



# ANSWERS

## Jefferies 2019 Global Healthcare Conference

Bonnie Anderson  
Chairman & Chief Executive Officer

June 6, 2019

# Forward-Looking Statements

This presentation contains statements that are not historical and that are based on our beliefs and assumptions and on information currently available to us. These statements constitute forward-looking statements within the meaning of the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are subject to known and unknown risks, uncertainties, assumptions, and other factors that could cause actual results to differ materially from our expectations.

Forward-looking statements can be identified by words such as: "anticipate," "intend," "plan," "expect," "believe," "should," "may," "will" and similar references to future periods. Examples of forward-looking statements include, among others, statements we make regarding our ability to achieve milestones under the collaboration agreement with Johnson & Johnson; our ability to achieve and maintain Medicare coverage for our tests; the benefits of our tests and the applicability of clinical results to actual outcomes; the size of our addressable market; the laws and regulations applicable to our business, including potential regulation by the Food and Drug Administration or other regulatory bodies; our ability to successfully achieve and maintain adoption of and reimbursement for our products; the amount by which use of our products are able to reduce invasive procedures and misdiagnosis, and reduce healthcare costs; the occurrence and outcomes of clinical studies; the timing and publication of study results; the applicability of clinical results to actual outcomes; the continued application of clinical guidelines to our products and their inclusion in such clinical practice guidelines; our ability to compete; our ability to obtain capital when needed; and other risks set forth in our filings with the Securities and Exchange Commission, including the risks set forth in our Quarterly Report on Form 10-Q for the quarter ended March 31, 2019. These forward-looking statements speak only as of the date hereof and Veracyte specifically disclaims any obligation to update these forward-looking statements.

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# A Genomics Leader Creating Value Through Innovation

FOUNDED WITH A MISSION TO IMPROVE DIAGNOSTIC ACCURACY  
**Expanding to advance early detection and inform treatment decisions**

**Comprehensive scientific approach** using whole-transcriptome sequencing coupled with machine learning to develop diagnostic tests that we believe can change clinical care

**Clinical evidence published in top-tier journals** to facilitate test adoption, coverage and reimbursement

**Market leader with first-to-market tests** in large, untapped clinical areas: thyroid cancer, lung cancer and idiopathic pulmonary fibrosis (IPF)

Robust pipeline including **non-invasive test for lung cancer** and **biopharma partnerships** to augment future growth

Experienced management team with **deep expertise** and **proven track record**

**Afirma**<sup>®</sup>

GENOMIC SEQUENCING CLASSIFIER

**Percepta**<sup>®</sup>

GENOMIC SEQUENCING CLASSIFIER

**Envisia**<sup>™</sup>

GENOMIC CLASSIFIER

# Execution Driving Momentum

## Strong Commercial Growth

Grew revenue and genomic test volume by 47% and 33%, respectively, in 1Q19 compared with 1Q18

- Afirma revenue grew by 23% in 1Q19 compared with 1Q18
- Percepta classifier volume increased 195% in 1Q19 compared with 1Q18
- Envisia had revenue for the first time in 1Q19

***Multi-product sales strategy a key driver of growth***

## Continued Reimbursement Success

Afirma, Percepta and Envisia classifiers all covered by Medicare

Achieved in-network status with nearly all major U.S. health plans as a service provider

## Strategic Collaborations Advancing Pipeline and Driving Value Creation

Strategic collaboration with Johnson & Johnson

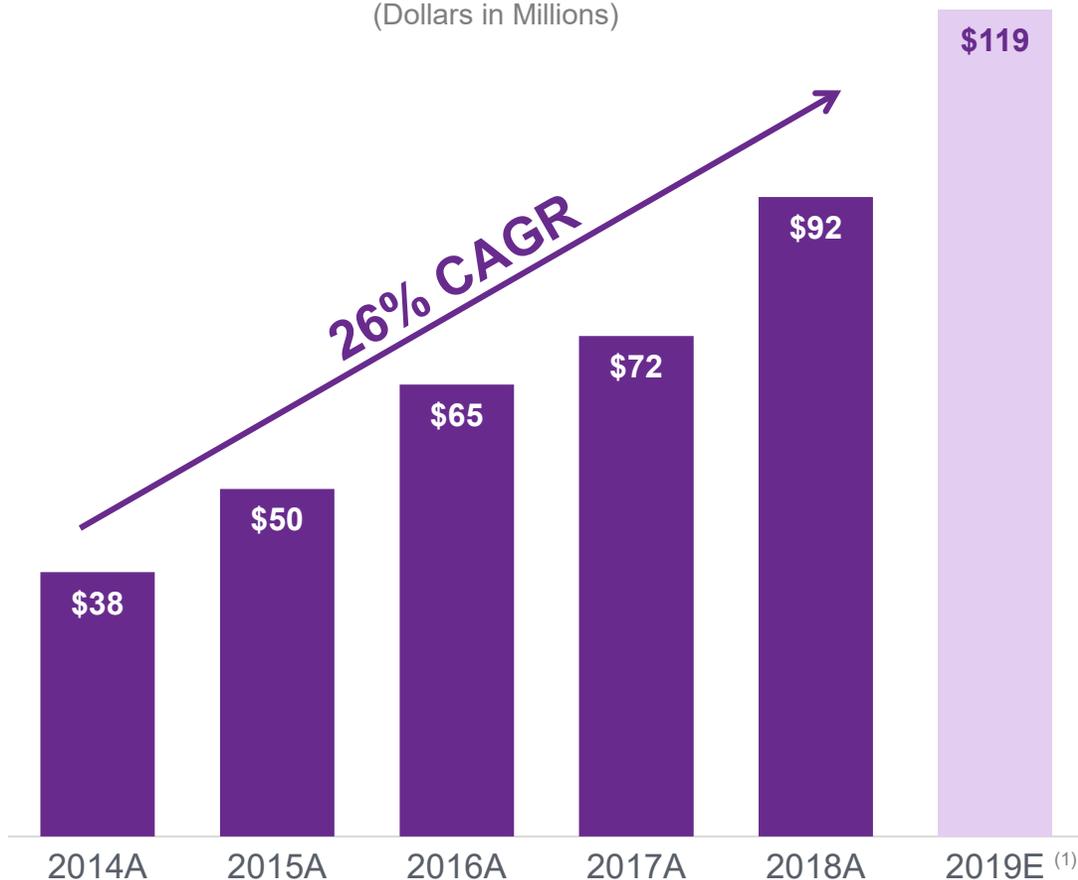
- Expect launch of Percepta® Genomic Sequencing Classifier (GSC) in mid-2019
- Accelerating development of first nasal swab test for early lung cancer detection
- Global addressable market for lung cancer estimated at more than \$30 billion



# Robust Annual Revenue and Genomic Volume Growth

## Annual Revenue

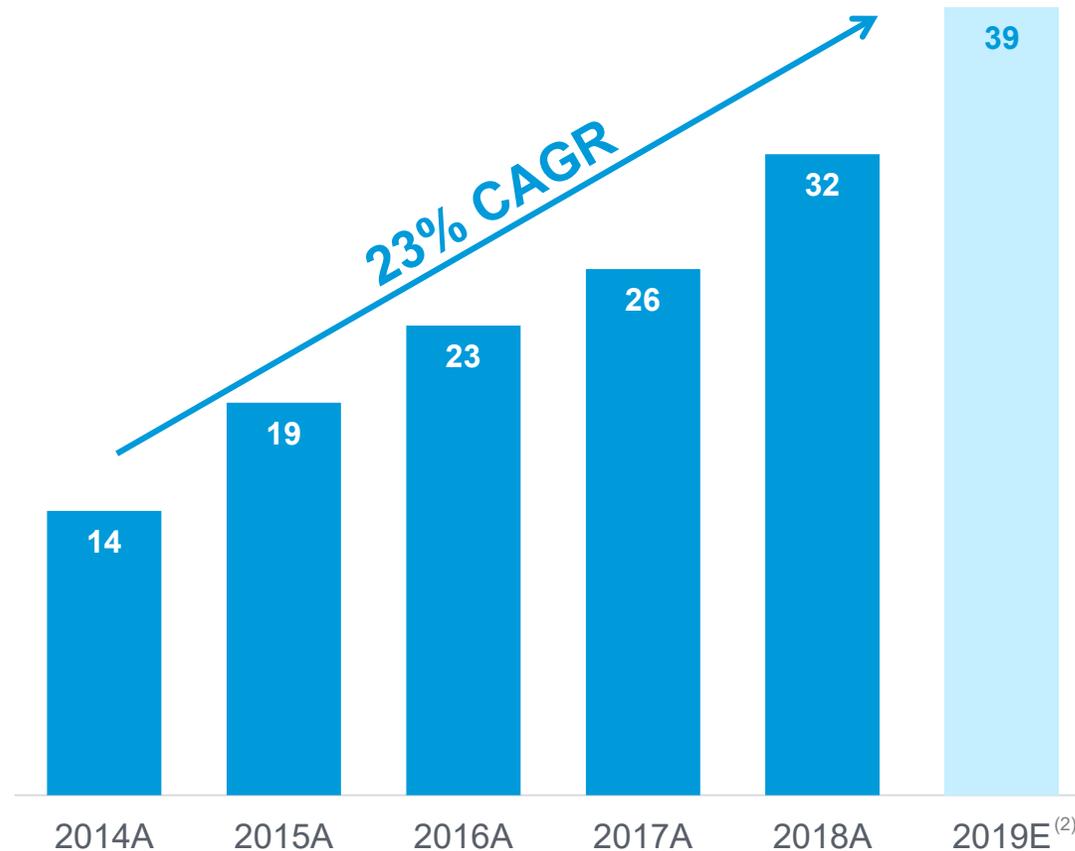
(Dollars in Millions)



(1) Midpoint of 2019 revenue guidance as of April 30, 2019

## Annual Genomic Volume

(in Thousands)



(2) As of April 30, 2019, the \$119 million midpoint of 2019 revenue guidance is supported by an estimated 20% to 25% growth in genomic test volume over 2018, or a midpoint of approximately 39,000 reported tests in 2019

## Building on a Firm Foundation

# Following a Proven Formula for Success

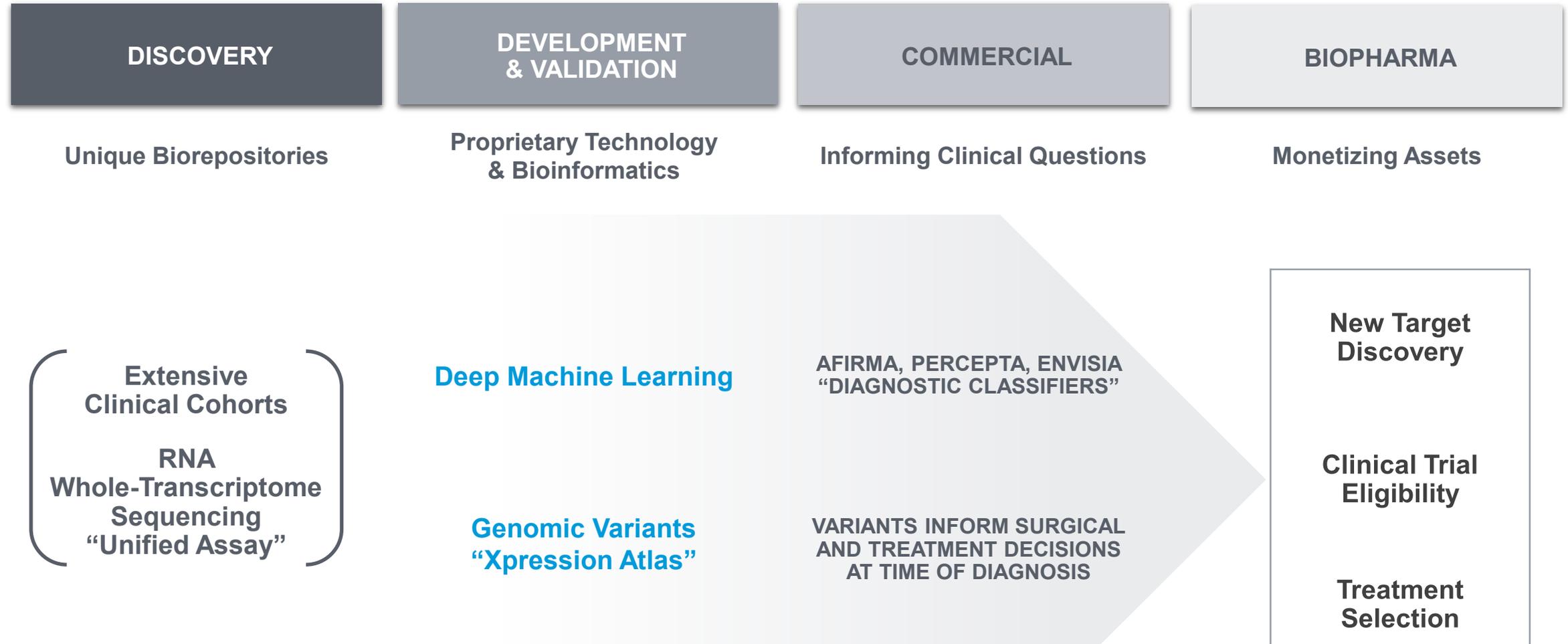


<h3>Relevance</h3> <p>ANSWER QUESTIONS THAT MATTER!</p> <p>INTEGRATE INTO CURRENT CARE PATHWAY TO CHANGE PRACTICE AND REDUCE COSTS</p>	<h3>Rigor</h3> <p>BUILD ROBUST SCIENTIFIC AND CLINICAL EVIDENCE; INFORM GUIDELINES</p>	<h3>Rationale</h3> <p>PROVIDE ANSWERS THAT CHANGE CARE WITH REAL CLINICAL UTILITY AND ECONOMIC VALUE</p>
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## Reimbursement

Extensive experience and coverage policies with payors pave way for reimbursement expansion

# A Powerful Scientific Platform: Multiple Vectors for Value Creation



# Expanding Along the Value Chain



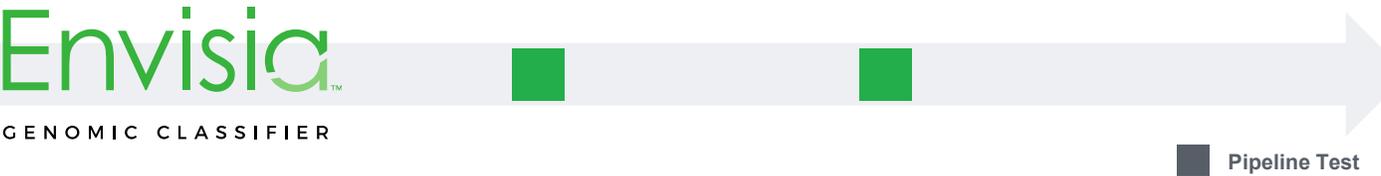
Thyroid



Lung Cancer



ILD/IPF



DELIVERING VALUE TO PATIENTS, CLINICIANS AND PAYORS ACROSS THE CLINICAL CARE CONTINUUM

# Leading in the Age of Evidence

***Deep library of clinical evidence published in top-tier journals***

**Afirma**  
THYROID FNA ANALYSIS

- 3 clinical validation studies
- 1 analytical verification study
- 23 clinical utility studies, including 3 long-term clinical outcome studies
- 2 cost-effectiveness and quality-of-life studies



The NEW ENGLAND  
JOURNAL of MEDICINE

**Percepta**  
BRONCHIAL GENOMIC CLASSIFIER

- 2 clinical validation studies
- 1 analytical verification study
- 2 clinical utility studies
- 1 cost-effectiveness study
- PERCEPTA Registry with ~ 770 enrolled patients



The NEW ENGLAND  
JOURNAL of MEDICINE

**Envisia**  
GENOMIC CLASSIFIER

- 1 **combined** clinical validation and clinical utility study
- 2 clinical validation studies
- 1 analytical verification study
- 1 clinical utility patient study
- BRAVE ongoing clinical trial ~ 440 patients

THE LANCET  
Respiratory Medicine

# Highly Efficient Commercial Model

**Afirma.**

GENOMIC SEQUENCING CLASSIFIER

**Percepta.**

GENOMIC SEQUENCING CLASSIFIER

**Envisia.**

GENOMIC CLASSIFIER

## Sales Structure

SALES SPECIALIST ACROSS ALL PRODUCTS,  
PULMONARY CLINICAL EXPERTS,  
ACCOUNT SPECIALISTS FOR TOP ACCOUNTS

## Evidence

SCIENTIFIC RIGOR FOCUSED ON  
GENERATING DATA, PUBLICATIONS,  
GUIDELINES AND COMMERCIAL ADOPTION

## Reimbursement

IN-NETWORK STATUS  
WITH NEARLY ALL  
MAJOR U.S. HEALTH PLANS

**EXPECT TO ACHIEVE OPERATING CASH FLOW BREAKEVEN BEFORE END OF 2019**

# Our Founding Strategy: Improve Diagnostic Accuracy

Hundreds of thousands of patients evaluated for suspected disease



IMAGING AND/OR BIOPSIES

Diagnosis Uncertain\*

15% to 70%

\*In thyroid and lung indications

# Robust Market Opportunity Across Multiple Diseases

**Thyroid  
Cancer**

**\$840**<sub>MM</sub>

**Global Market  
Opportunity**

**Afirma**

GENOMIC SEQUENCING CLASSIFIER

**Lung  
Cancer**

**\$30**<sub>BN</sub>

**Global Lung  
Cancer Market  
Opportunity<sup>(1)</sup>**

**Idiopathic Pulmonary  
Fibrosis (IPF)**

**\$560**<sub>MM</sub>

**U.S. + EU Market  
Opportunity**

**Envisia**

GENOMIC CLASSIFIER

**\$500**<sub>MM</sub>  
**Percepta**  
BRONCHIAL GENOMIC CLASSIFIER  
U.S. Market Opportunity

Estimated market sizes based on Company estimates  
(1) Market size based on Company estimates and includes nasal swab test for early detection

## In Thyroid Cancer

# An Incredibly Inefficient and Avoidable Diagnostic Paradigm

**525<sub>K</sub>**

FINE NEEDLE ASPIRATIONS  
PER YEAR TO EVALUATE  
THYROID NODULES

**~15% to 30%**

YIELD INCONCLUSIVE RESULTS

**Majority**

OF PATIENTS WITH INDETERMINATE  
RESULTS UNDERGO SURGERY

**~75%**

DEEMED BENIGN POST-OPERATIVELY

Challenging diagnosis with

**100<sub>K</sub> +**

UNNECESSARY SURGERIES PERFORMED  
IN U.S. ANNUALLY <sup>(1)</sup>

Source: Company estimates

(1) ~180k surgeries performed to diagnose ~60K cancers

# Improving Patient Outcomes in Thyroid Cancer

**525,000** patients in U.S. evaluated  
for suspected thyroid cancer annually

↓  
**Ultrasound-guided FNA**

↓  
**Diagnosis Uncertain**

↓  
**~100,000**

**Afirma**

GENOMIC SEQUENCING CLASSIFIER

Benign

Reduce  
Unnecessary  
surgeries by  
**~70%**

Suspicious

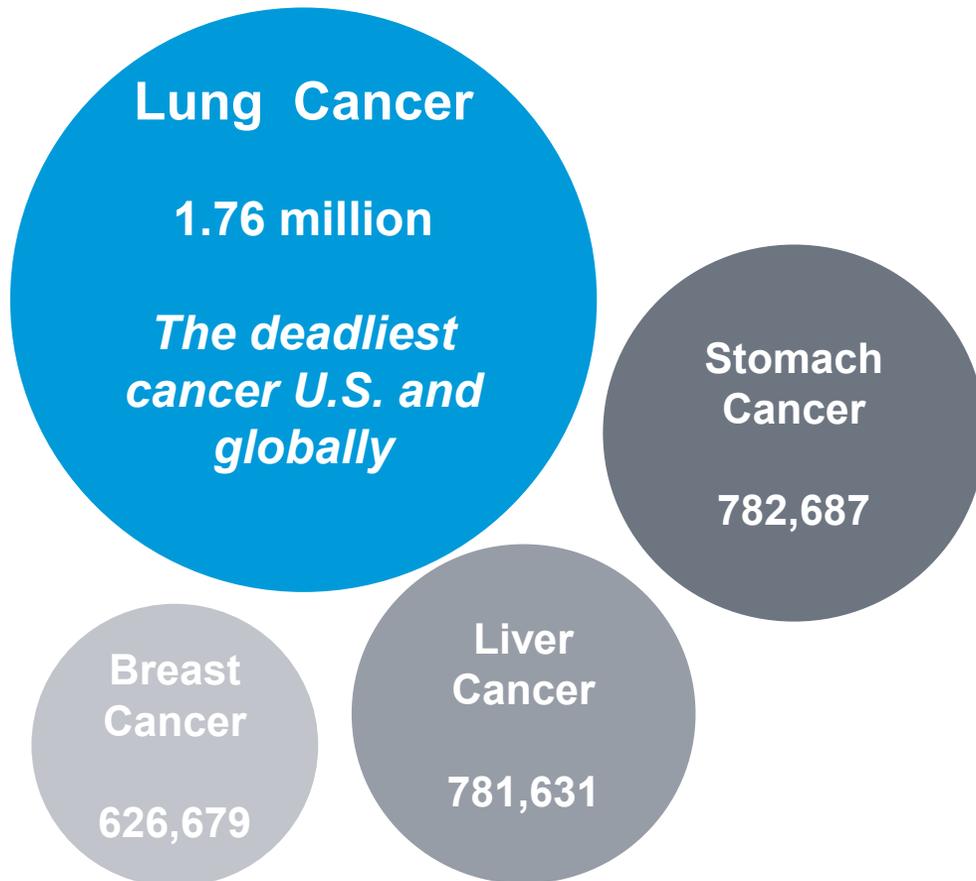
**Xpression Atlas**

Inform treatment  
decisions to improve  
patient outcomes

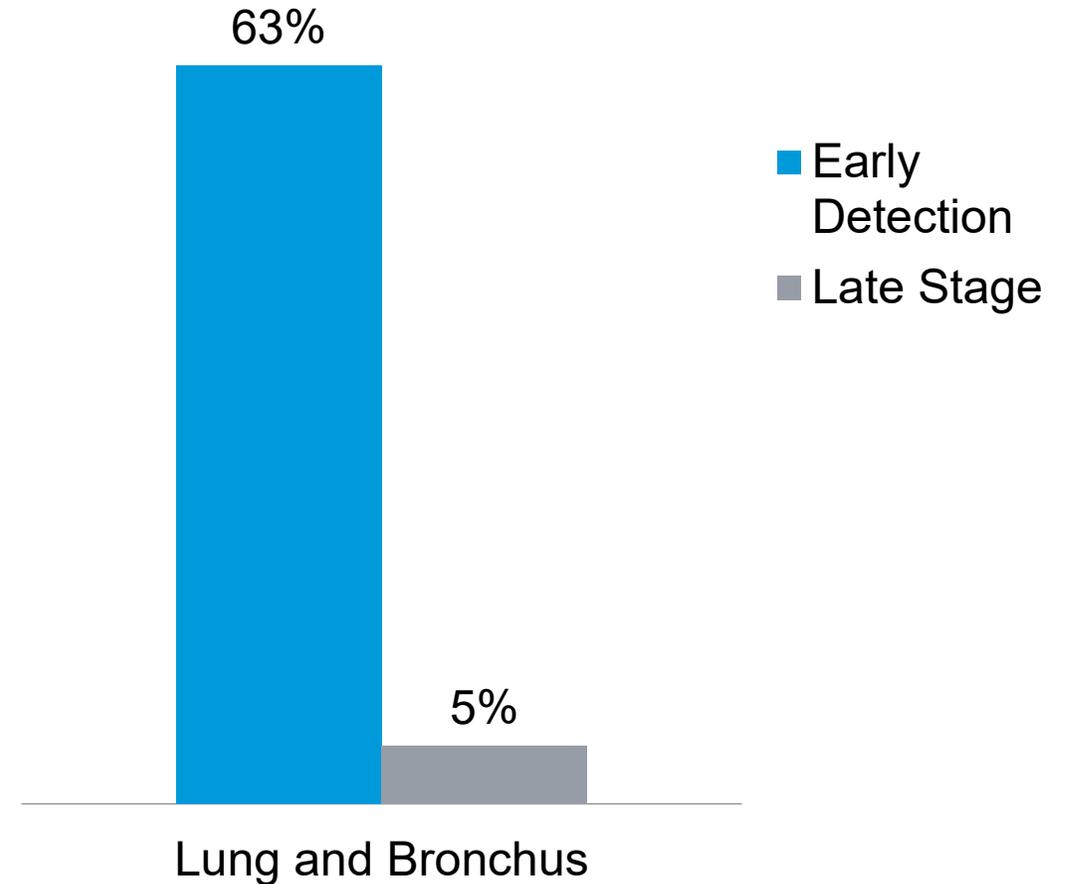
## In Lung Cancer

# Early Detection and Improved Diagnosis are Key to Saving Lives

Estimated Cancer Deaths Worldwide, 2018



Five-Year Survival Rate <sup>(1)</sup>



Sources: GLOBOCAN 2018, National Cancer Institute Surveillance, Epidemiology and End Results (SEER)

(1) "Early stage" includes invasive localized tumors that have not spread beyond organ of origin.

"Late stage" includes invasive cancers that have metastasized beyond the organ of origin to other parts of the body.

# A Complement to Diagnostic Bronchoscopy to Reduce Invasive Procedures in Lung Cancer

**1.8M to 2M** incidental lung nodules detected  
by CT scan in U.S. annually; most followed by CT

↓  
**360,000 Bronchoscopy**  
~80% intermediate risk

↓  
**Diagnosis Uncertain Up to 60%**  
**~150,000**

↓  
**Percepta**  
GENOMIC SEQUENCING CLASSIFIER

↙  
**Low-Dose  
CT Scan**

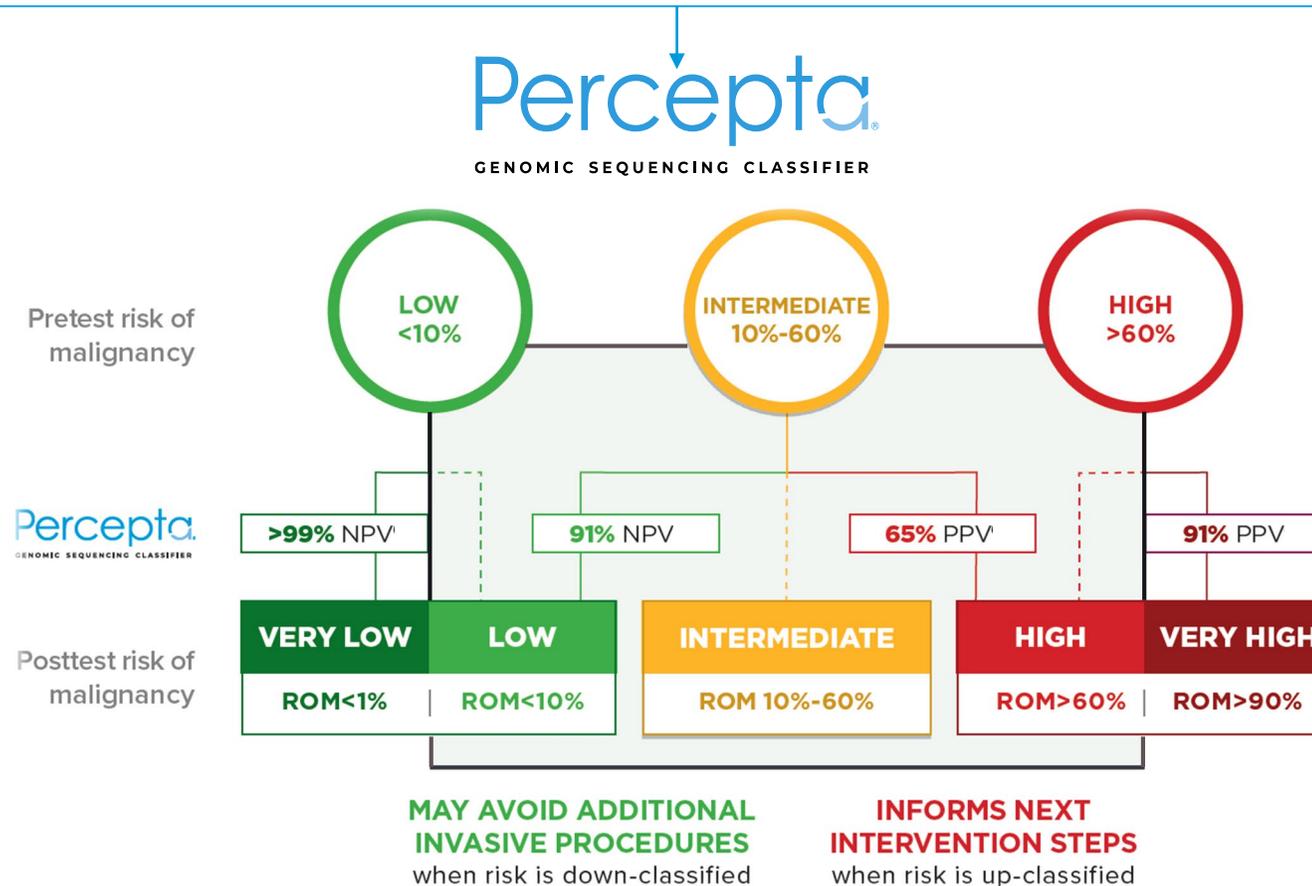
Follow with LDCT in lieu  
of invasive procedure

↘  
**Improved  
Treatment Decisions**

Announced at ATS 2019

# “Next-Generation” Percepta® Genomic Sequencing Classifier

~150,000 PULMONARY NODULE BRONCHOSCOPIES ARE INCONCLUSIVE



# In Idiopathic Pulmonary Fibrosis (IPF) A Progressive, Life-Threatening, Interstitial Lung Disease



## Notoriously difficult to diagnose

LEADING TO TREATMENT DELAYS, PROLONGED MISDIAGNOSIS,  
PATIENT DISTRESS AND ADDED HEALTHCARE EXPENSE

## Median survival time 2.5 years

LIFE EXPECTANCY WITH IPF IS WORSE THAN THAT OF MANY CANCERS

### IMPROVING DIAGNOSIS TO INFORM TREATMENT THAT COULD SAVE LIVES

Sources: American Lung Association; Ley B, et al. Clinical Course and Prediction of Survival in Idiopathic Pulmonary Fibrosis. *AJRCCM* 2011; Hutchison J, et al. Increasing Global Mortality from Idiopathic Pulmonary Fibrosis in the Twenty-First Century. *Annals ATS* 2014

# IPF: Accelerate Diagnosis to Get Patients Life-Extending Treatment Faster

**~200,000** patients in U.S. and Europe evaluated for suspected ILD

↓  
**High Resolution CT**

↓  
**Lack highly confident Dx**  
**~150,000** up to 75%\*

↓  
**Envisia™**

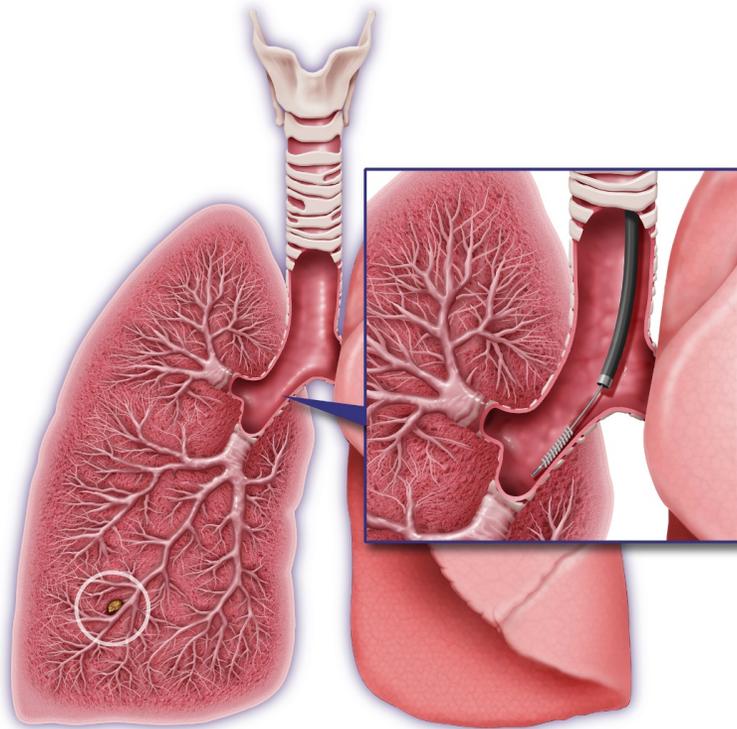
GENOMIC CLASSIFIER

↓  
**Classic UIP pattern**  
improves confidence in  
IPF diagnosis without surgery

\* Based on Company estimates

## Pipeline Highlight: Nasal swab test for early lung cancer detection

Using novel, proprietary field of injury science that powers **Percepta**  
BRONCHIAL GENOMIC CLASSIFIER



Peripheral lung nodules **difficult to biopsy** leading to **late-stage diagnosis**

Exposures such as smoking leads to genomic alterations in airway **detected from a simple brushing or swab**

Percepta classifier is based on bronchial airway brushing

New nasal swab test is designed to **detect lung cancer** from **genomic alterations in the nose**

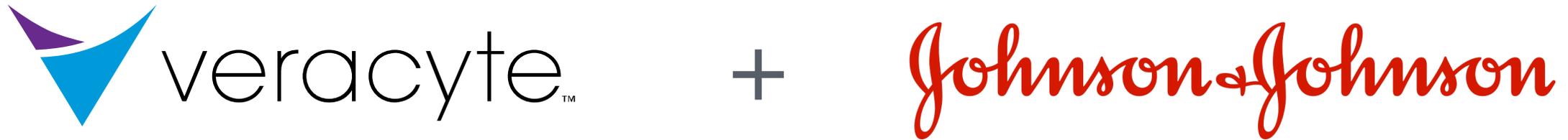
**JNCI**

**Shared Gene Expression Alterations in Nasal and Bronchial Epithelium for Lung Cancer Detection**

- Perez-Rogers J, et al. *JNCI J Natl Inst.* 2017

**NON-INVASIVE NASAL SWAB TEST DESIGNED FOR EARLY DETECTION TO SAVE LIVES**

# Strategic Collaboration Accelerates Pipeline and Expands Market Opportunity



Accelerates two key programs for Veracyte:

- Nasal swab test designed for early lung cancer detection (expect preliminary data by end of 2019)
- Commercialization of second-generation Percepta classifier, deploying RNA whole-transcriptome sequencing platform (expected in mid-2019)

+\$50M in monetary and non-monetary value\*

\*\$20MM cash and estimated \$30M value on cohorts

**FURTHER STRENGTHENS OUR LEADING POSITION IN LUNG CANCER DIAGNOSIS**

# Experienced Team with Track Record of Success

## Bonnie Anderson

*Chairman and  
Chief Executive Officer*



## Keith Kennedy

*Chief Financial Officer*



## Chris Hall

*President and  
Chief Operating Officer*



## Giulia Kennedy, Ph.D.

*Chief Scientific and Medical Officer*



## John Hanna

*Chief Commercial Officer*



## Freddie Bowie, Ph.D.

*Vice President, Corporate and  
Business Development*



# Catalysts to Drive Continued Momentum in 2019



Revenue Growth

✓ Afirma GSC and Xpression Atlas

Launch of next-generation Percepta classifier in mid-2019

✓ Final Medicare coverage decision; commercial expansion

Evidence Development

✓ Ongoing real-world studies

✓ Spotlight clinical utility data

✓ Publication of clinical validation and utility data  
**THE LANCET**  
Respiratory Medicine

Pipeline Advancement

Field of injury advances; early data on nasal swab test

✓ Achieved



# VCYT: A Compelling Value Proposition

## **Proven Model of Success**

Answering clinical questions that matter

Novel RNA whole-transcriptome sequencing and machine learning scientific platform

Clinical evidence published in top-tier journals

## **First-to-market, first-to-coverage**

Clinically impactful tests

Address large, underserved thyroid cancer, lung cancer and idiopathic pulmonary fibrosis markets

## **Significant growth opportunity**

Current and pipeline products address market opportunity of more than \$30 billion

## **Experienced management team**

with deep expertise and proven track record

## **Continued strong momentum**

positions VCYT for near- and long-term success