

# **Healthcare Al Innovation**

## **Kas Parthasarathy**

Healthcare Solutions Leader

US Non-Profit Health & Academic Medical Centers

**Amazon Web Services (AWS)** 

## **Healthcare AI Innovation**

## **Dana-Farber** Cancer Institute

#### **Clinical Research**

Generative AI Solution Interpret Arterial Blood Gas (ABG) Test Results

## 85% Accuracy

Compensated Acid-Based Disorders



#### **Patient Experience**

Health Records + Device Data + Patient-reported Outcomes

Cohort Management + Patient Mobile App

Predict high-risk patients Identify care gaps

# UC San Diego

### **Medical Imaging**

ML Model – Predict Pneumonia in Chest X-rays

65000 X-rays – 6 Months

Accurately Diagnosed CoVID19

## **Healthcare AI Innovation**



#### Academia

Amplify GenAl - Generative Al Portal

## 17,000 users

encompassing all students, faculty, staff, and researchers at Vanderbilt.

# Stanford University

#### **Precision Medicine**

MyPHD Multi-modal Health Management System

Stanford Data Ocean Analysis Platform

Wearables data + EHR + Molecular Profiles

# pieces

#### **Clinician Burn-Out**

Al-powered Automation

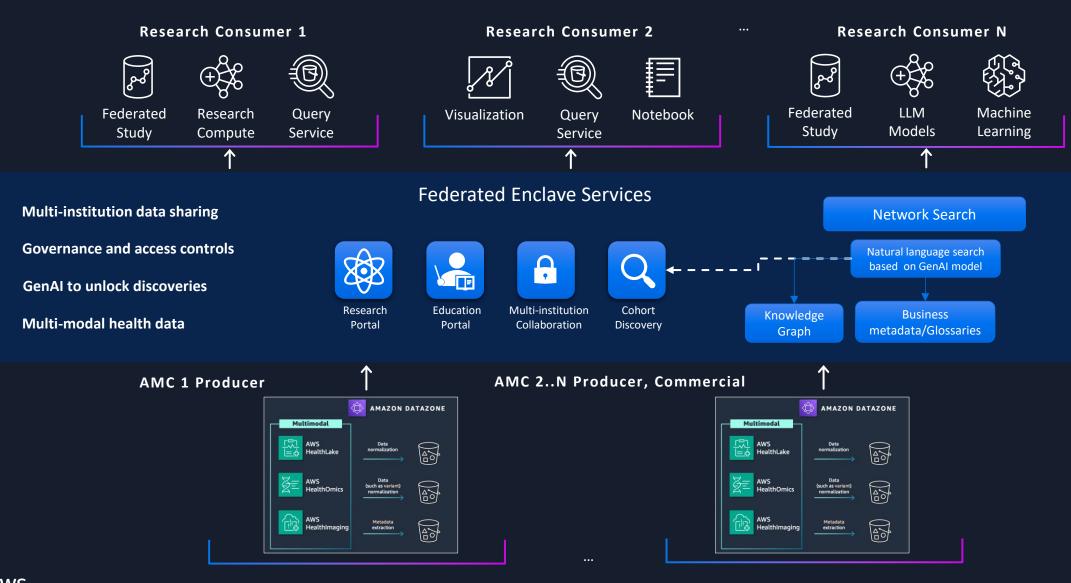
SOAP note generation

**Discharge Summaries** 

Ambient Listening Scribe



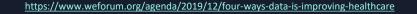
## **AWS Federated research network**

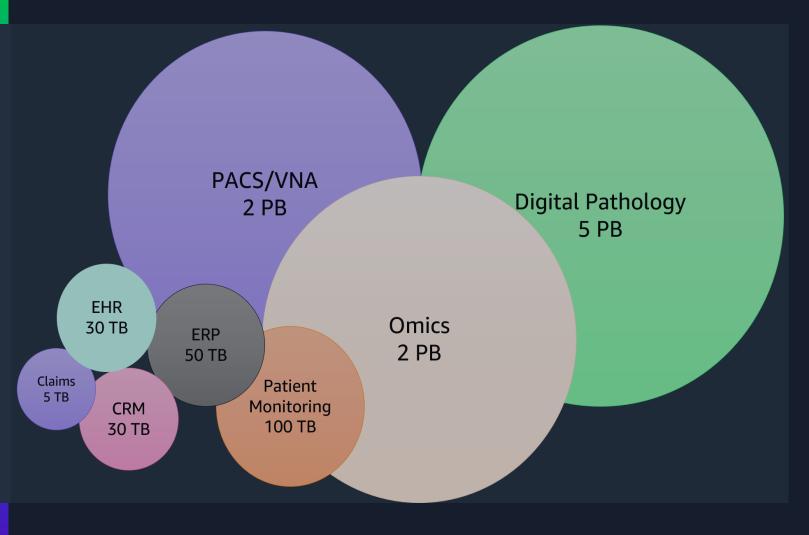


## Healthcare systems generate massive amount of data every day

~50 petabytes of data generated annually by hospitals

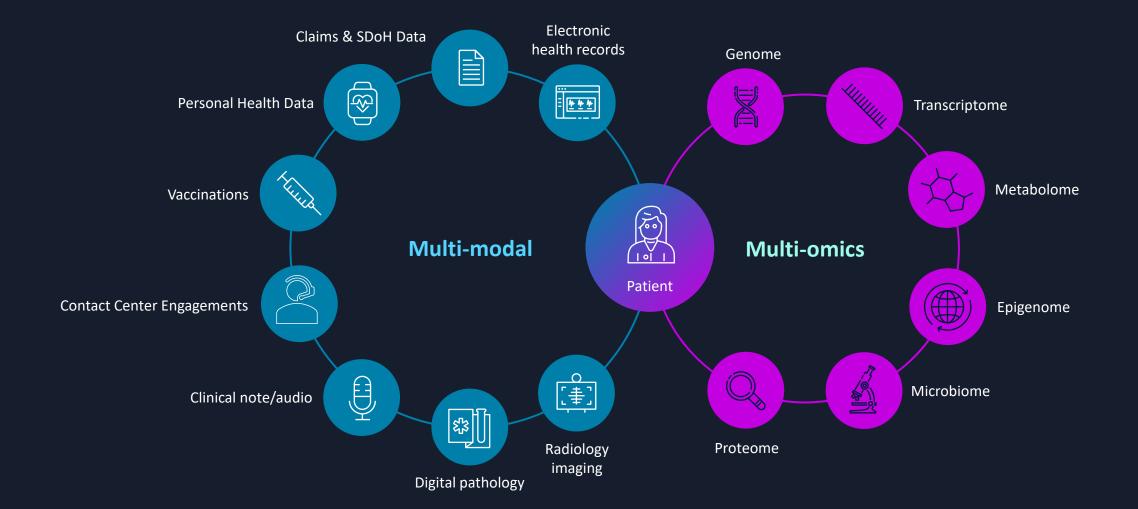
97% of health data goes unused





aws

## Patient/Subject Centric Approach



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# Thank you!

## **Kas Parthasarathy**

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