



Department of Health & Human Services
Office of the National Coordinator for
Health Information Technology

U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES
OFFICE OF THE NATIONAL COORDINATOR FOR HEALTH INFORMATION TECHNOLOGY

Standards in the National HIT Agenda

***Office of the National Coordinator for Health
Information Technology***

September 16, 2007

Standards in the National HIT Agenda

- Goals and assumptions
- Dependencies
- Process and relationships
- Role of the Nationwide Health Information Network (time permitting)

Goals and Assumptions of Standards Activities in National Agenda

- Data and technical standards for tangible interoperability
 - Driven by specific healthcare purposes (“business driven”)
 - Demonstrate reduced integration costs and increased ease of information exchange
- Standards for security and confidentiality controls
- Standards to support EHR and other application functionality are also important, but necessarily less direct

Goals and Assumptions of Standards Activities in National Agenda

- Focus on inter-organizational information flows
 - Minimal architectural determinism (e.g. enable organizations to use self-developed suites as well as commercial components)
 - Minimize “rip and replace” of existing infrastructure
- High specificity is desirable for interoperability goals, but also need minimal constraints on health business
- Can not stymie EHR adoption though an early overemphasis on structured data
 - Text and certainly text with metadata plays an important early role

Goals and Assumptions of Standards Activities in National Agenda

- Market-driven, consensus based processes generate more buy-in
 - Legislated and federally mandated standards are difficult to advance and maintain
- Standards development organizations play important roles
 - Do not want to duplicate activities
 - HITSP focus on identification of “named” standards, implementation guidance and gaps, harmonization of conflicts, coordination with SDOs
 - Encourage more SDO development and management of good implementation guidance
- Testable implementation specifications are necessary to establish interoperability

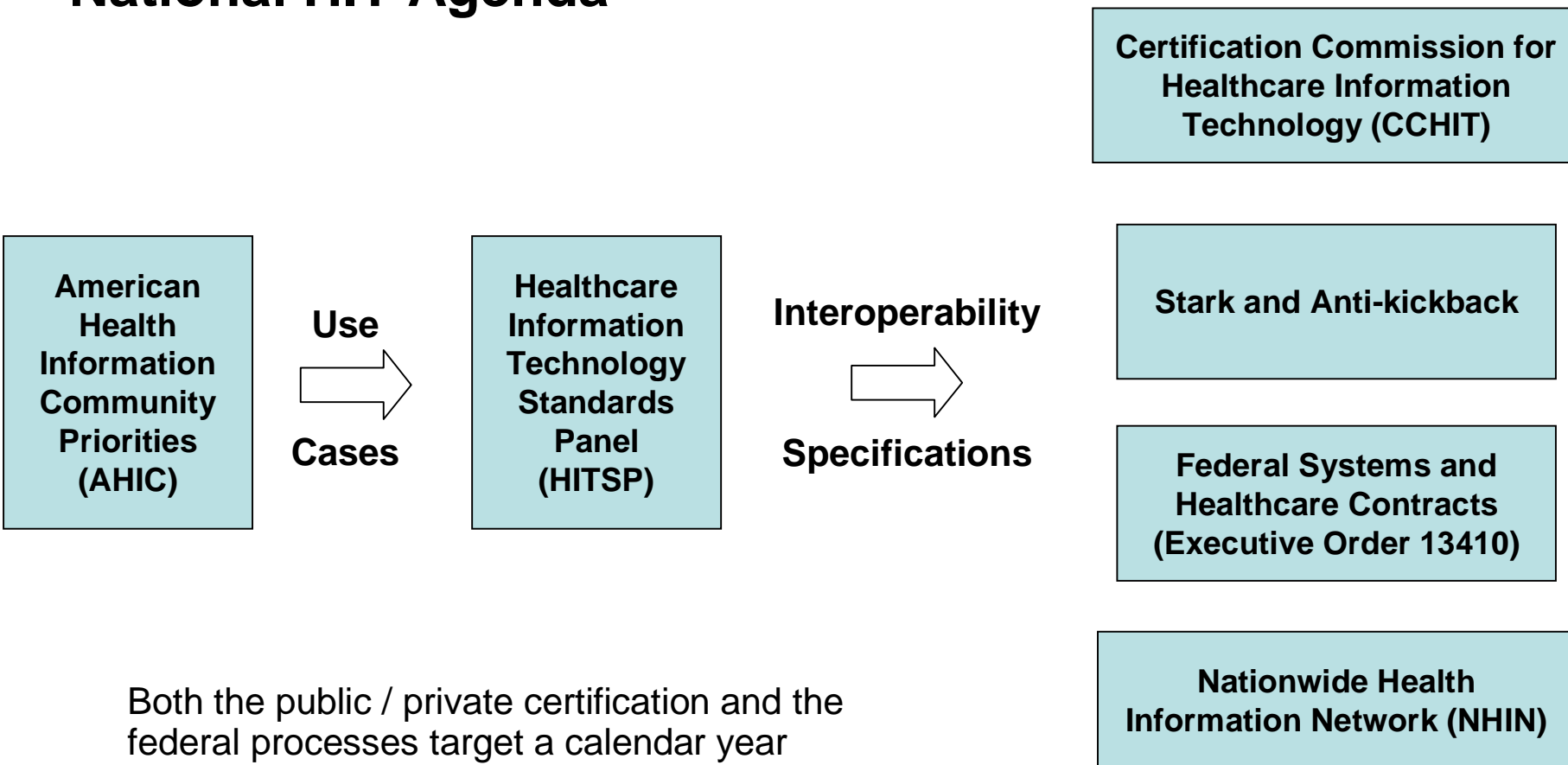
Dependencies

INTEGRATING INFORMATION TECHNOLOGY
AND BUSINESS PROCESSES



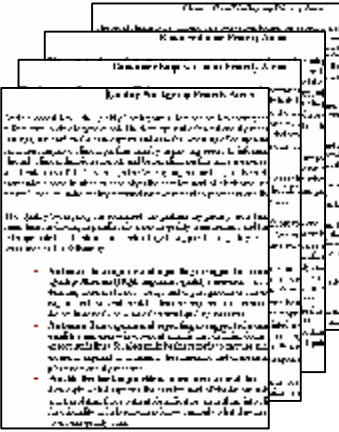
- **Testable interoperability**
 - Identified data and technical standards
 - Detailed specifications
 - Testing infrastructure
- **Identified standards and specifications**
 - Valid process for identifying “named” standards
 - Well maintained, implementation level guidance
- **Valid process for identifying standards**
 - Context for standards use
 - Multi-stakeholder process
- **Context for standards use**
 - Business priorities
 - Alignment with broader agenda

Standards in the National HIT Agenda



Both the public / private certification and the federal processes target a calendar year between the availability of standards and implementation guidance and expectations for their inclusion in systems.

AHIC Priorities into Use Cases



AHIC workgroup priorities and issues

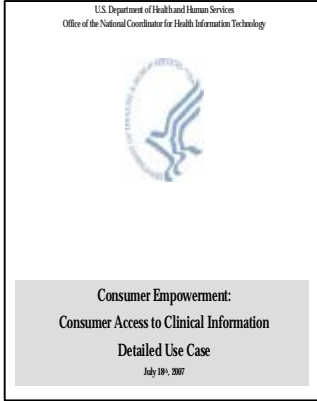
Priority Area	Clustered Areas
Consumer Empowerment	Consumer Empowerment, Consumer Access to Clinical Information
Health Information Exchange	Health Information Exchange, Interoperability
Privacy and Security	Privacy and Security, Consumer Empowerment
Healthcare Quality	Healthcare Quality, Health Information Exchange
Public Health	Public Health, Health Information Exchange
Healthcare Workforce	Healthcare Workforce, Healthcare Quality
Healthcare Costs	Healthcare Costs, Healthcare Quality
Healthcare Innovation	Healthcare Innovation, Healthcare Quality
Healthcare Access	Healthcare Access, Healthcare Quality
Healthcare Equity	Healthcare Equity, Healthcare Quality
Healthcare Safety	Healthcare Safety, Healthcare Quality
Healthcare Efficiency	Healthcare Efficiency, Healthcare Quality
Healthcare Effectiveness	Healthcare Effectiveness, Healthcare Quality
Healthcare Patient-Centeredness	Healthcare Patient-Centeredness, Healthcare Quality
Healthcare Transparency	Healthcare Transparency, Healthcare Quality
Healthcare Accountability	Healthcare Accountability, Healthcare Quality
Healthcare Collaboration	Healthcare Collaboration, Healthcare Quality
Healthcare Partnership	Healthcare Partnership, Healthcare Quality
Healthcare Leadership	Healthcare Leadership, Healthcare Quality
Healthcare Vision	Healthcare Vision, Healthcare Quality
Healthcare Mission	Healthcare Mission, Healthcare Quality
Healthcare Values	Healthcare Values, Healthcare Quality
Healthcare Principles	Healthcare Principles, Healthcare Quality
Healthcare Standards	Healthcare Standards, Healthcare Quality
Healthcare Best Practices	Healthcare Best Practices, Healthcare Quality
Healthcare Innovation	Healthcare Innovation, Healthcare Quality
Healthcare Research	Healthcare Research, Healthcare Quality
Healthcare Education	Healthcare Education, Healthcare Quality
Healthcare Training	Healthcare Training, Healthcare Quality
Healthcare Certification	Healthcare Certification, Healthcare Quality
Healthcare Accreditation	Healthcare Accreditation, Healthcare Quality
Healthcare Regulation	Healthcare Regulation, Healthcare Quality
Healthcare Enforcement	Healthcare Enforcement, Healthcare Quality
Healthcare Compliance	Healthcare Compliance, Healthcare Quality
Healthcare Monitoring	Healthcare Monitoring, Healthcare Quality
Healthcare Evaluation	Healthcare Evaluation, Healthcare Quality
Healthcare Assessment	Healthcare Assessment, Healthcare Quality
Healthcare Improvement	Healthcare Improvement, Healthcare Quality
Healthcare Innovation	Healthcare Innovation, Healthcare Quality
Healthcare Research	Healthcare Research, Healthcare Quality
Healthcare Education	Healthcare Education, Healthcare Quality
Healthcare Training	Healthcare Training, Healthcare Quality
Healthcare Certification	Healthcare Certification, Healthcare Quality
Healthcare Accreditation	Healthcare Accreditation, Healthcare Quality
Healthcare Regulation	Healthcare Regulation, Healthcare Quality
Healthcare Enforcement	Healthcare Enforcement, Healthcare Quality
Healthcare Compliance	Healthcare Compliance, Healthcare Quality
Healthcare Monitoring	Healthcare Monitoring, Healthcare Quality
Healthcare Evaluation	Healthcare Evaluation, Healthcare Quality
Healthcare Assessment	Healthcare Assessment, Healthcare Quality
Healthcare Improvement	Healthcare Improvement, Healthcare Quality

Priorities and areas clustered for coordination and synergy



Use case options for AHIC prioritization

Public Feedback



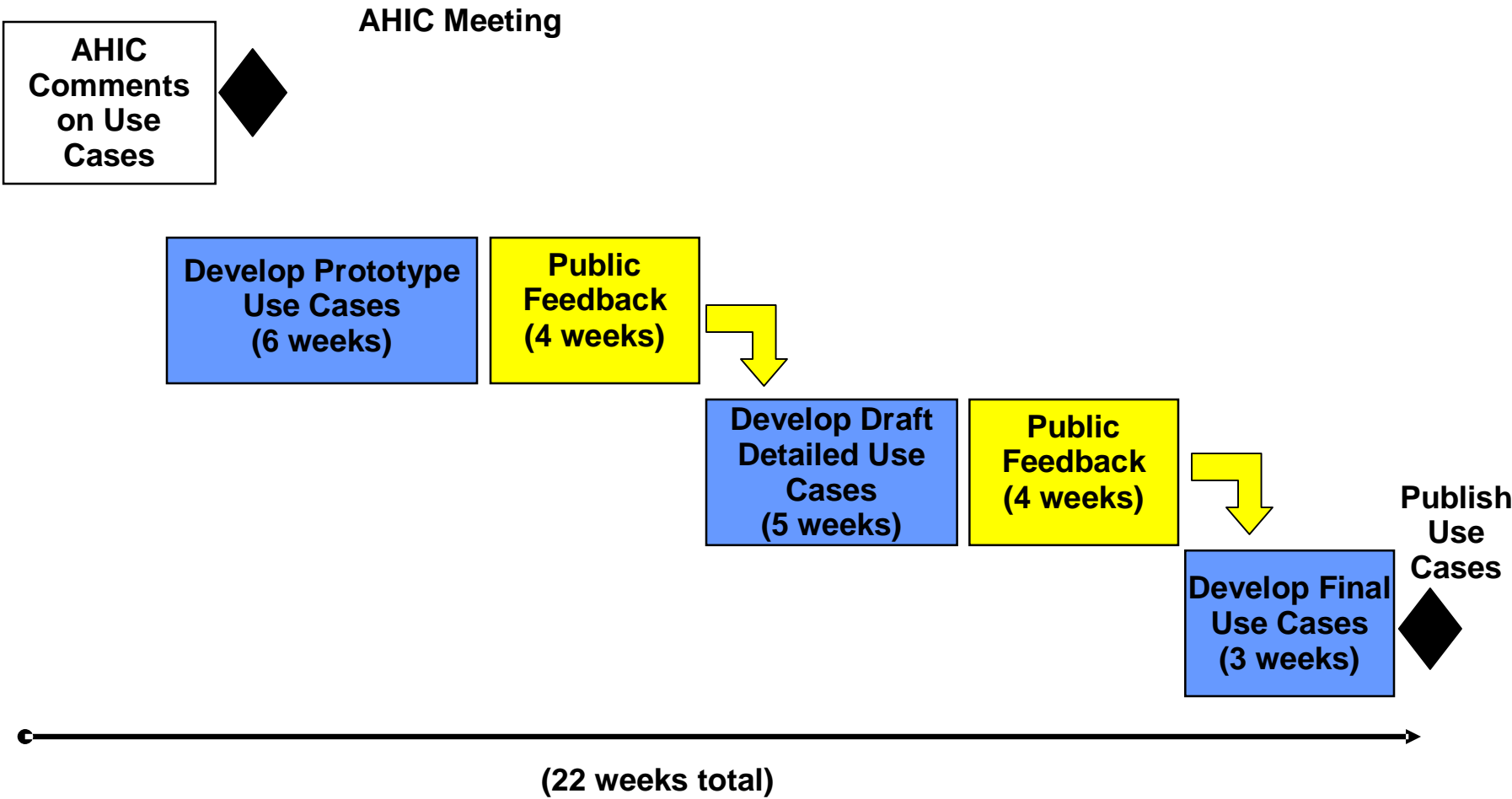
Prototype Use Case

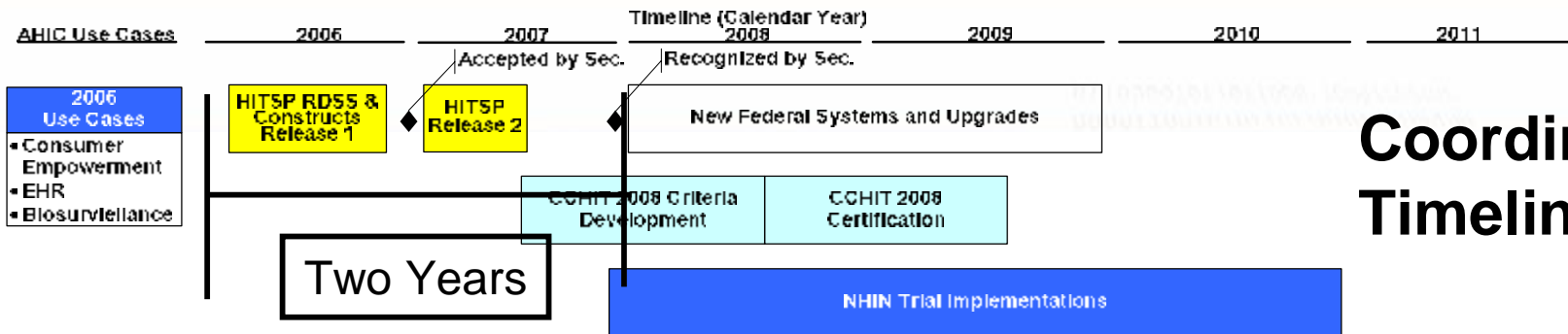
Public Feedback



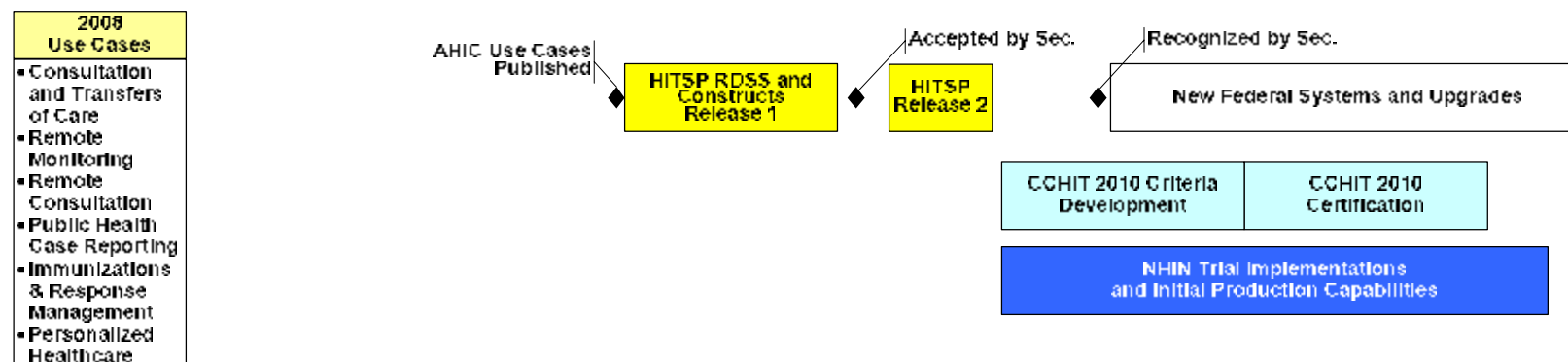
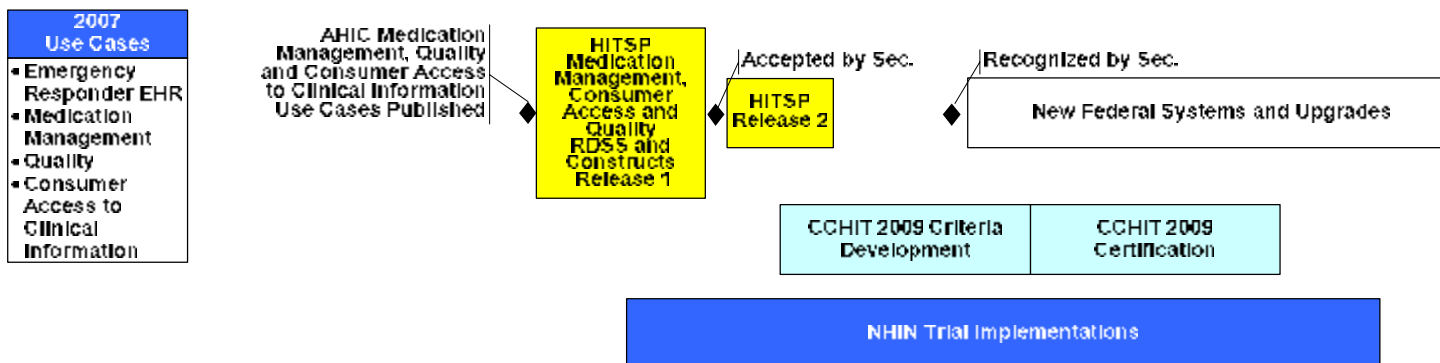
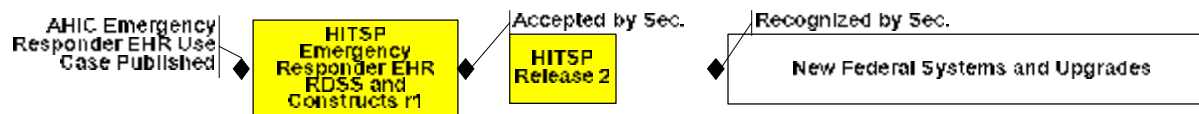
Detailed Use Case

Use Case Development Timeline





Coordinated Timeline



Refining the “cycle”

- HITSP and CCHIT will present on the specifics and refinements of their processes
- AHIC use cases to be delivered in December - availability of priorities is no longer a time dependency
- HITSP – CCHIT joint working group working on coordination between organizations
- CCHIT and HITSP priorities in AHIC process to help ensure that process priorities are part of AHIC consideration
- HITSP / CCHIT / NHIN “Roadmap Standards” process to provide intermediate guidance for pressing needs



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Nationwide Health Information Network

“Trial Implementations”

***Office of the National Coordinator
for Health Information Technology***



Nationwide Health Information Network Initiative

From the National HIT Agenda:

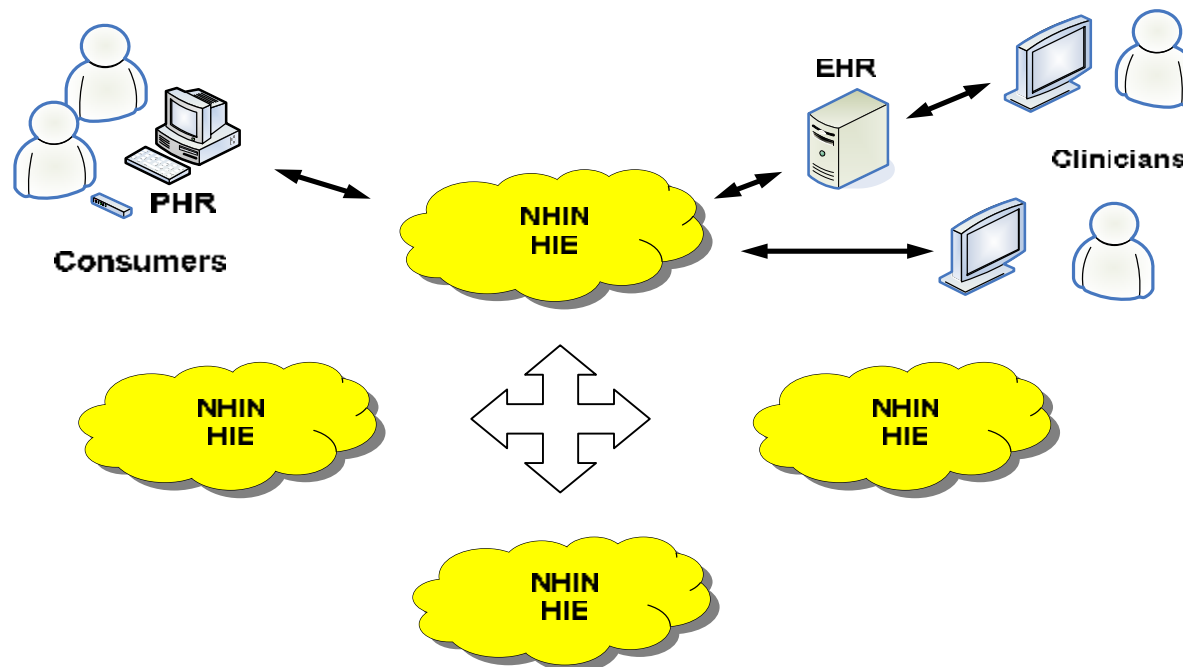
- ...foster widely available services that facilitate the accurate, appropriate, timely, and secure exchange of health information
- ...information that follows the consumer and supports clinical decision making

The Nationwide Health Information Network

A network of networks

- Connect:
 - Providers (EHR's)
 - Consumers (PHR's)
- Interconnect:
 - State, regional, and non-geographic health information exchanges
 - Networks oriented to specific functions
- Provide a secure foundation for growth and innovation

The Nationwide Health Information Network



- Built from state and regional Health Information Exchanges (HIEs)
- NHIN – moves data when a patient moves, but more critically, all movement through the availability of standards, specifications and health information services

The Nationwide Health Information Network

NHIN Working Assumptions

- a 'network of networks'
- securely connects consumers, providers and others who have, or use, health-related data
- no national data store or centralized systems at the national level
- no national patient identifier
- shared architecture (standards, services, and requirements), processes and procedures
 - A foundation to support clinical care, consumer, public health, quality and other specific endeavors

NHIN Trial Implementations Scope

NHIE Core Services

- Data Services
 - Including summary record exchange
- Consumer Services
- User and Identity Management Services
- Management Services

Breakthrough / Use Cases

- Consumer Empowerment - Registration and Medication History
- EHR – Labs
- Biosurveillance
- Emergency Responder EHR
- Consumer Access to Clinical Information
- Medication Management
- Quality

Example NHIE Core Services

- **Key Data Services**
 - Data delivery
 - Summary record exchange
 - Patient look-up in an NHIE and between NHIE's
 - Supporting access to data for secondary uses
- **Key User and Identity Management Services**
 - User identity proofing, authentication and authorization or attest for connected organizations
 - Identity adjudication between NHIEs
- **Key Management Services**
 - System and trusted user protection
 - Emergency access (individual and community)

Example NHIE Core Services

BY JOSEPHINE HALLINAN, MD, MHA
DEPUTY DIRECTOR FOR POLICY & STRATEGY

Key Consumer Services

- Identify a personal health record home
- Be supported in getting data there
- Search for other places where data about them exists
- Control who can access their personal health record
- View who has accessed their PHR or made NHIE look-ups and how their data may have been disclosed
- Send change requests to data providers when they think the data are wrong
- Choose to *not* use network services

Select NHIN Trial Implementations Deliverables

- Interface specifications for core services and use case capabilities (with HITSP)
- Data use and reciprocal support agreements for trial implementations
- Testing material and scenarios
- “Cooperative exchange testing”
- Demonstration of capabilities
- Evaluation of activities



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