



AWS Vision: Healthcare, Life Sciences, Genomics

Shez Partovi, MD

Worldwide Lead
Healthcare, Life Sciences, Genomics

Healthcare, Life Sciences, Genomics at AWS

13+

Years as the world's most comprehensive and broadly adopted cloud platform

6+

Years dedicated healthcare and life sciences team and maturity

17+

Years of experience, on average, for our team leaders in the healthcare and life sciences industry

CHIEF MEDICAL OFFICER • CHIEF DIGITAL OFFICER

GENOMICS RESEARCHER • INFORMATICISTS

HEALTHCARE ANALYST • POP HEALTH SPECIALIST

CLINICAL RESEARCHER • NEUROSCIENTIST • BIOCHEMIST

PHARMACOLOGIST • ASSOCIATE PROFESSOR • PHYSICIAN

Growing HCLS ecosystem

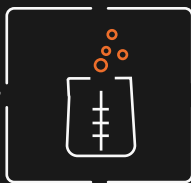


AWS across the Life Science value chain



Early Phase
Research

Hit Rate
Optimization



Clinical
Trials

Protocol
Feasibility



Manufacturing

Unplanned
Downtime



Commercialization

Real World
Evidence



Digital
Therapeutics

Self-
Management
Apps

Numerate

 **Knowledge
Clinical Cloud**

 **bigfinite**

 **Takeda**

 **Propeller**

AWS enabling Genomics



Store, Protect,
Optimize

Device Data
Storage



Secondary
Analysis

AWS native +
3rd Party



1P + 3P
Data Repository

Geno + Pheno
+ Digital Exhaust



Analytics
& AI/ML

Interpretation
(PM & Research)

illumina®

DNA[^]nexus

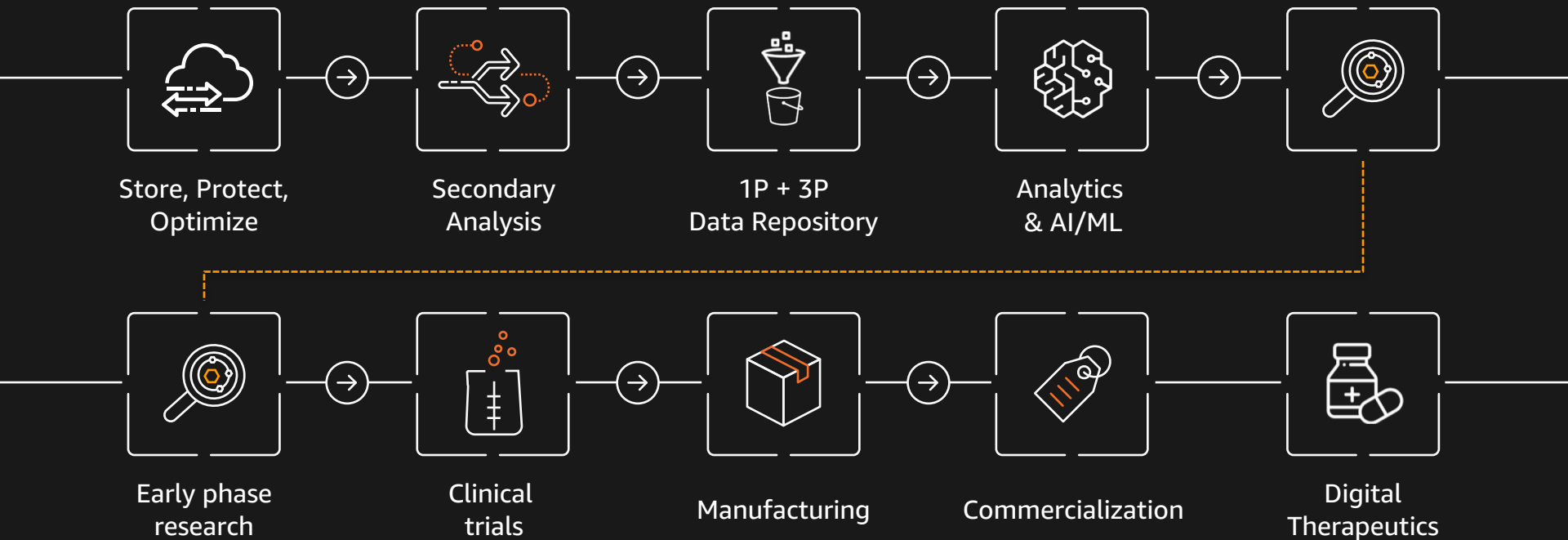
GRAIL



Children's Hospital
of Philadelphia®

CLEMSON
UNIVERSITY

AWS enabling Genomics & Life Sciences



AWS Programs in Healthcare



Digital
Front Door

Consumer
Engagement



Digital
Therapeutics

Patient
Activation



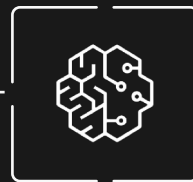
Cloud
Migration

Hybrid
Cloud



Store, Protect,
Optimize

Data
Lakes



Analytics
& AI/ML

Clinical &
Ops Forecasting

Personalize the
Health Journey

IT Cloud
Transformation

Predict Patient
Health Events

AWS Programs in Healthcare



Digital
Front Door



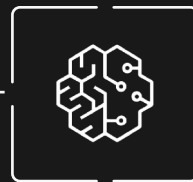
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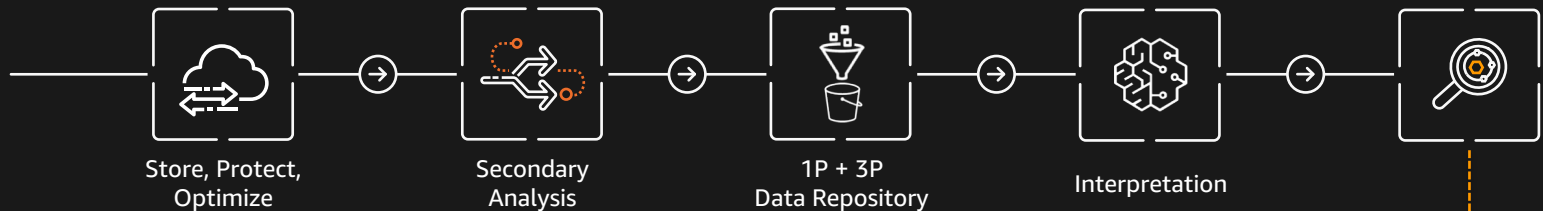
Data
Lakes

Clinical &
Ops Forecasting

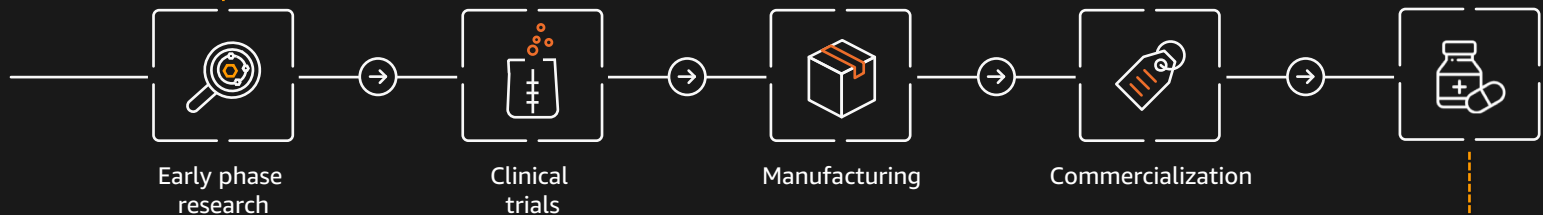


Beth Israel Deaconess
Medical Center

Genomics



Life Sciences



Healthcare





Our Vision:

Let's solve big problems together

Shez Partovi, MD

Worldwide Lead
Healthcare, Life Sciences, Genomics
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