

# Precision Medicine

Providing the Right Therapy to the  
Right Patient at the Right Time

## A NEW STANDARD IN CLINICAL CARE

Applying precision medicine into the clinical flow generates preventative and diagnostic solutions to advance human care—bringing new targeted therapies, improved patient outcomes, and cost savings.

Between **100 million and 2 billion human genomes** will be sequenced by 2025<sup>1</sup>

This will result in **2 to 40 exabytes** of data storage<sup>1</sup>



## INNOVATION IN HEALTHCARE

Precision medicine enables population health.



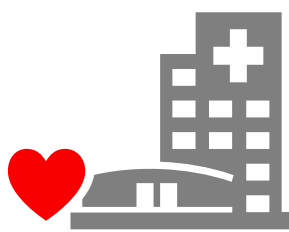
**Oracle** solutions accelerate the integration of individuals' genomic knowledge to simplify biomarker discovery and create precise treatment plans for targeted populations.

## DRIVERS OF PRECISION MEDICINE

Collaboration across the precision medicine ecosystem advances patient care, improves quality of life, and reduces cost.

**17%**

**improved treatment adherence** if treatment strategy is based on patients' molecular profile<sup>2</sup>



Patients

**1 out of 5**

**patients\*** being prescribed fewer medications after receiving GeneSight testing<sup>2</sup>



Advocacy Groups

**US\$1,036**

**annual pharmacy cost savings** if genetic test results are used to guide treatment decisions<sup>2</sup>



Providers

**US\$215 Million**

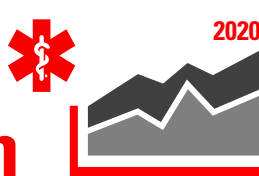
**investment** in President Obama's Precision Medicine Initiative (2016 budget)<sup>4</sup>



Payers

**US\$173 Billion**

**annual costs** in cancer care in the US projected by 2020<sup>3</sup>



Governments/  
FDA

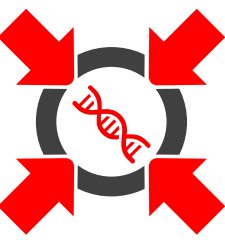
**45%**

**of FDA approvals** were for targeted therapies in 2013<sup>5</sup>



**US\$268 Million**

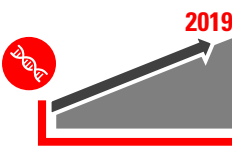
**venture funding** in precision medicine software in 2014<sup>6</sup>



IT  
Companies

**US\$3.5 Billion**

**by 2019**—the global genome editing market expectation<sup>7</sup>



Pharma/  
Academic  
Research  
Centers

\*Based on a study of 13,000 patients.

## FROM INDIVIDUALS TO POPULATIONS



Oracle Health Sciences solutions—built by healthcare professionals *for* healthcare professionals.

Oracle's comprehensive healthcare solutions create a fast-growing, best-of-breed ecosystem for managing both clinical and genomics data to deliver a new standard of care from individuals to populations.

For more information, visit [oracle.com/goto/TRC1](http://oracle.com/goto/TRC1)

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<sup>[1]</sup> Stephens, Z.D. et al. *PLOS Biology*, dx.doi.org/10.1371/journal.pbio.1002195, 2015

<sup>[2]</sup> benzinga.com/pressreleases/15/08/p5760224/new-study-finds-assurex-healths-genesight-cpgxtm-precision-medicine-tes#ixzz3jxQdQtY0

<sup>[3]</sup> ajmc.com/journals/evidence-based-oncology/2015/august-2015/precision-oncology-are-payers-on-the-right-pathway#sthash.v9XmH55j.dpuf

<sup>[4]</sup> whitehouse.gov/the-press-office/2015/01/30/fact-sheet-president-obama-s-precision-medicine-initiative

<sup>[5]</sup> www.fda.gov/aboutfda/reportsmanualsforms/reports/ucm439082.htm

<sup>[6]</sup> rockhealth.com/reports/digital-health-funding/

<sup>[7]</sup> marketsandmarkets.com/Market-Reports/genome-editing-engineering-market-231037000.html