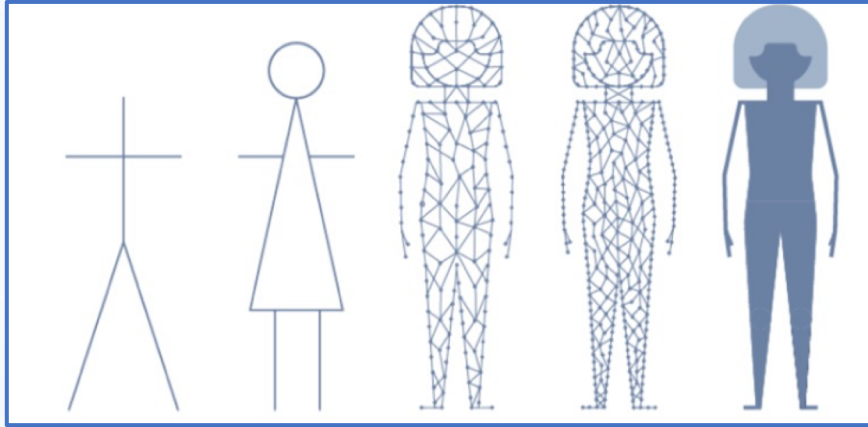
A photograph of a modern, multi-story building with large glass windows and a concrete frame. The building is part of the University of California, Irvine Health Affairs complex. The sky is clear blue. In the foreground, there is a paved walkway, some landscaping with small trees and flowers, and a blue sign that says "EMERGENCY".

Steve A. N. Goldstein, MA, MD, PhD, FAAP
Vice Chancellor, Health Affairs
University of California, Irvine

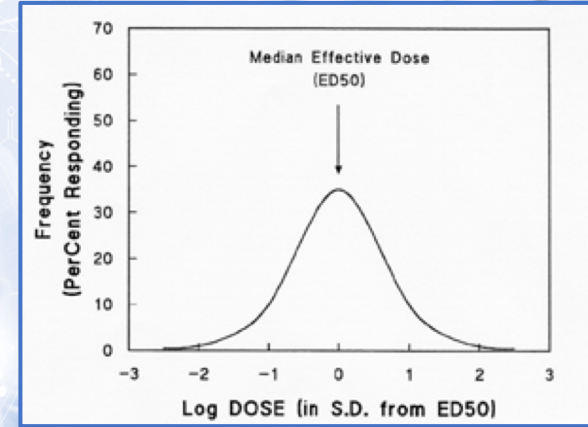
July 23, 2024

UCI Health Affairs

Quality Healthcare Demands All Data in Raw Form



Data deepens insight for each unique person:
genes, omics, images, lab values, SES, zip
code, exposures, lifestyle, diet ...



Data treats each person not
the average of a group



HHS Vision for the Future of Healthcare

One Health in a Digital World



HHS Vision for the Future of Healthcare

One Health in a Digital World

GOAL: Bring Data into a Network controlled by Patients



Patient and caregivers

- **Patients** determine who can access and for what purposes
- **Data is aggregated across lifetime** – comprehensive from health through disease
- **A standard health record (SHR) can be extracted** – enables patients (or their proxies) to seamlessly review data where and when needed for care and research

Health Data Ecosystem: scalable, dynamic, computable, and secure for all
PURPOSE: 1st optimal patient-care, will speed research, policy, equity

HHS

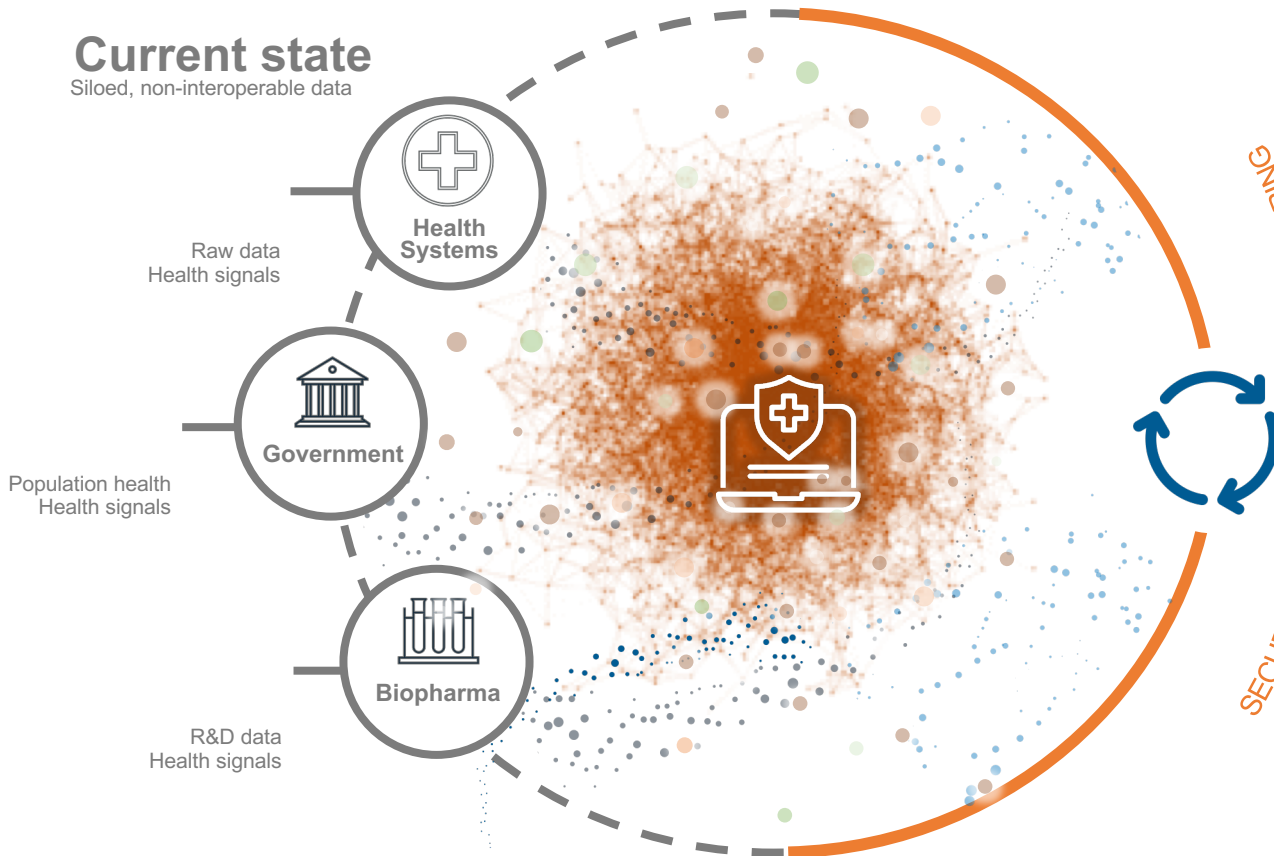
NIH

NCI

Creating a Computable Health Ecosystem

Current state

Siloed, non-interoperable data



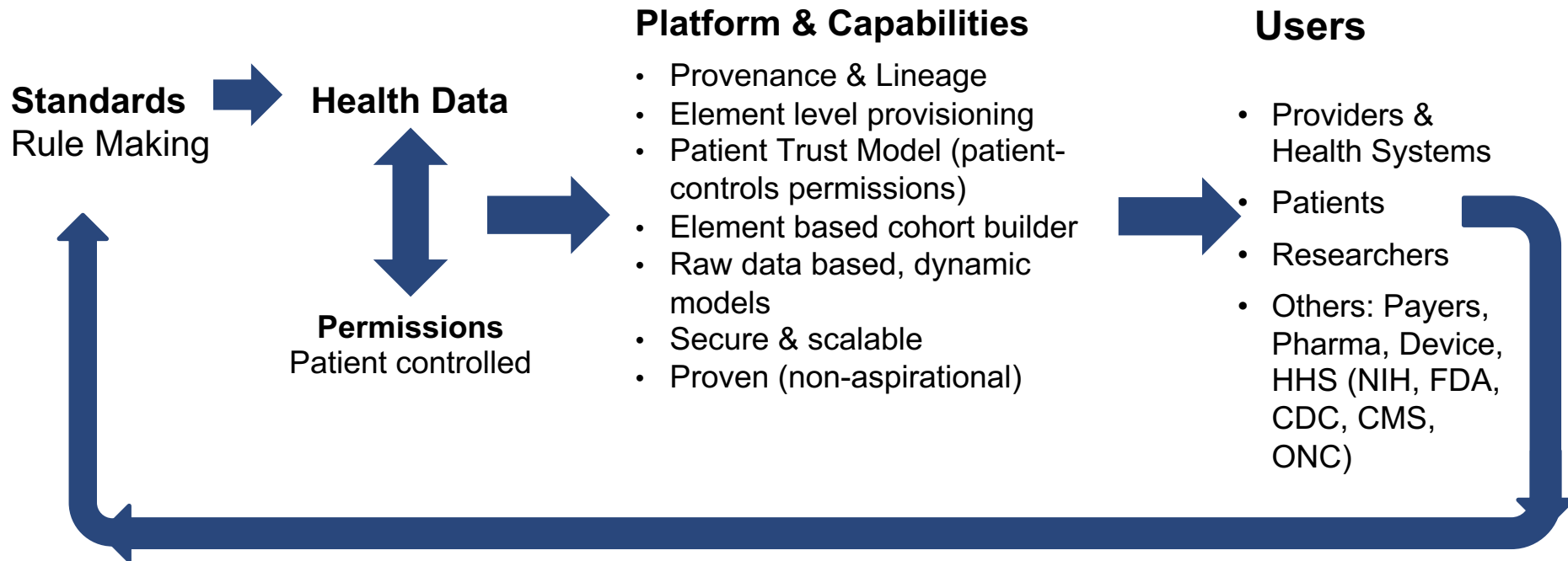
Computable health model

Single, reconfigurable, computable data set

- Structured and unstructured signals are included
- Raw data is never lost, patient ownership preserved, and all changes are auditable
- Data and information can be aligned to various use cases

SECURE COLLABORATION & DATA SHARING

Health Data Ecosystem



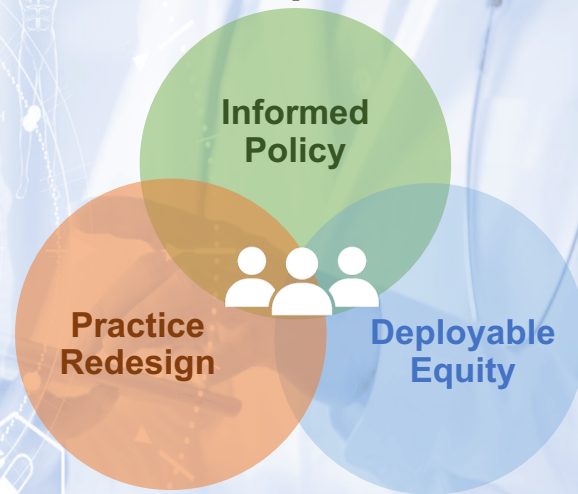
UCI Institute for Precision Health (IPH)

UC Irvine Role HHS/NIH Health Ecosystem

- The AHS on the small team leading redesign with NIH Director
- Creating and integrating content at UCI to exemplify the NIH strategy
- One Health UCI model = NIH
- Chow Innovation Lab (problem statements → outputs)



IPH Domains of Impact



Unit success measured as improved outcome in domains (includes cost-effectiveness)