

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

NCVHS

Subcommittee on Standards

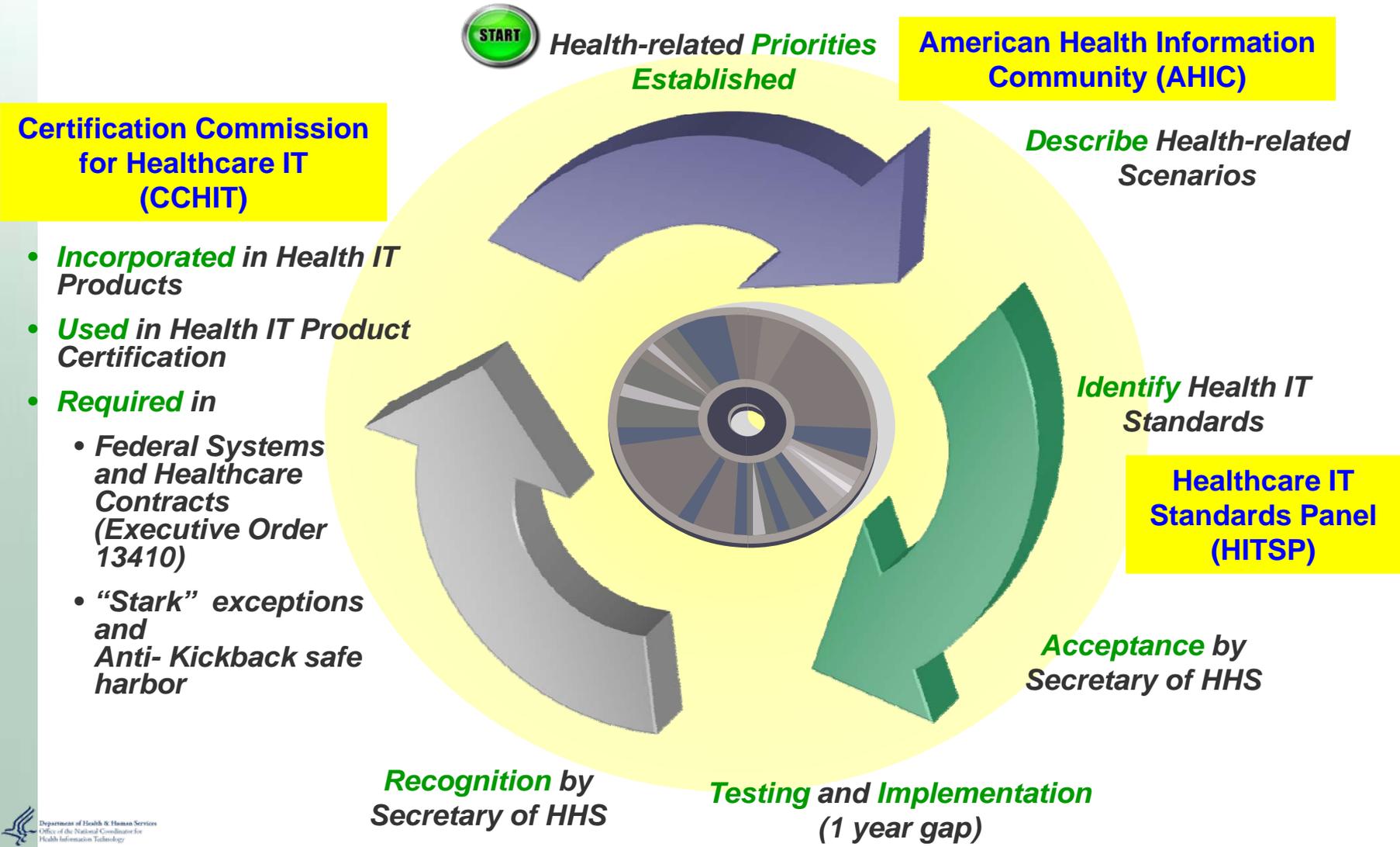
Setting the Context for the Evolution of Health IT Standards

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Interoperability Standards into Products – Summary of the Cyclical Process



AHIC Priorities and Use Case Roadmap

		AHIC Priorities and Use Case Roadmap				2009 Use Case		
		2006	2007 Use Cases	2008 Use Cases		2009 Use Case Ext/Gaps		
Consumer		Consumer Empowerment <ul style="list-style-type: none"> • Registration • Medication History 	Consumer Access to Clinical Information <ul style="list-style-type: none"> • Access to Clinical Data • Provider Permissions • PHR Transfer 	Remote Monitoring <ul style="list-style-type: none"> • Remote Monitoring of Vital Signs and Labs (Glucose) 	Patient – Provider Secure Messaging <ul style="list-style-type: none"> • Structured email • Reminders 	Newborn Screening		
	Provider		EHR (Lab) <ul style="list-style-type: none"> • Laboratory Result Reporting 	Emergency Responder EHR <ul style="list-style-type: none"> • On-Site Care • Emergency Care • Definitive Care • Provider Authentication and Authorization 	Medication Management <ul style="list-style-type: none"> • Medication Reconciliation • Ambulatory Prescriptions • Contra-indications 	Consultations and Transfers of Care <ul style="list-style-type: none"> • Referrals • Problem Lists • Transfer of Care 	Personalized Healthcare <ul style="list-style-type: none"> • Laboratory Genetic / Genomic Data • Family Medical History 	General Laboratory Orders
			Biosurveillance <ul style="list-style-type: none"> • Visit • Utilization • Clinical Data • Lab and Radiology 	Quality <ul style="list-style-type: none"> • Hospital Measurement and Reporting • Clinician Measurement and Reporting • Feedback to Clinicians 	Public Health Case Reporting <ul style="list-style-type: none"> • Case Reporting • Bidirectional Communication • Labs • Adverse Events 	Immunizations & Response Management <ul style="list-style-type: none"> • Resource Identification • Vaccine • EHR Data 	Medication Gaps	
							Common Device Connectivity	
Population						Clinical Encounter Notes		
						Order Sets		
						Scheduling		
						Common Data Transport		
						Consumer Preferences		
						Medical Home: Co-Morbidity and Registries		
						Maternal and Child Health		
						Long Term Care - Assessments		
						Prior Auth for Treatment, Payment, & Operations		
						Consumer AE Reporting		

January 2009: Interoperability Standards Accepted by Secretary Leavitt

- **Updates to Existing Interoperability Specifications:**
 1. Biosurveillance (IS02)
 2. Consumer Empowerment and Access to Clinical Information via Networks (IS03)
 3. Emergency Responder Electronic Health Record (IS04)
 4. Consumer Empowerment and Access to Clinical Information via Media (IS05)

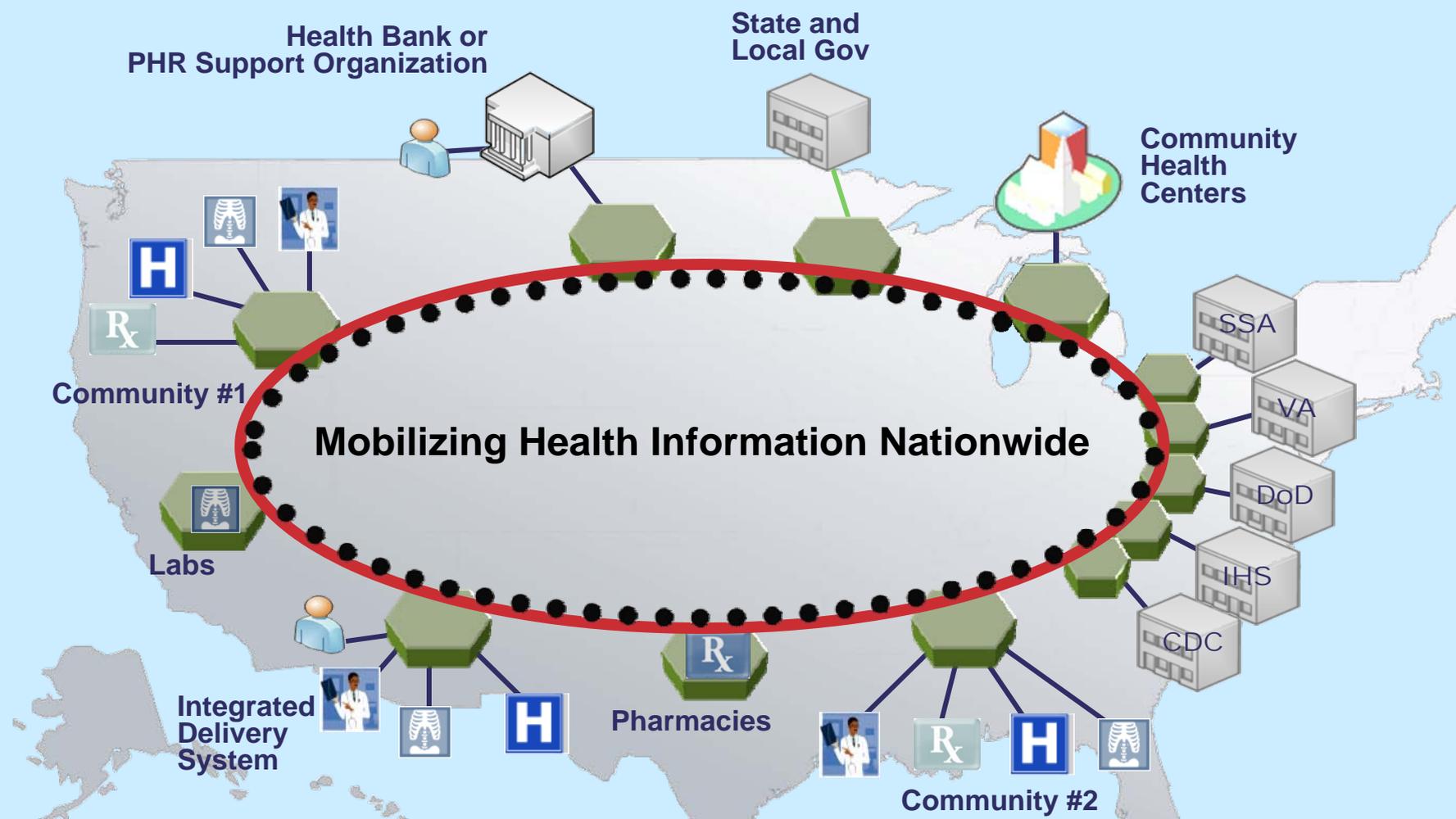
– *plus referenced Constructs and Selected Standards*

January 2009: Interoperability Standards Accepted by Secretary Leavitt

- **New Interoperability Specifications:**
 1. Medication Management (IS07)
 2. Personalized Healthcare (IS08)
 3. Consultations and Transfers of Care (IS09)
 4. Immunizations and Response Management (IS10)
 5. Public Health Case Reporting (IS11)
 6. Patient-Provider Secure Messaging (IS12)
 7. Remote Monitoring (IS77)

– *plus referenced Constructs and Selected Standards*

The Nationwide Health Information Network



— The Internet

..... Standards, Specifications and Agreements for Secure Connections

Different “Network” Models

Network Type	Examples	Benefit	Challenge
Organizational	Integrated delivery systems, hospital chains	Effort of exchanging data internally is aligned with business outcomes	Extra-organizational exchange
Geographic	RHIOs, geographic HIEs	Support non-proprietary exchange	Achieving sustainable business models
Personally Controlled	Personally Controlled Health Record Support Organizations	Consumer access to, and control of, health information	Consumer and provider acceptance

NHIN Roadmap



- Evaluated technical approaches
- Demonstrated four prototypes in January 2007

- Formed NHIN Cooperative
- Implemented Core NHIN Services and selected Use Cases
- Completed 2 Public Demonstrations
- Hosted 3 Public Fora

- 2009 Focus
- General Production Readiness
- Limited production pilots

NHIN 2008 Results

- **Demonstrated Technical Capability**
- **Created Initial Interoperable Specification Set**
- **20+ disparate organizations participating in the NHIN Cooperative**
- **Laid foundation for usage agreements**
- **Completing Trial Implementations**
- **Preparations for limited production in 2009**

NHIN Cooperative Participants

- **CareSpark**
- **Centers for Disease Control and Prevention**
- **Cleveland Clinic**
- **Community Health Information Collaborative**
- **Delaware Health Information Network**
- **Department of Defense**
- **Department of Veterans Affairs**
- **HealthBridge**
- **HealthLINC**
(Bloomington Hospital)
- **HealthLink RHIO**
(Wright State University)
- **Indian Health Service**
- **Inland Northwest Health Services** *(through CDC HIE contract)*
- **Kaiser Permanente**
- **Long Beach Network for Health**
- **Lovelace Clinic Foundation**
- **MedVirginia**
- **New York eHealth Collaborative**
- **National Cancer Institute**
- **North Carolina Healthcare Information and Communications Alliance**
(NCHICA)
- **Regenstrief Institute**
(Indiana University)
- **Social Security Administration**
- **West Virginia Health Information Network**

Successful NHIN “Trial Implementation” Demonstration - September 2008

Exchanged “Summary Record” among 19 different organizations

- **Part 1: Supporting the Patient**

- Emergency care
- Transfer of care
- Wounded Warrior



- **Part 2: Supporting the Consumer**

- The Work of the Cooperative
- Supporting Consumer Preferences



- **Part 3: Innovative Business Use**

- Innovative Business Opportunity



TITLE XIII—HEALTH INFORMATION TECHNOLOGY

SEC. 13001. SHORT TITLE; TABLE OF CONTENTS OF TITLE.

(a) **SHORT TITLE.**—This title (and title IV of division B) may be cited as the “Health Information Technology for Economic and Clinical Health Act” or the “HITECH Act”.

(b) **TABLE OF CONTENTS OF TITLE.**—The table of contents of this title is as follows:

Sec. 13001. Short title; table of contents of title.

Subtitle A—Promotion of Health Information Technology

PART 1—IMPROVING HEALTH CARE QUALITY, SAFETY, AND EFFICIENCY

Sec. 13101. ONCHIT; standards development and adoption.

“TITLE XXX—HEALTH INFORMATION TECHNOLOGY AND QUALITY

“Sec. 3000. Definitions.