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

Nationwide Health Information Network Third Public Forum

Prototypes and Business Models

John W. Loonsk, M.D.
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Agenda

- Nationwide Health Information Network
  - Where we are
  - Where we are going
- Forum Agenda
  - Demonstrations
  - Business models

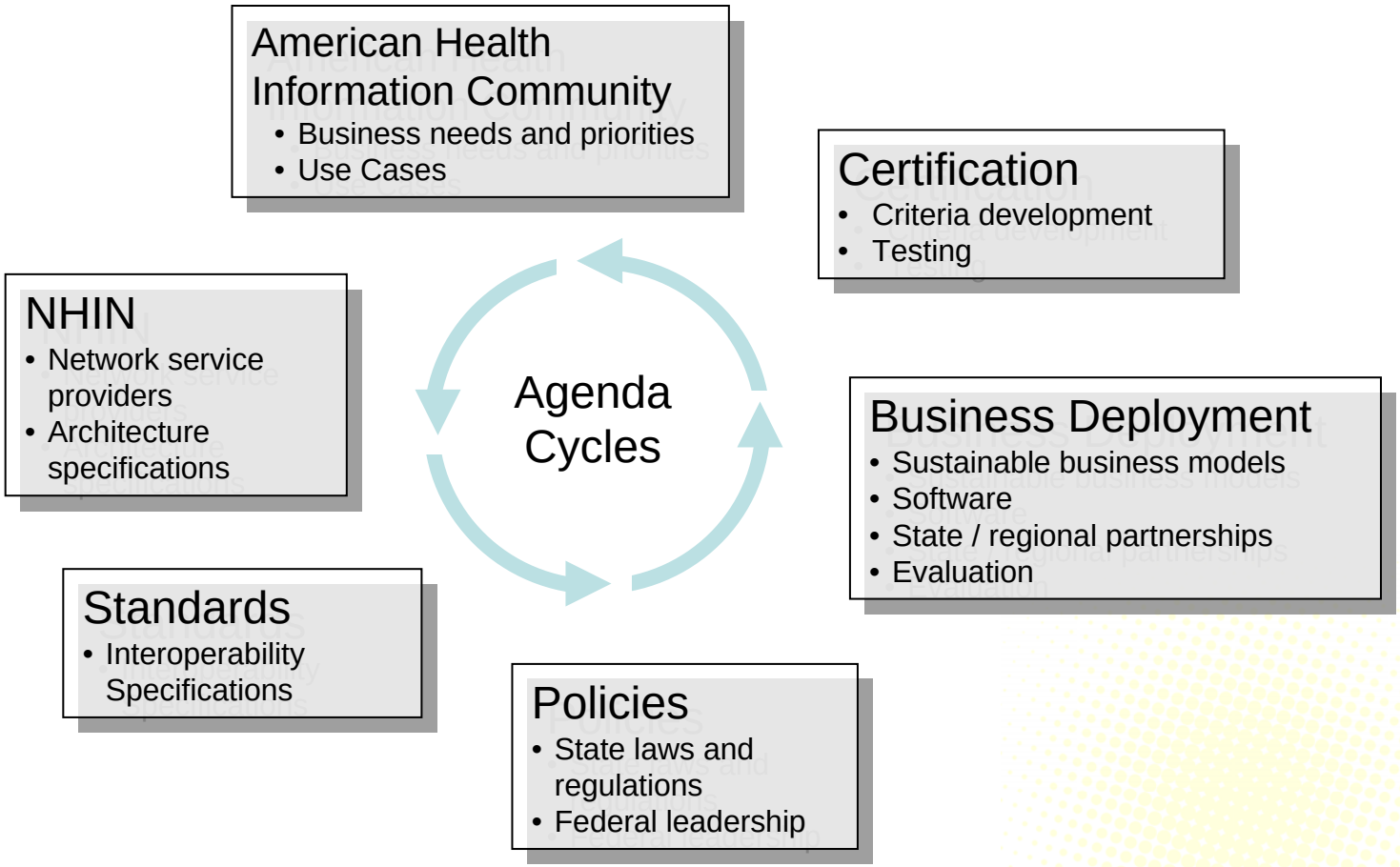
Nationwide Health Information Network Initiative

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 NHIN and the National Health IT Agenda

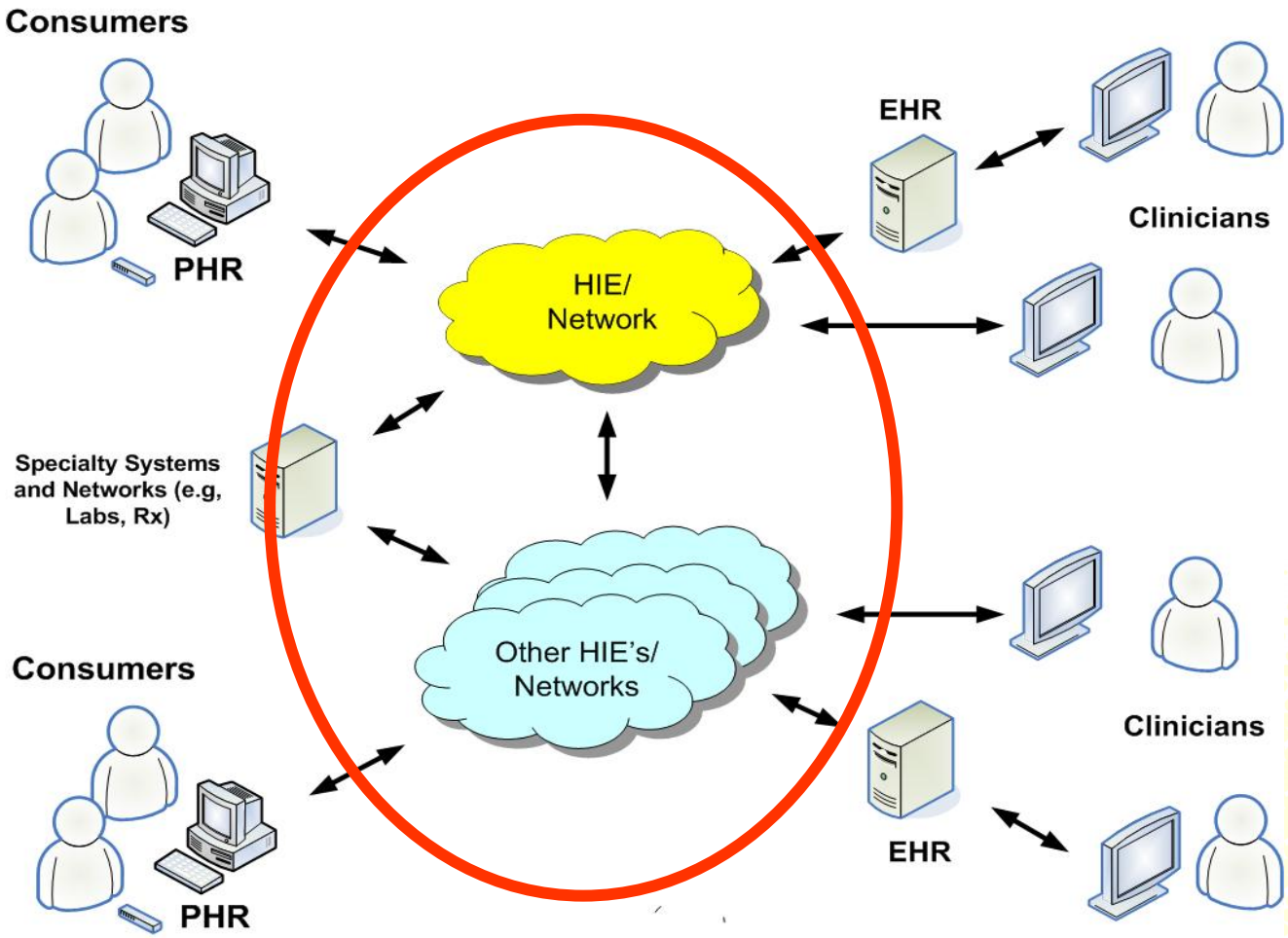


A Common Inter-Network Architecture

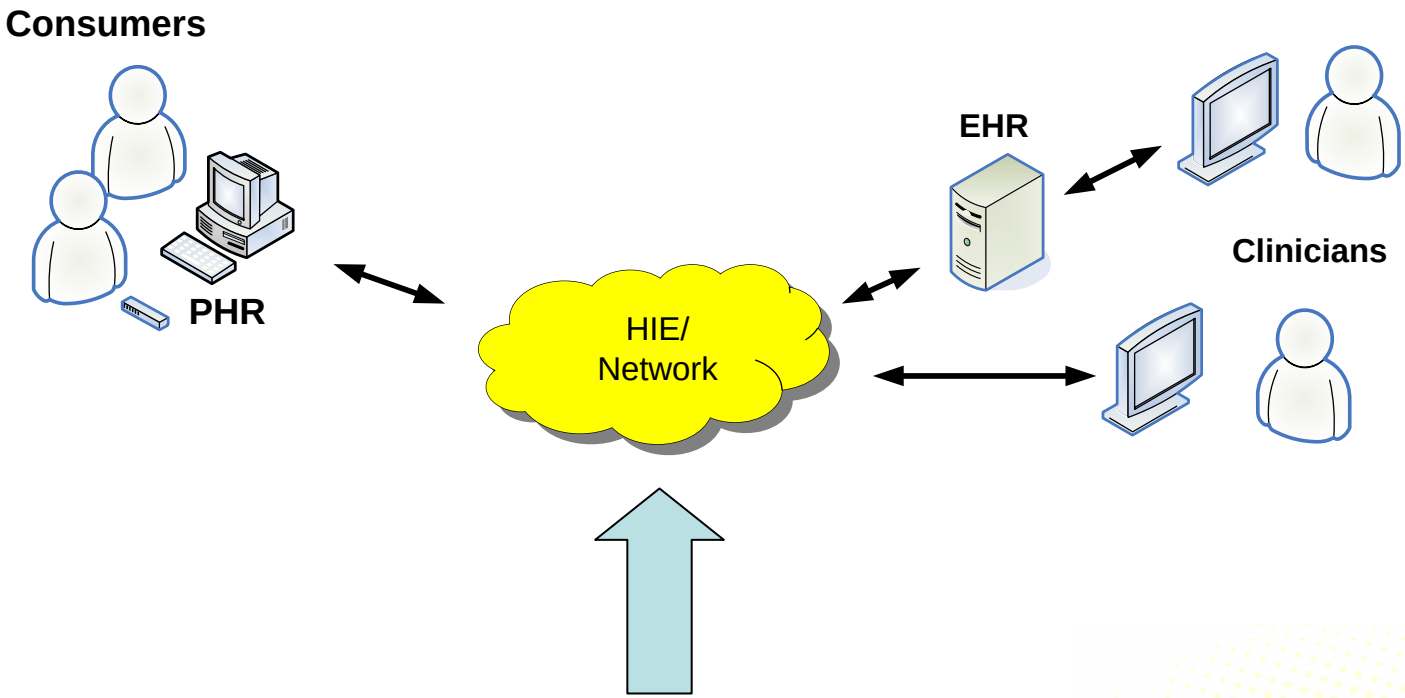
A network of networks

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

Network of Networks

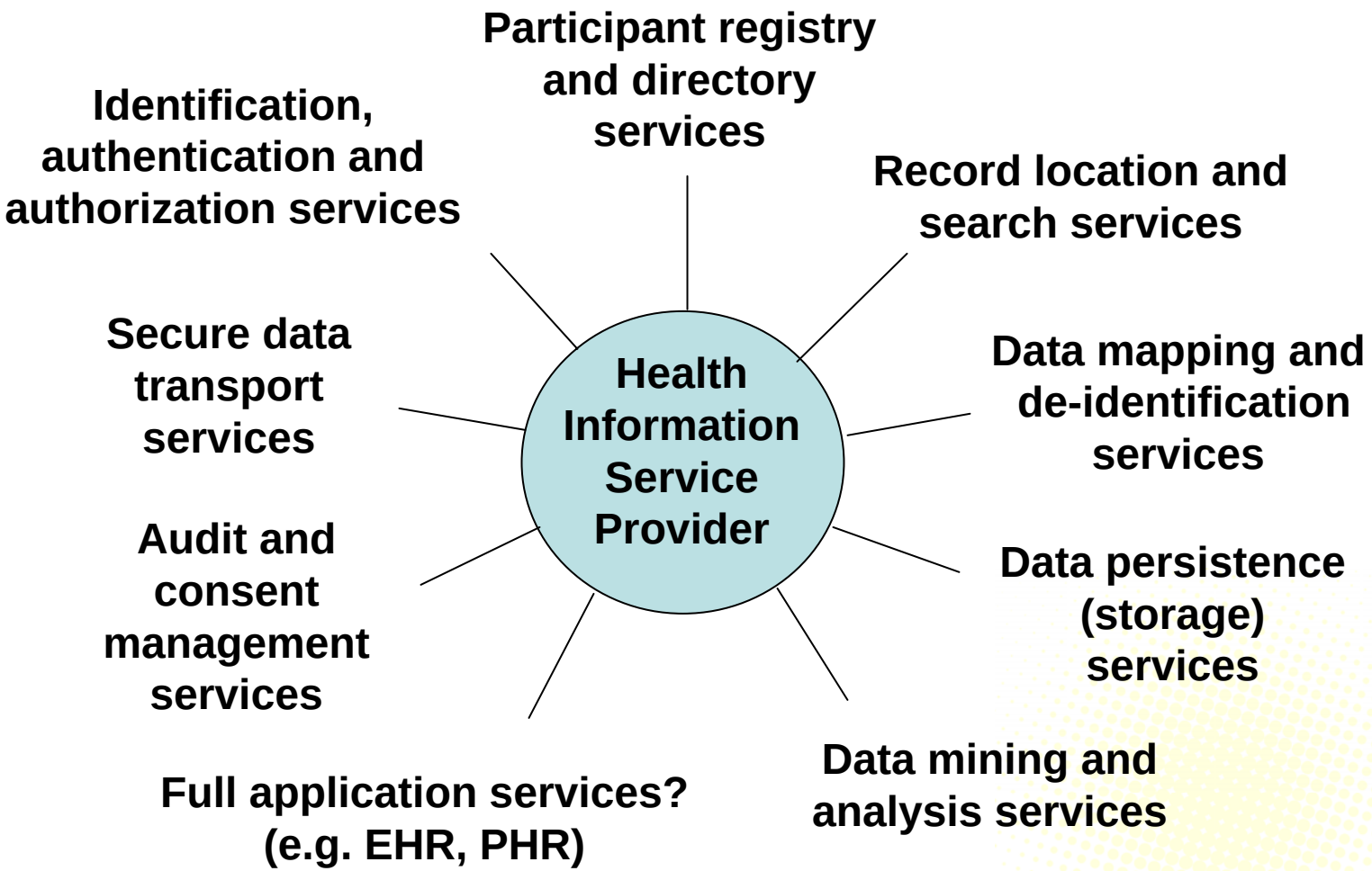


Health information service providers



Software and systems → Health information service provider

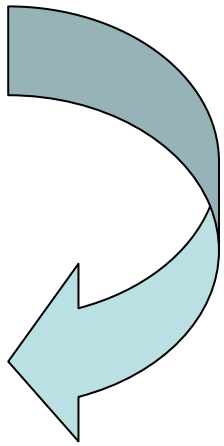
Health information service provider - services



“Steps” to the NHIN

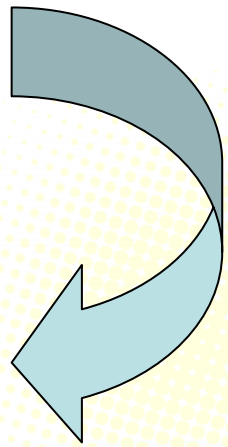
NHIN vision and breakthroughs / use cases

- Initial architecture
  - Validating prototypes
    - Standards needs
      - Policy implications



More business needs / use cases

- Refined architecture
  - Trial implementations
    - Standards needs
      - Policy implications
        - » Certification criteria



More business needs / use cases

- Initial NHIN Services
  - …

2006 Products become 2007 Guidance

- Standards
  - Three HITSP Interoperability Specifications
  - 30 standards and over 800 pages of implementation guidance
- Security models and considerations
  - Prototype architectures
  - National Committee on Vital and Health Statistics recommendations
  - AHIC Confidentiality, Privacy and Security WG recommendations
- Public input and discussion
  - NHIN Forum #1 - Functional Requirements
  - NHIN Forum #2 - Security and Services
  - NHIN Forum #3 - Prototypes and Business Models

2006 Products become 2007 Guidance (Use Cases)

Consumer

Existing Use Cases

- Consumer Empowerment - Registration and Medication History

New Use Case

- **Consumer Access to Clinical Information**

Provider

Existing Use Cases

- EHR – Labs

New Use Case

- **Emergency Responder EHR**
- **Medication Management**

Population

Existing Use Cases

- Biosurveillance

New Use Case

- **Quality**

2006 Products become 2007 Guidance

- Functional requirements
  - Consortia and National Committee on Vital and Health Statistics
- Certification Criteria and Testing
  - Ambulatory Care
  - Inpatient
  - Network
- Business models
  - Cost and revenue
  - Deployment
  - Operations
- Gartner report on technical architectures
  - March 2007
  - Focus on common interfaces

Elements of the health information exchange challenge

- Engage providers and systems
- Advance HIT adoption
- Involve consumers
- Provide security
- Have open “governance”
- Establish trust
- Develop sustainable funding
- Provide capable business services and operations
- Develop technical capabilities and operations

2007 – “Trial Implementations”

- Next “step” to this formula
- Bring together:
  - 2006 Products
  - Technical expertise and accomplishments of the consortia
  - State and regional health information exchanges
  - Focus on interfaces:
    - Between health information service providers
    - Linking health information service providers and provider organizations/systems
    - With specialty networks and systems
    - To government health systems
  - A collaboration of awardees
- RFP available in March/April
- Awards made in June/July

Demonstration Objectives / What to Expect

- NHIN Prototype architectures
  - Core network services
  - Consumer Empowerment
  - Electronic Health Record
  - Biosurveillance
- Put a “face” on NHIN and breakthroughs
  - Asked to use live or test systems - not simulations
  - Specificity and possibilities
- Prototypes represent part of the NHIN effort
  - Software validation of the architectures
  - “Applications” are not the architectures

Key Issues In the Demonstrations

- Connection of commercial and “tethered” PHR’s to the NHIN
- Opportunities for consumer management of PHR data
- Consideration for how consumer’s could manage the exchange of data on the NHIN
- Needs for tracking providers associated with patients
- Routing of lab data to the appropriate EHR
- Portal and EHR based retrieval of historical results
- Notifications of when new data are available
- Result routing to “non-ordering” providers of care
- Comparability of data across provider sites

Forum Agenda - Thursday

Opening Plenary

Introduction to Consortia Prototype Demonstrations

Prototype Demonstrations

Accenture

Northrop Grumman

Lunch

Prototype Demonstrations

Computer Sciences Corporation

IBM

Informal, interactive demonstration sessions with the Consortia (4 concurrent sessions)

Forum Agenda - Friday

Business Model Plenary Session

- Overview and Context of Business Models for NHIN
- Consortia Presentations of Business Models
- Business Models from the State/Regional Health Information Exchange Perspective
- Reactor Panel

Closing Remarks