### Drivers of Spatial Biology Market Growth Over Next 5 Years

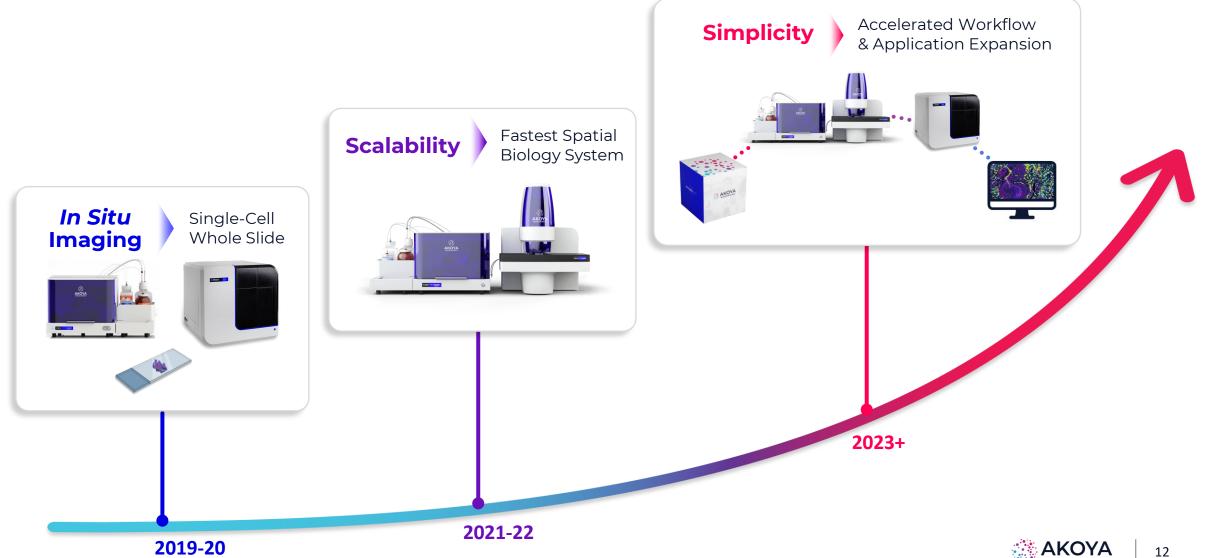
DeciBio Projects < 10% of TAM to be Realized by 2027\*

- Spatial biology market will grow 30% annually in the next 5 years
- Translational & clinical research to make up the largest market segment
- Routine clinical dx expected to be the fastest growing market segment
- Multi-plex immunofluorescence (mIF) a key technology growth driver



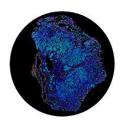
# Setting the Standard in Spatial Biology

Akoya Consistently Leads in Meeting Spatial Biology Market Requirements



### Akoya's Spatial Biology Workflow

Continuous Improvements in Simplicity & Scalability Drive Platform Utilization and Pull Through







#### **PROBE AND STAIN**

#### **IMAGE**

#### **ANALYZE**

#### **Rapid Menu Expansion**

- Ready-to-use panels & increasing plex
- New applications
- Consistent chemistries

#### **Improved Workflows**

- Continuous speed improvements
- Workflow simplification
- Consistent imaging methods

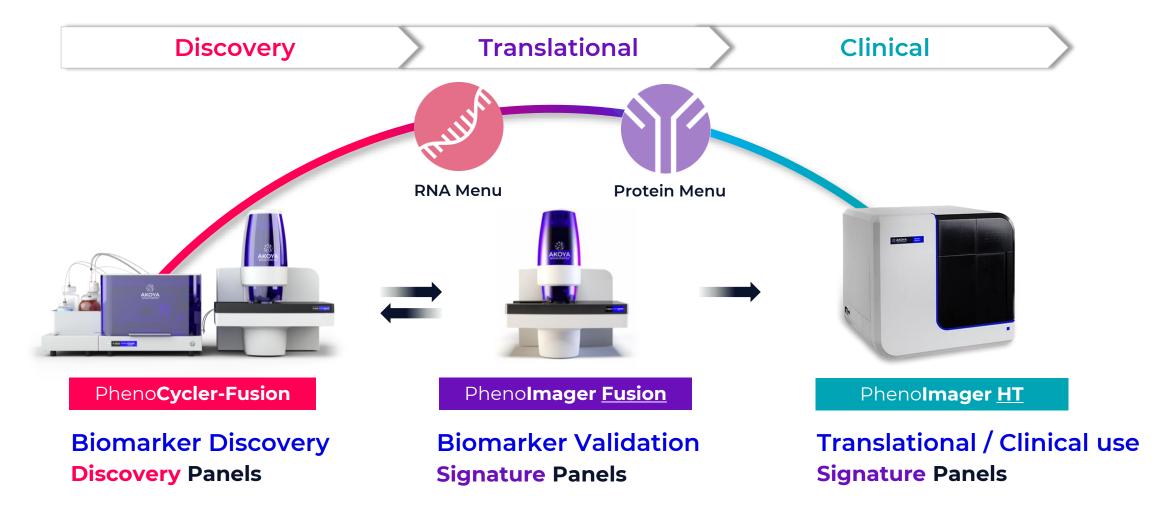
#### **Flexible Data Analysis**

- Proprietary data compression
- Solutions serve every user need
- Consistent image analysis methods



### Menu Expansion – Discovery to Validation to Clinical

New Panel-Based Chemistry Simplifies, Accelerates & Harmonizes the Workflow



# Enabling RNAscope™ on PhenoCycler-Fusion

Extending Our RNA Solution Portfolio Through a Strategic Partnership with ACD



The leader in single-cell spatial proteomics with whole-slide imaging at single-cell resolution



The gold standard in low to mid-plex spatial in situ assays based on proven RNAscope™ technology with > 5,800 publications

RNAScope™ complements Akoya's solution & empowers our customers with:

- A direct RNA detection technology on PhenoCycler-Fusion
- Targeted RNA applications or validation studies
- Automated 12-plex RNA configuration
- Sample-to-data within 24 hours

Commercial rollout 1H '23



### Introducing Pheno**Code**™ Panels

Delivering a Suite of Discovery & Translational Solutions Focused on Key Biological Questions

**Protein** 

RNA

### **Discovery**

#### **PhenoCode**

**Discovery Panels** 

- High-plex RNA & protein panels
- Focus on oncology, inflammatory disease & neurobiology markers
- Ready-to-use panels & modules
- High-plex panels enable unbiased & comprehensive discovery experiments
- Increased pull through & accelerated time to answer



#### **Translational**

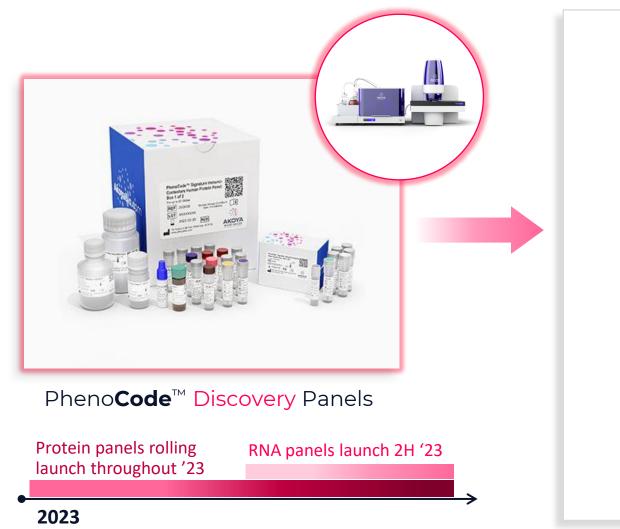
#### **PhenoCode**

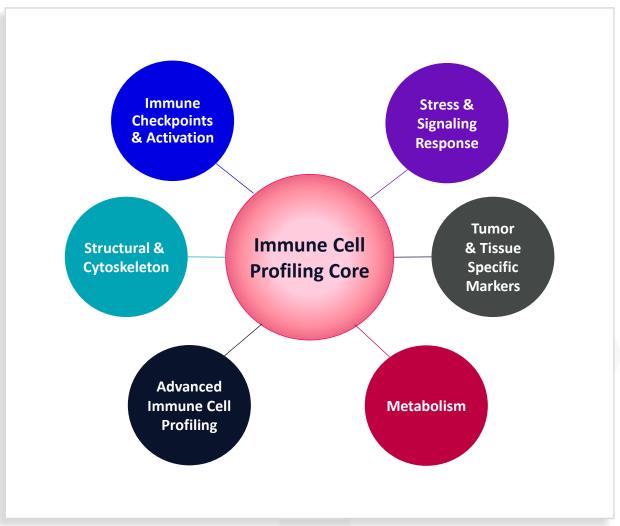
**Signature Panels** 

- Low to mid-plex targeted protein panels
- Core immuno-oncology markers
- Complete assay solution, automation ready, with ability to customize
- Reduction in time to design & validate panels by 3x
- Increased pull through & accelerated time to answer

### PhenoCode<sup>TM</sup> Discovery Panels for Comprehensive Coverage

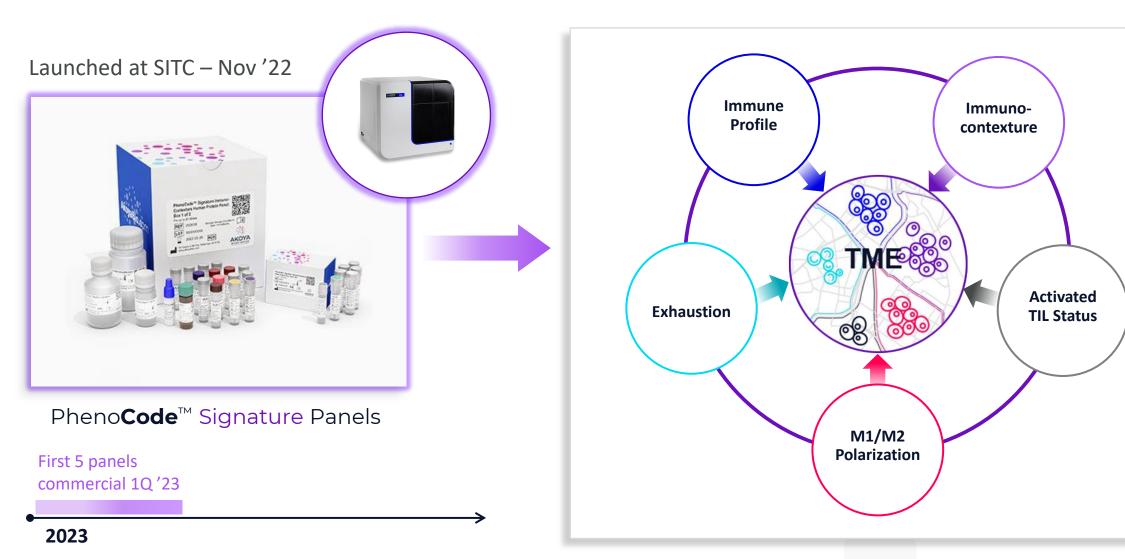
High-Plex Panels for Biomarker Discoveries Across Multiple Research Verticals





# Pheno**Code™** Signature Panels for Immuno-Oncology

5 Customizable Panels Focused on Key Clinical Questions



### Pheno**Cycler-Fusion** Journey

Enabling Higher Plex, Menu Expansion, Faster Workflows & Scaled Experiments

### Pheno**Cycler-Fusion 2.0** • 100+ plex & panel-based • 20+ samples / week RNA and protein Pheno**Cycler-Fusion 1.0** • 75 plex • 10+ samples / week Real time data compression Pheno**Cycler** A@D **PhenoCode** 50 plex 2 samples / week Required 3<sup>rd</sup> party microscope 2023

2021-22

Multi-Slide Automation Field upgrades 1H '23

ACD's RNAscope™ Rollout 1H '23

PhenoCode Discovery RNA Panels

Launch 2H'23

PhenoCode Discovery Protein Panels Throughout '23

### Phenolmager HT Journey

Translating Discoveries to the Clinic & Building the Foundations for Diagnostics

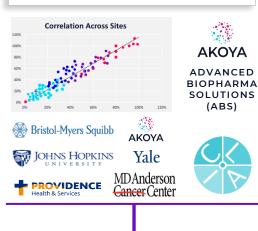
### **Core Requirements**

- 6+ plex customer designed
- 300 samples / week
- ISO & quality systems



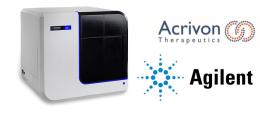
#### First Mover Advantage

- MITRE study published
- ABS launched
- CLIA certified



#### **Accelerating Adoption**

- 6+ plex ready-to-use
- Biopharma CDx partnerships
- Workflow ecosystem



**PhenoCode** 

2023

PhenoCode IO Signature Panels First 5 panels commercial rollout 1Q '23

Acrivon CDx Partnership Deliver progress on CDx

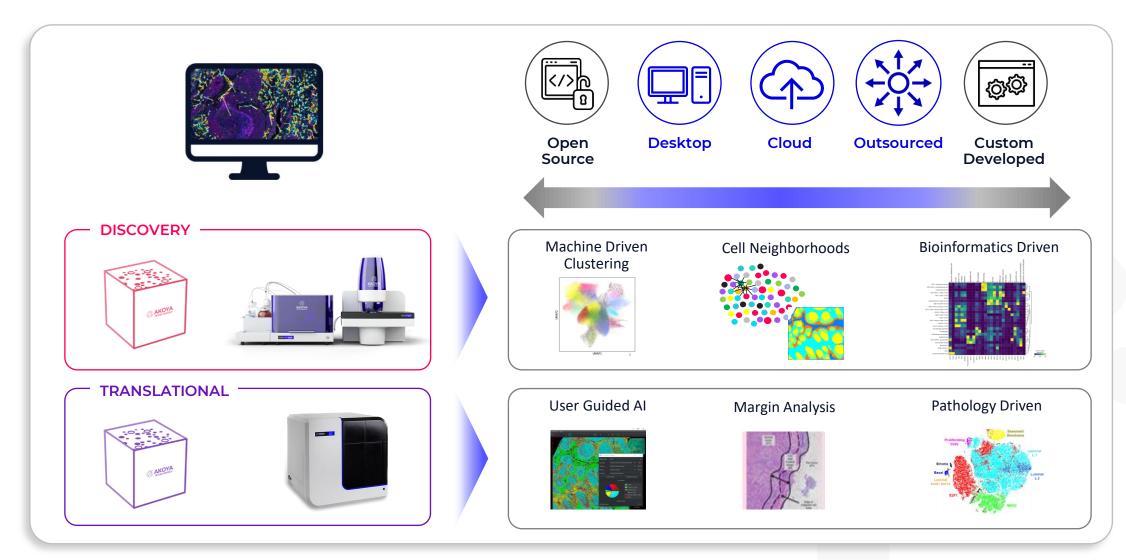
Agilent Partnership

Commercialize workflow



# Software Adoption Relies on Flexible Data Analysis

Choice of Analysis Method, Deployment & Workflow



### Simplified On-Instrument Image Processing & File Compression

Standardized & Compressed Files, Without Data Compromise, Allow for Flexible Data Transfer

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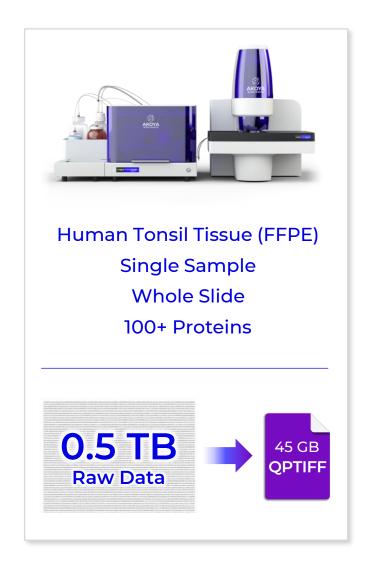


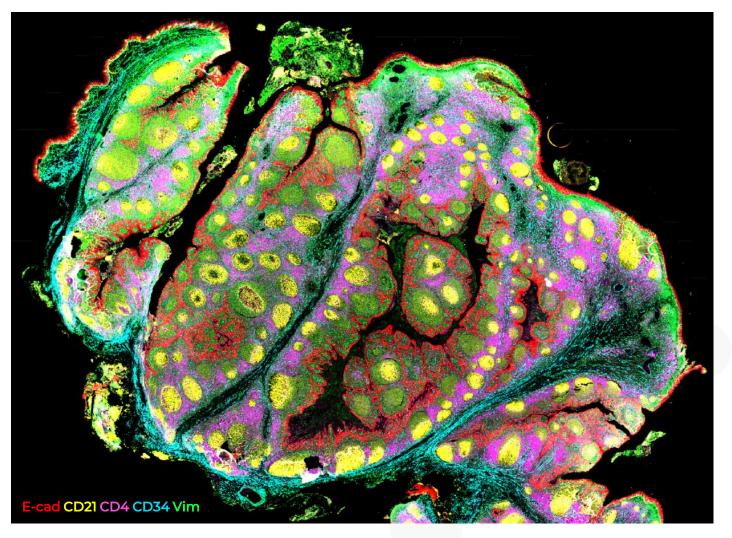
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Akoya's proprietary file compression algorithm

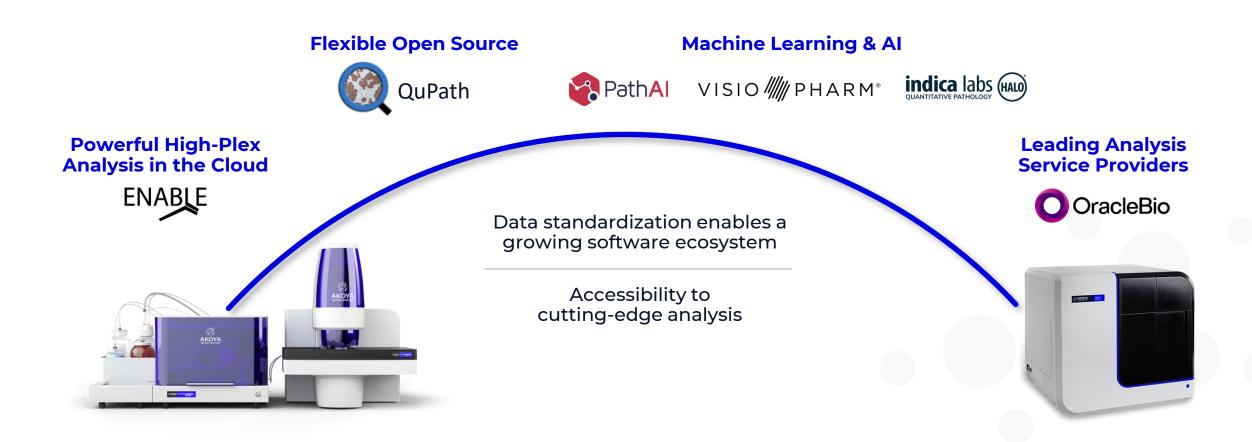
### Deep Spatial Phenotyping With Flexible Data Transfer

100+ Plex Protein Whole-Slide Dataset





### Data Analysis Ecosystem Across Akoya's Workflows



Software partnerships provide economical, flexible & COMPREHENSIVE data analysis solutions

# Evolving to Realize Our Clinical Aspirations



# OncoSignature® CDx - New Era of Precision Medicine

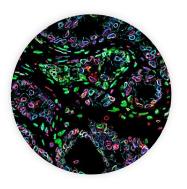
First-of-its-kind Spatial Signature CDx Assay to Identify Patients for a Targeted Oncology Agent















CDx assay developed on PhenoImager HT

OncoSignature® test, a spatial signature CDx assay

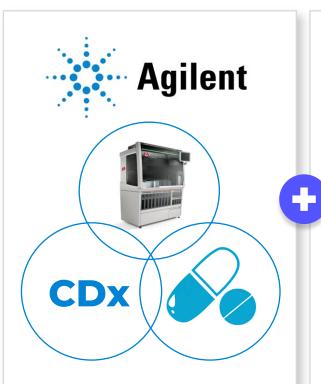
Patient screened using OncoSignature® test to identify responders to ACR-368

Pending FDA approval, results of OncoSignature® test used to assign therapy

Akoya & Acrivon will co-develop, validate & **EXCLUSIVELY** commercialize the OncoSignature® test

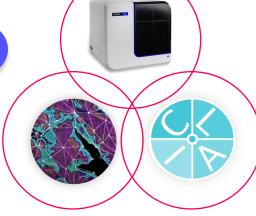
# Partnering to Accelerate Clinical Spatial Biology Adoption

End-to-End Commercial Workflow - Reagents, Staining, Imaging, Analysis & Services



- IVD approved workflow
- Established market leader in I/O CDx
- Strong network of pharma partners





- Industry leading multi-plex imager
- Translational and clinical multiplexing expertise
- CLIA lab capabilities

- Combined strength to catalyze deployment of multiplex tissue-based biomarkers for the benefit of biopharma and CROs to meet future diagnostic needs
- Singular workflow with products & services for development of mIHC & mIF assays

### Akoya's Strategic Priorities

Drive Workflow Improvements & Success in Translational Market Guides Clinical Success

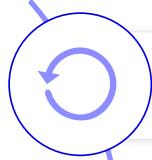




### Financial Overview

Q4 2022 Estimated Revenue Range: \$20.7 - 21.2 million, 28 - 30% y/y growth

FY 2022 Estimated Revenue Range: \$74.3 - 74.8 million, 35 - 36% y/y growth



### Recurring revenue model

Recurring reagent revenue from global installed base Expanding lab services with key biopharma partners



### Consistent growth profile

Ahead of consensus every quarter since IPO Increasing menu content, pull through & clinical partnerships



### Well-capitalized to drive growth with path to profitability

Driving growth across discovery, translational & clinical markets \$82 million of cash at the end of Q3 '22 with path to profitability by '25

# Catalyzing Discovery and Improving Patient Care



