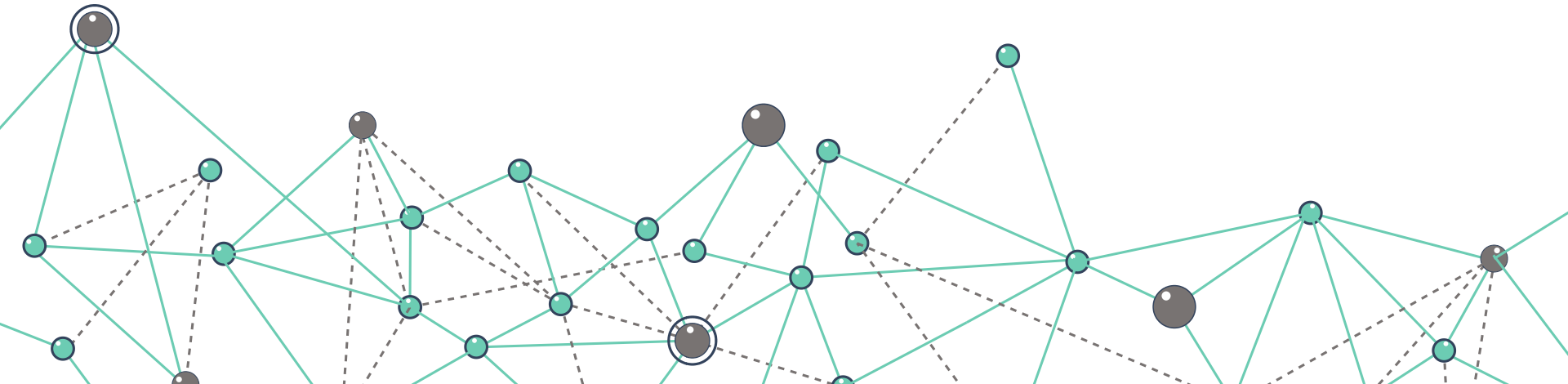
THE PUBLIC HEALTH COMMUNITY PLATFORM

A solution for a modern public health enterprise

March 4, 2015



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Wayne Loschen
ISDS Member Representative, PHCP Steering Committee

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TOPICS

- Vision/Mission/Strategic Map
- Community-driven Development through Steering Committee
- Current Progress and Next Steps
- Future State and Possibility

Community
Development

DEVELOPMENT PROCESS

- Culture of Joint Development
- Key Elements
  - Stakeholders
  - Effective Governance
  - Transparency
  - Sustainability
- Project Selection
  - Needed
  - High Priority
  - Manageable Risks

http://www.phii.org/sites/default/files/resource/pdfs/Joint%20Development%20Report-%20Final.pdf

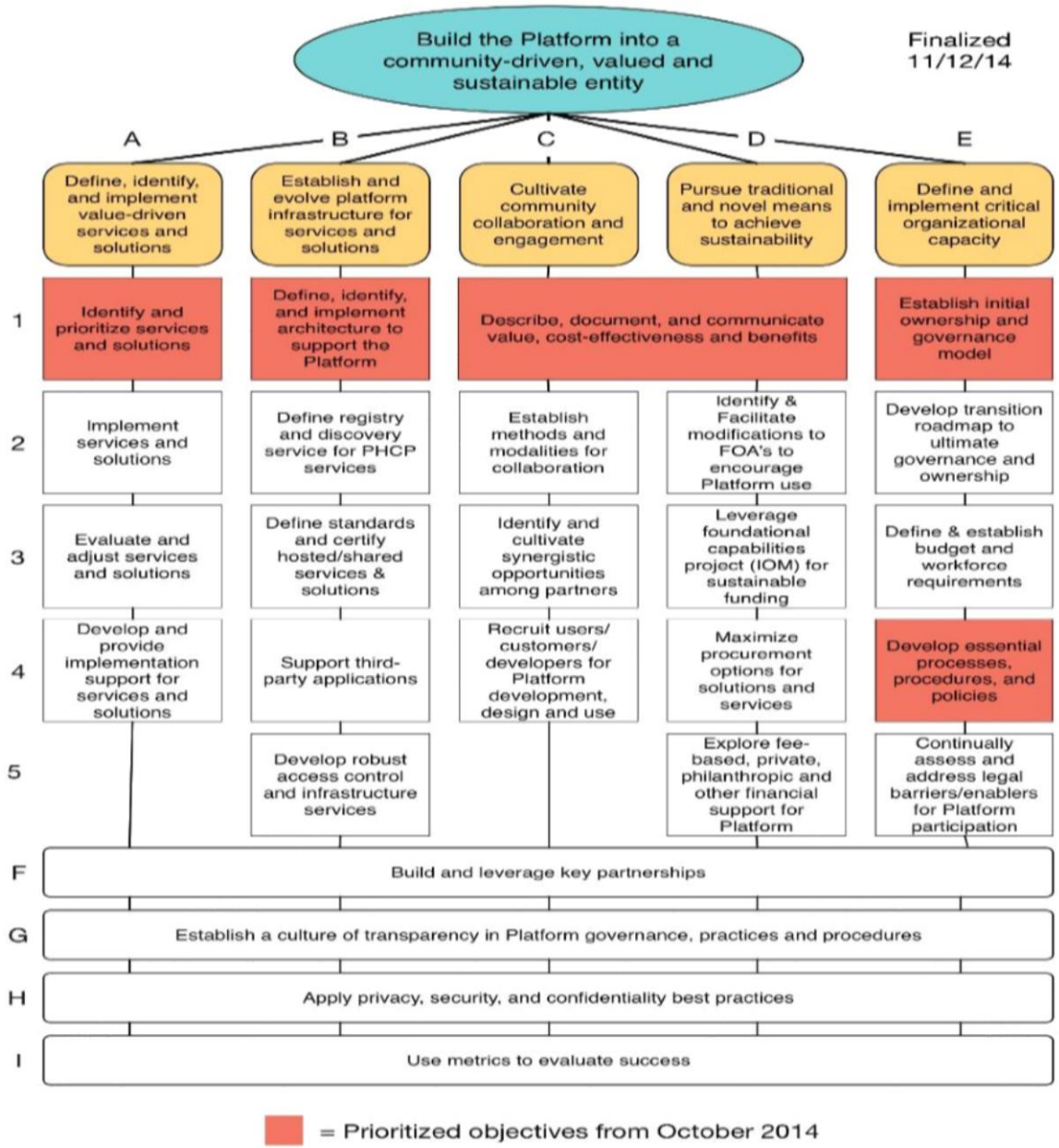
Vision:

Universal access to modernized shared resources that efficiently, securely, and collaboratively transform data into action for a healthier nation.

Mission:

Provide an accessible, flexible, and secure public health information technology platform of interoperable shared solutions governed by and responsive to the public health community that enables user-driven development, implementation, collaboration, and effective use of resources to address public health priorities.

Public Health Community Platform
Strategic Map 2014 - 2017



Steering Committee

astho
CSTE
NAPHSIS
Protecting Personal Identity
Promoting Public Health
DEPARTMENT OF HEALTH & HUMAN SERVICES USA
AIRA
AMERICAN IMMUNIZATION REGISTRY ASSOCIATION
Immunization Information Systems for a New Era
ISDS
INTERNATIONAL SOCIETY FOR DISEASE SURVEILLANCE
NASCIO
CDC
AMIA
NACCHO
PHAB
Advancing public health performance
CMS
APHL
NAHDO
The Office of the National Coordinator for Health Information Technology

Special Advisors

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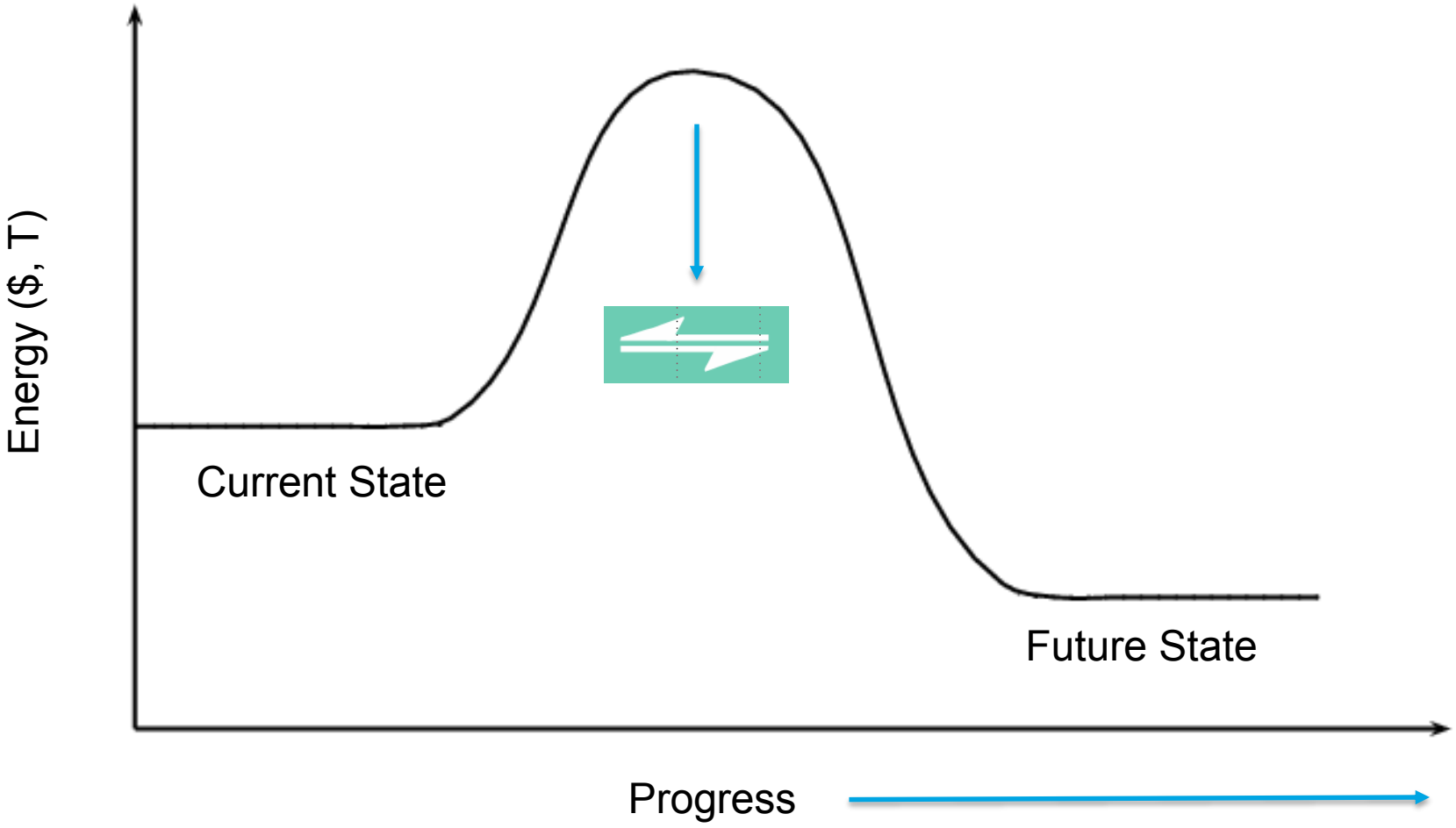
THE PUBLIC HEALTH COMMUNITY PLATFORM

Current Progress


Energy ($, T)
Current State
Future State
Progress

The Office of the National Coordinator for Health Information Technology

AIRA American Immunization Registry Association — Immunization Information Systems for a New Era

NAHDO

ISDS International Society for Disease Surveillance

Develop Efficiencies

NASCIO Representing Chief Information Officers of the States

APHL

CSTE Council of State and Territorial Epidemiologists

NACCHO National Association of County & City Health Officials

PHAB Advancing public health performance

Build Capacity

Gain Capability

astho™

CMS Centers for Medicare & Medicaid Services

NAPHSIS Protecting Personal Identity Promoting Public Health

AMIA

CDC

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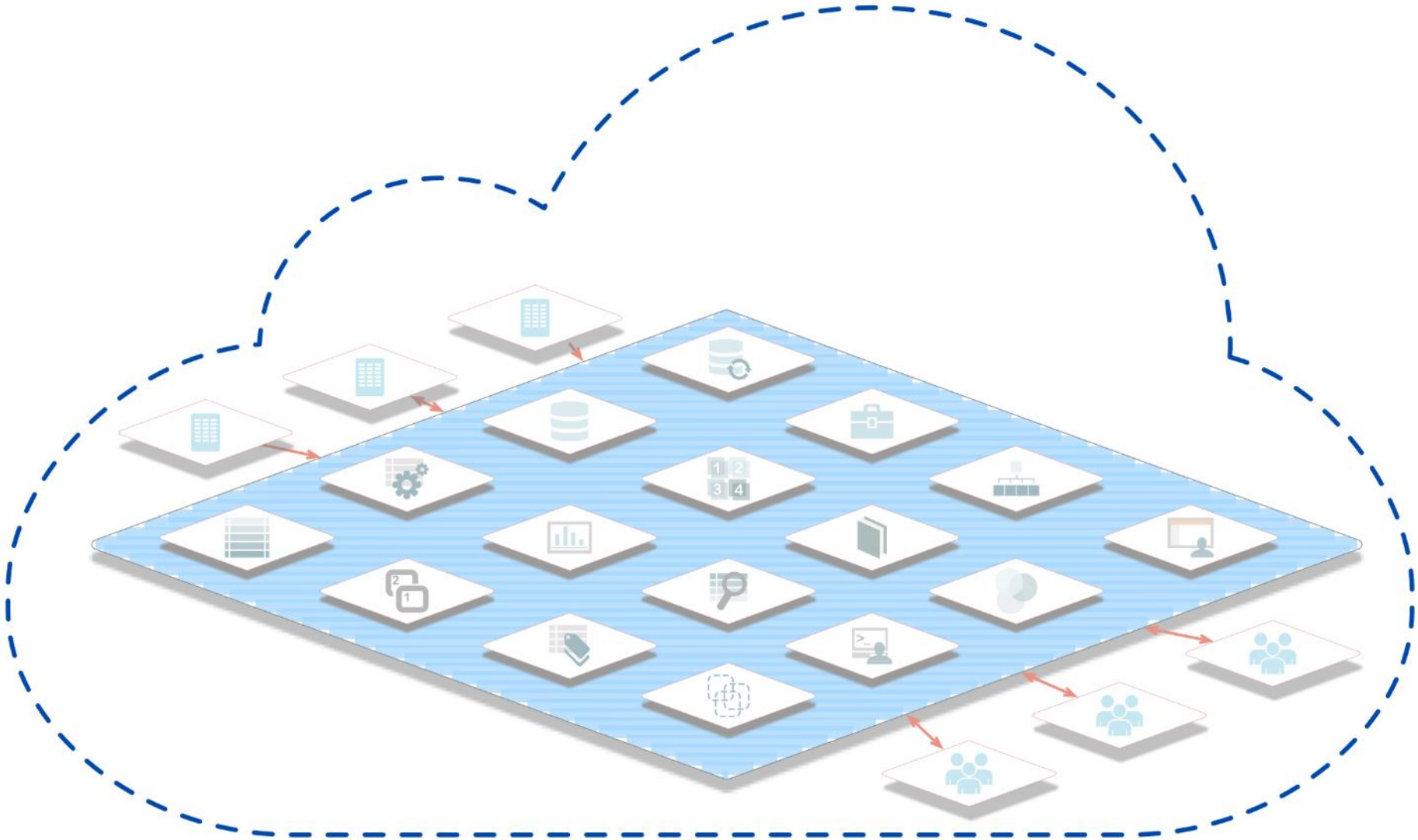
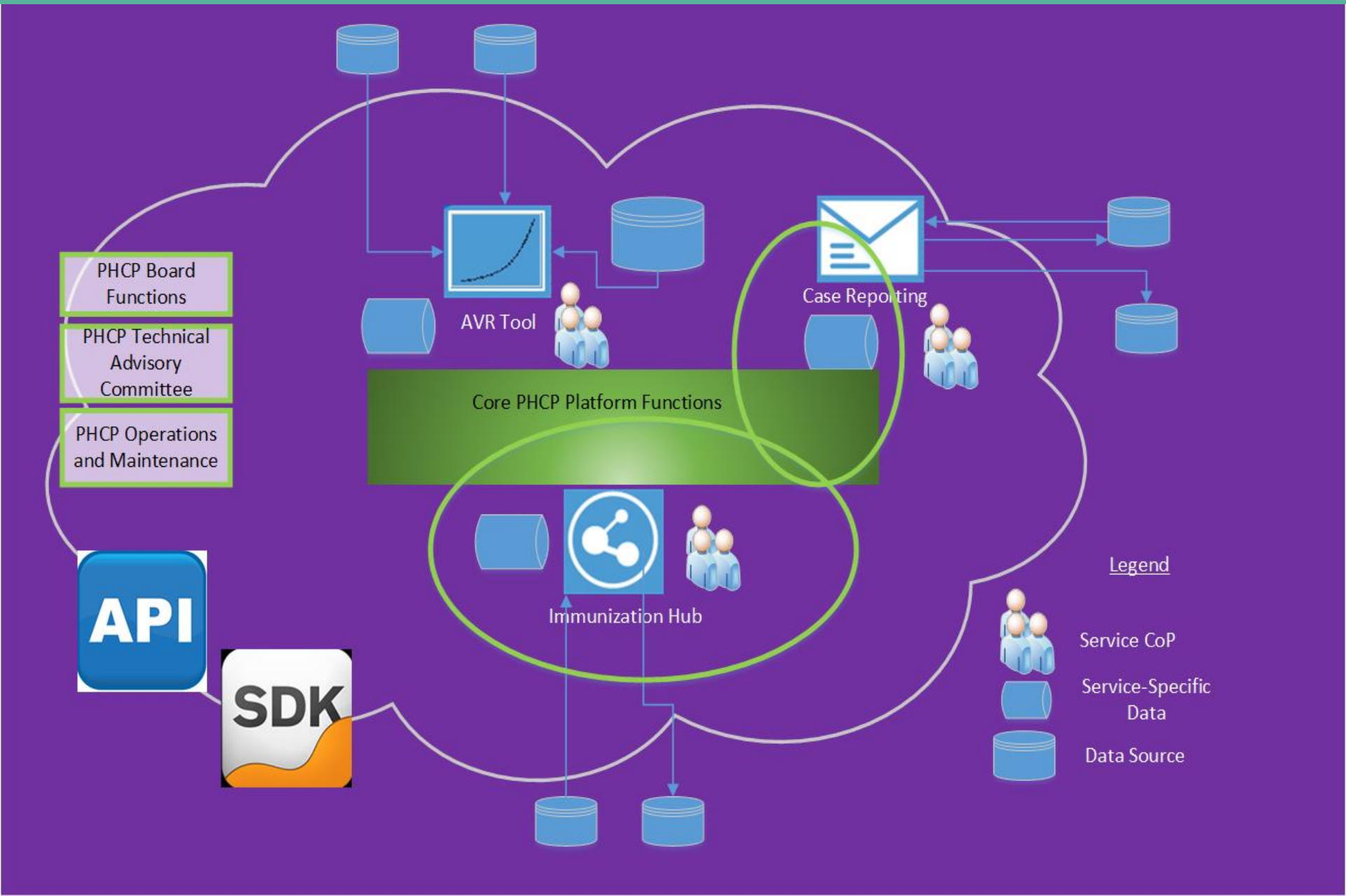


THE PUBLIC HEALTH COMMUNITY
PLATFORM



The Assessment Teams

Five teams were subcontracted to investigate the technical architecture, possible use cases, governance and sustainability, and a communication strategy.

THE PUBLIC HEALTH COMMUNITY PLATFORM

ASSESSMENT TEAMS

- Technical Architecture: MIT Lincoln Lab
- Use Case: PHII (Immunization Decision Support, CHA Gap Analysis)
  APHL (ELR Reportable Disease Trigger)
- Governance: Clinovations
- Communications: Porter Novelli

- And the Steering Committee

SC GUIDING PRINCIPLES

- Plan Broadly, Implement Incrementally
- Maintain Community Ownership
- Provide a Positive Public Health Impact

Year 2

Pilots, Business, and Communication

THE PUBLIC HEALTH COMMUNITY PLATFORM

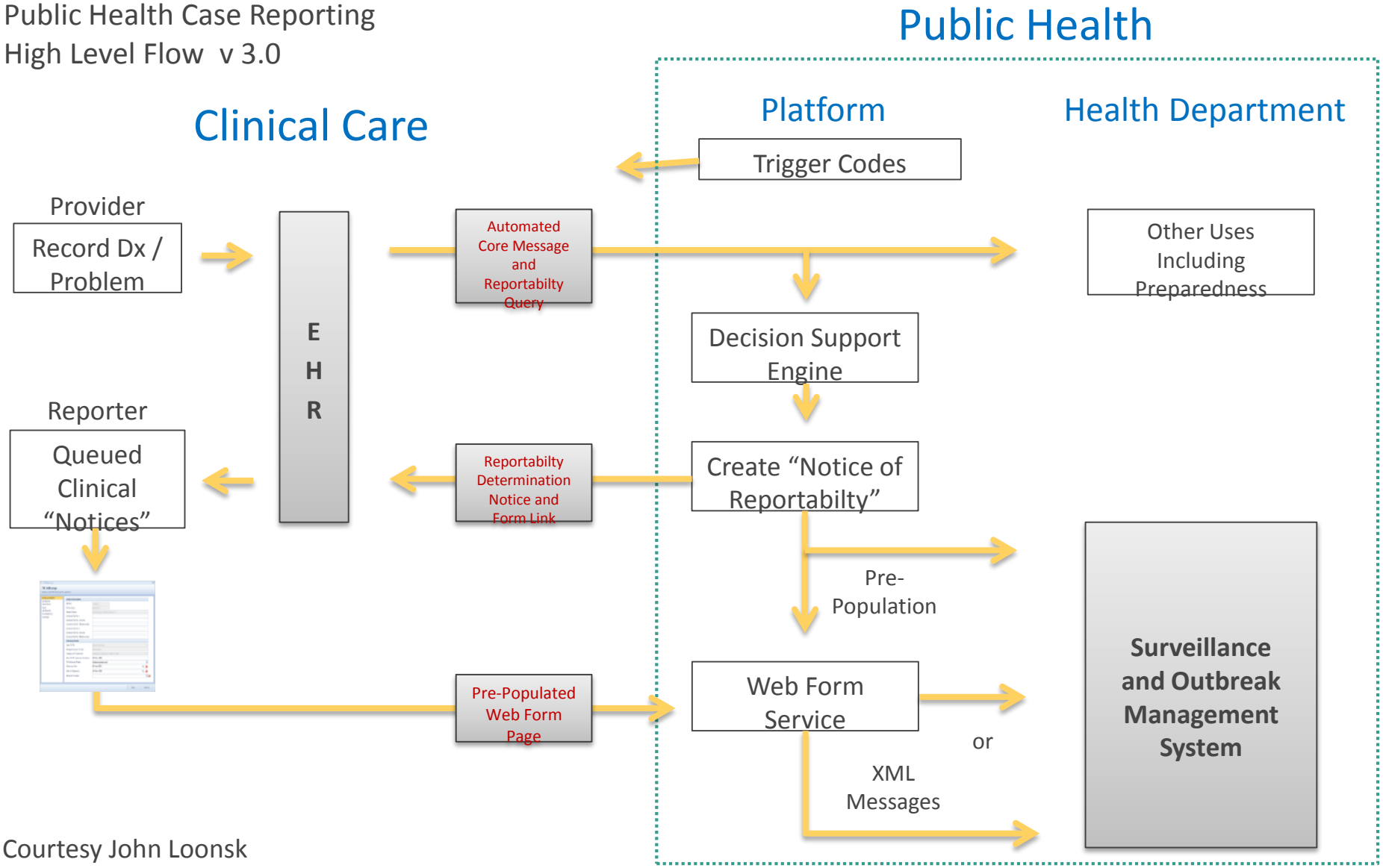
WORKGROUPS

- Case Reporting
- Immunization Hub
- Analysis & Visualization
- Governance
- Legal
- Communication

Case Reporting

Define, Identify, And Implement Value-Driven Services and Solutions

Public Health Case Reporting
High Level Flow v 3.0



Courtesy John Loonsk

Immunization

Define, Identify, And Implement Value-Driven Services and Solutions

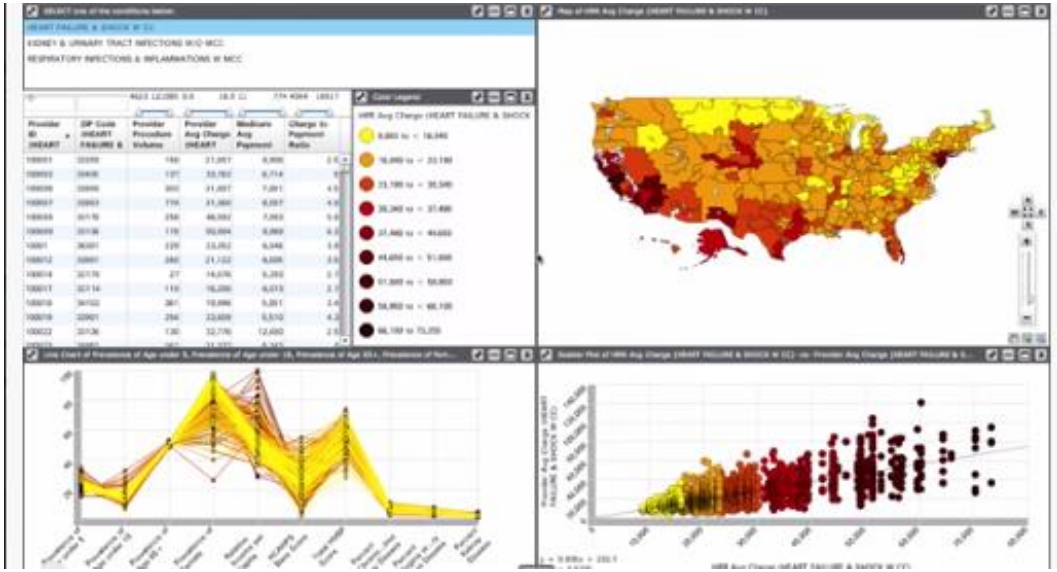
- Cross-domain work within ASTHO, AIRA, and ONC
- Solidifying the use case of data exchange between jurisdictions
  - How can this service be offered by the PHCP?
  - What are the technical/legal/business requirements to generalize the model?
  - How do the *service-specific* decision-making needs influence the overall *entity governance?*

Cultivate Community Collaboration and Engagement

Analysis and Visualization

Define, Identify, And Implement Value-Driven Services and Solutions

- Connecting multiple data types from open APIs to support Community Health Assessments
- Leveraging Weave development form UMass-Lowell
- Connecting to BRFSS data and healthindicators.gov



Cultivate Community Collaboration and Engagement

ADDITIONAL PHCP DEVELOPMENT

- Transitioning to a representative decision making body.
  - ASTHO/NACCHO co-chairs, 5 at-large members
- Future work
  - Sustainability plan
  - Evaluation
  - Prioritization

Define and Implement Critical Organizational Capacity

Pursue Traditional and Novel Means to Achieve Sustainability

Cultivate Community Collaboration and Engagement

Establish and Evolve Platform Infrastructure for Services and Solutions

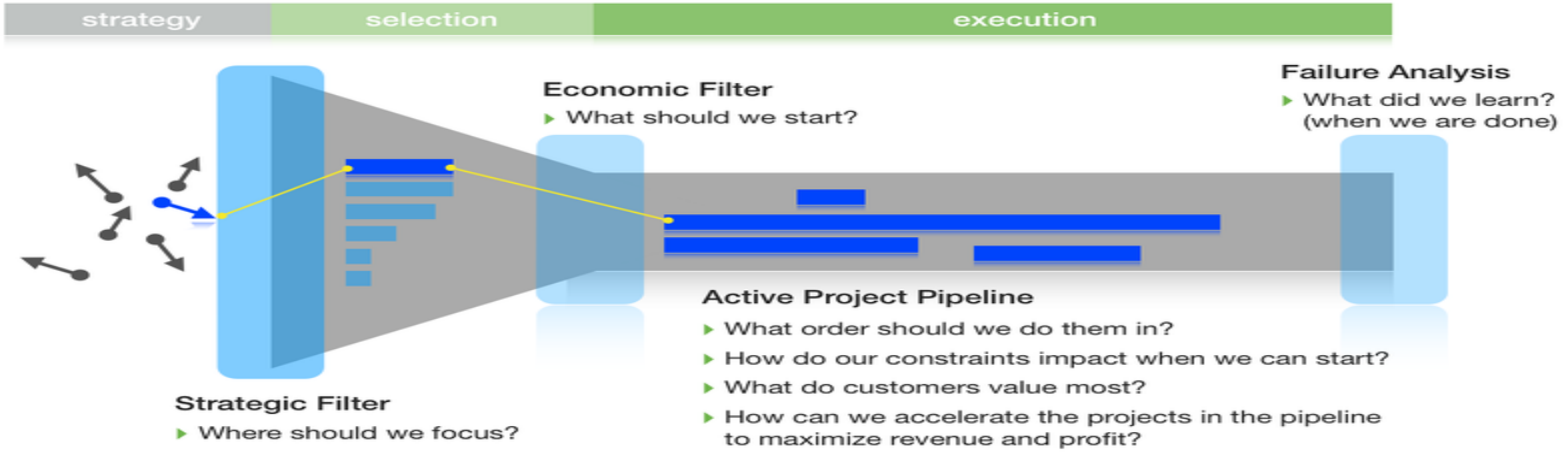
ADDITIONAL PHCP DEVELOPMENT

- Release RFI
  - Solicit information from industry leaders and SMEs to guide platform architecture development.
  - Based on initial user requirements
  - Results to inform RFP

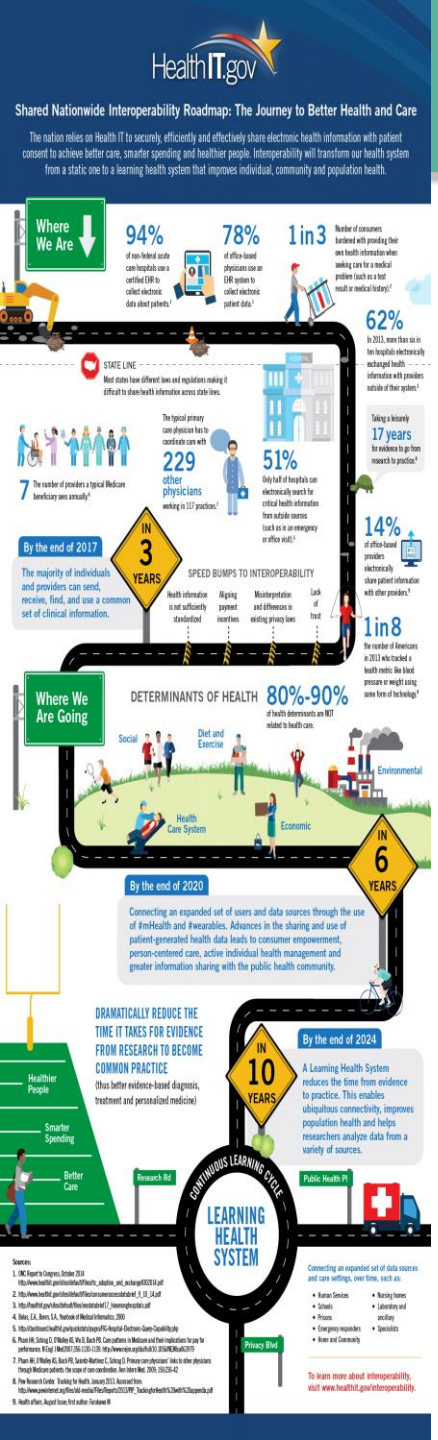
Define, Identify, And Implement Value-Driven Services and Solutions

ADDITIONAL PHCP DEVELOPMENT

- Complete use case prioritization criteria.
  - Standardized form to collect information
    - Public Health priority?
    - Leverages platform architecture?
    - Extensible functionality?
    - Funded?
  - Develop process with IEC to weight, score, prioritize



National Priorities Alignment



THE LEARNING HEALTH SYSTEM

- is "…one in which progress in science, informatics, and care culture align to generate new knowledge as an ongoing, natural by-product of the care experience, and seamlessly refine and deliver best practices for continuous improvement in health and health care."

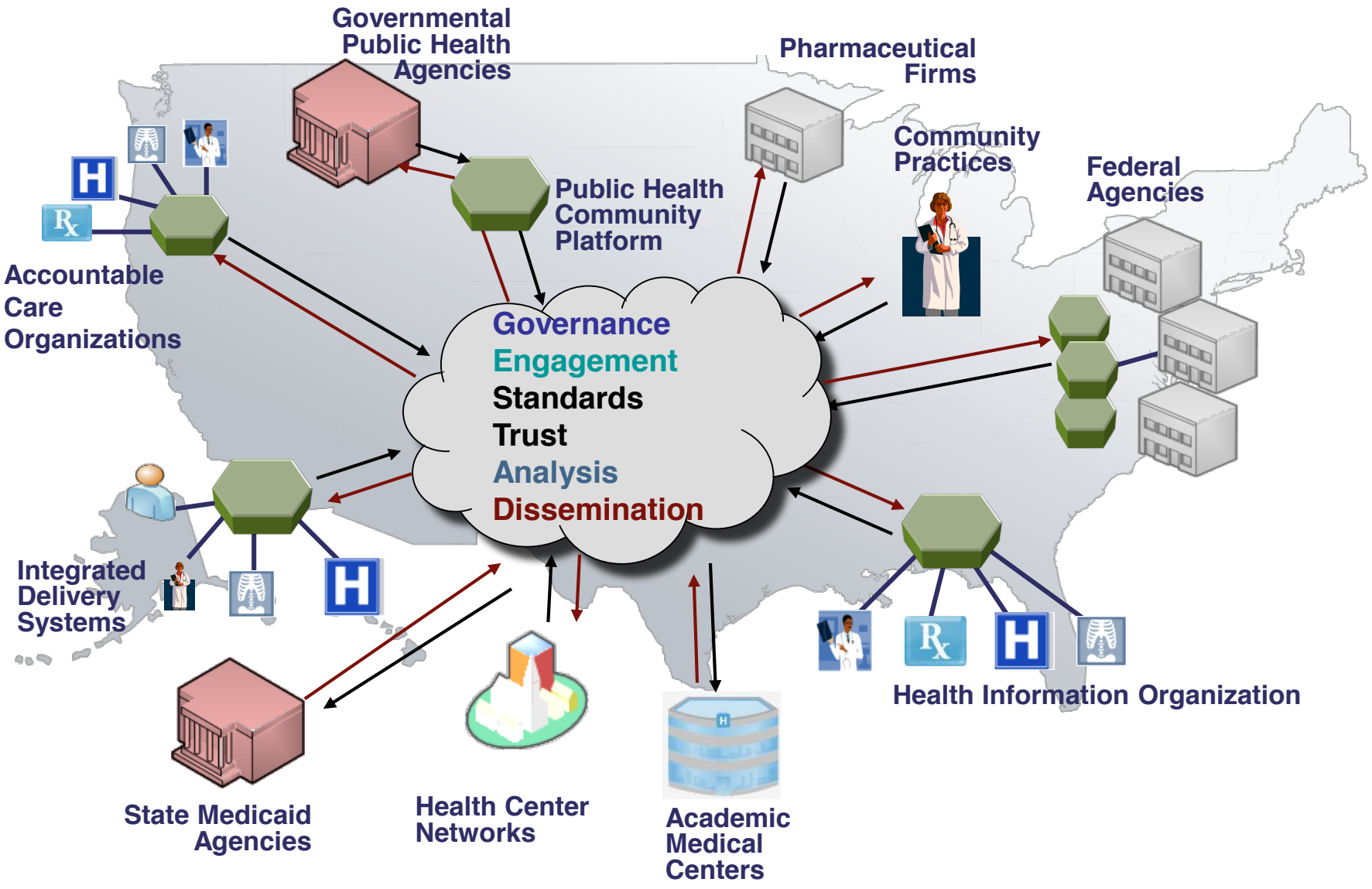
  (Institute of Medicine)

- The end point of the ONC Interoperability Roadmap
  - Better care, smarter spending, healthier people

  Healthit.gov/interoperability

THE LEARNING HEALTH SYSTEM VISION

- A federated approach – not a centralized database
- Grounded in public trust and patient engagement
- Participatory governance
- An “Ultra Large Scale” System
  - “Just enough” standardization
  - Supports innovation around standards


Governmental Public Health Agencies
Pharmaceutical Firms
Community Practices
Federal Agencies
Public Health Community Platform
Accountable Care Organizations
Governance
Engagement
Standards
Trust
Analysis
Dissemination
Integrated Delivery Systems
Health Information Organization
State Medicaid Agencies
Health Center Networks
Academic Medical Centers

LINKAGES BETWEEN LHS AND PHCP

- Alignment with standards and governance
- Help complete feedback loop from public health to clinical sector, especially for alerts and clinical decision support
- Link public health data to clinical and research data to gain new insights
- Provide services for both public health and community initiatives around assessment and planning

Future State

FUTURE STATE

- Meeting the challenges of engaging in the Learning Health System.
- Learning how to rapidly innovate and benefit from centralized development with federated deployment.
- A significant piece for public health to engage in the swiftly changing landscape.

CONTACT

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@PHCommPlatform

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