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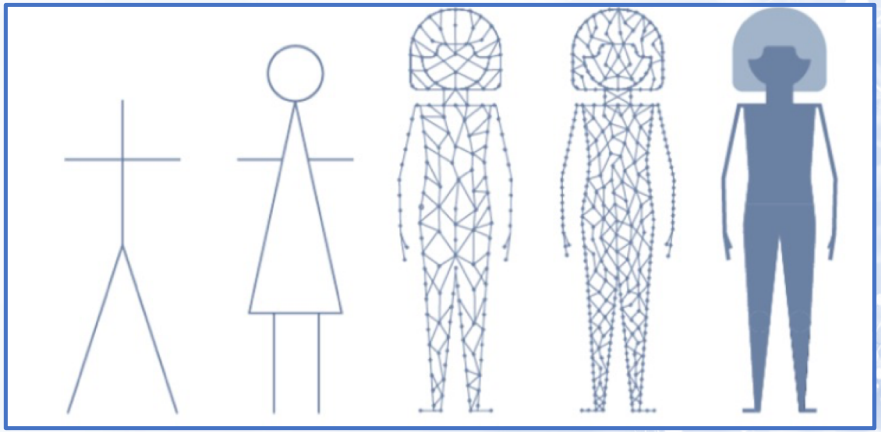
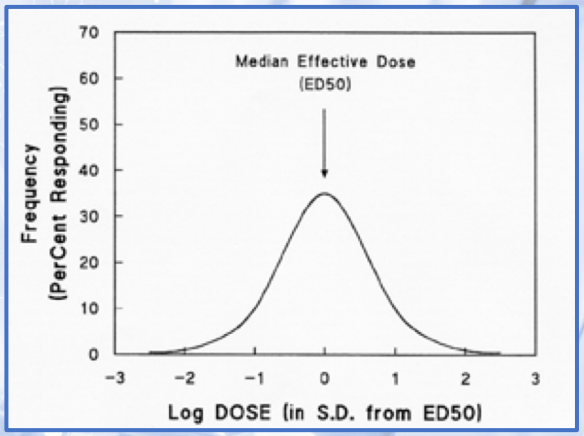
Quality Healthcare Demands All Data in Raw Form





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

GOAL: Bring Data into a Network controlled by Patients

- **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

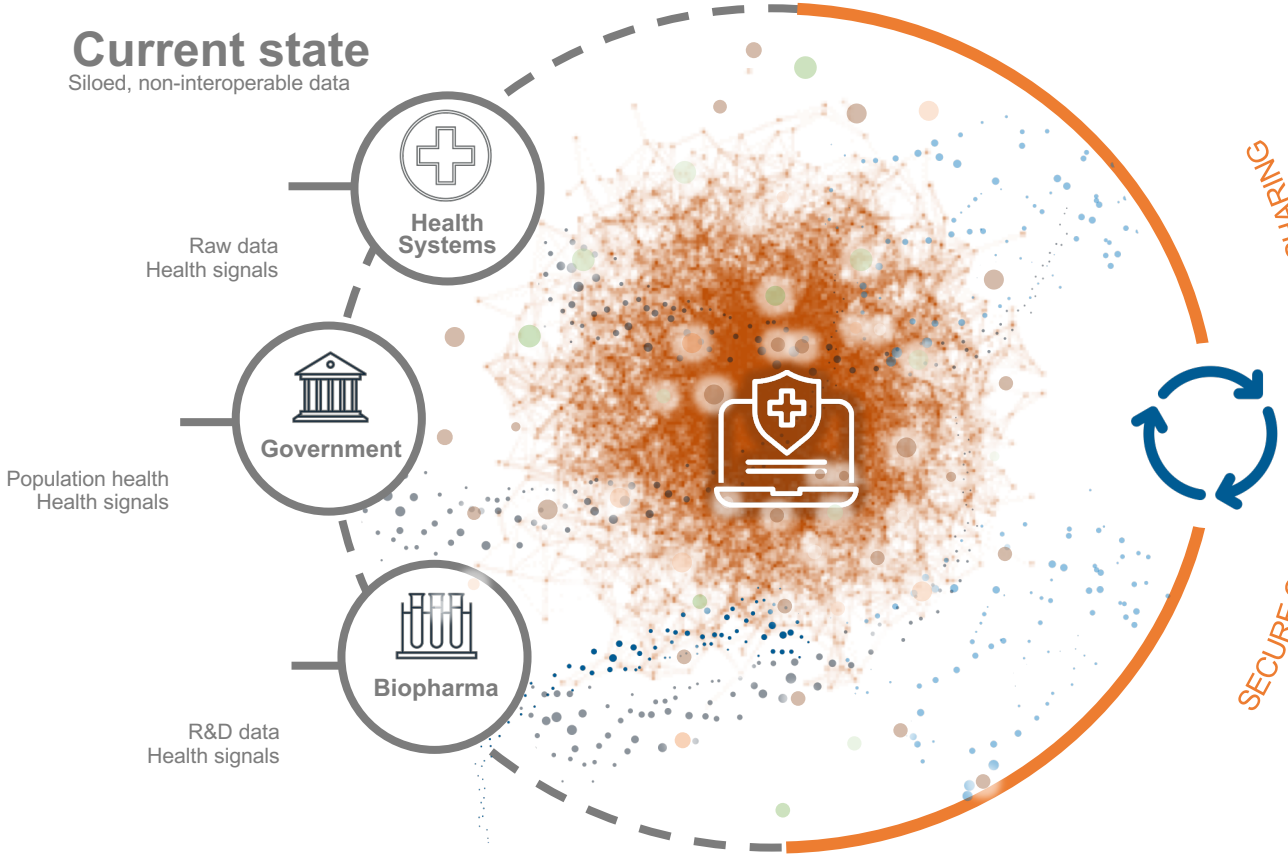
Health Data Ecosystem: scalable, dynamic, computable, and secure for all
PURPOSE: 1st optimal patient-care, will speed research, policy, equity

HHS

NIH

NCI

Creating a Computable Health Ecosystem

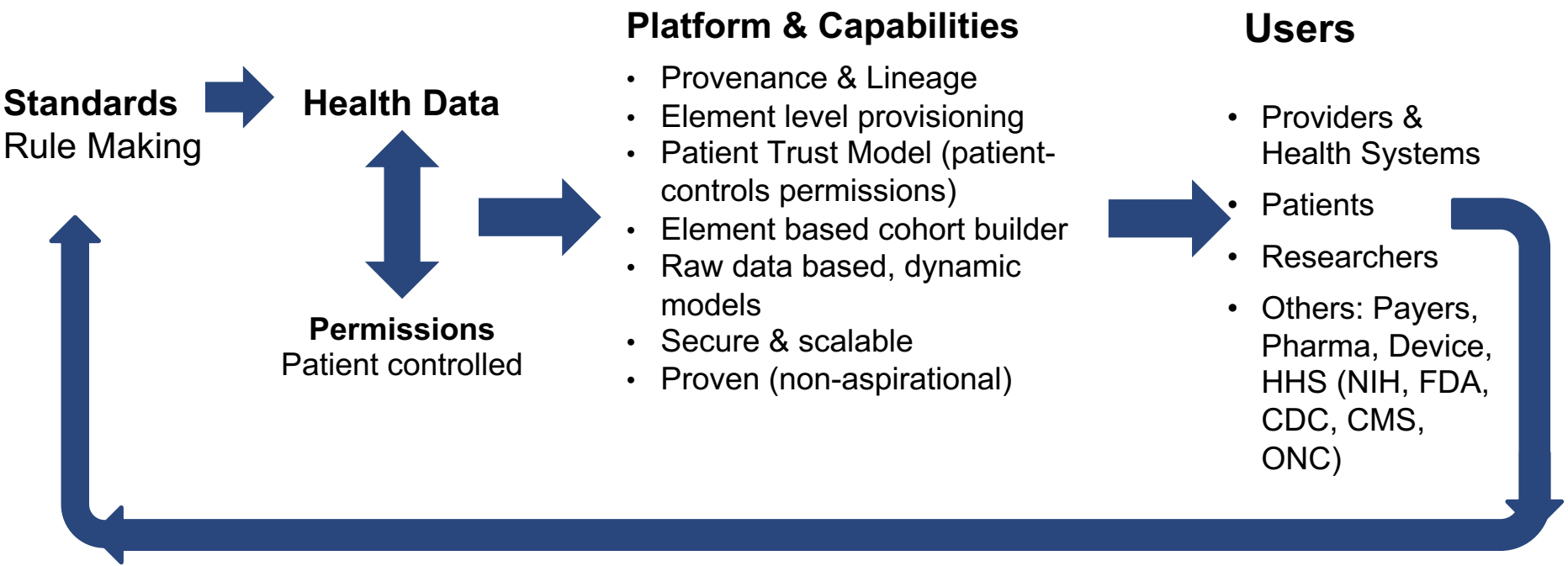


Computable health model

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

Health Data Ecosystem

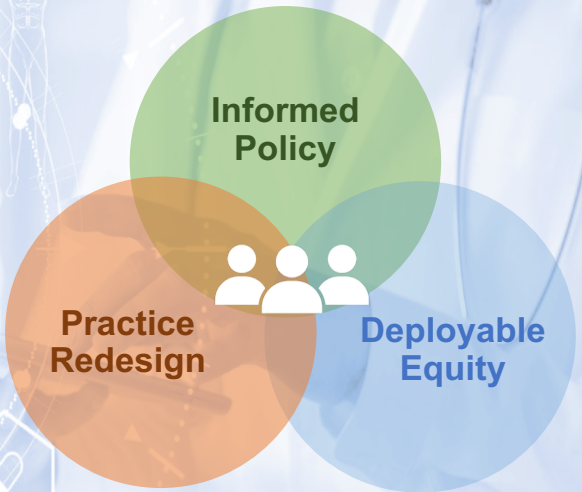


UCI Institute for Precision Health (IPH)

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)