



HITSP

Healthcare Information Technology Standards Panel

HealthTechNet – May 15th, 2009

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The Panel's Purpose

To harmonize and integrate diverse **standards** that will meet clinical and business needs for sharing information among organizations and systems.

- ❑ Establish HITSP Interoperability Specifications and promote their acceptance;
- ❑ Support the deployment and implementation of HITSP Interoperability Specifications across the health care enterprise;
- ❑ Facilitate the efforts of standards developing organizations to maintain, revise or develop new standards as required to support the HITSP Interoperability Specifications.

Harmonized standards promote interoperability, enhance healthcare quality and contain costs



Standards Harmonization Goals



To achieve interoperability, harmonization must be achieved in 5 areas:

- ❖ ***Context/Information Model*** – establishing a common reference information model to support clinical, public health, financial, and administrative healthcare functions
- ❖ ***Terminology/Content Definition*** – establishing common reference terminology models and data content specifications that are integrated with the information model
- ❖ ***Privacy and Security*** – establishing a common security framework
- ❖ ***Methodology*** – establishing a common methodology/process that all standards organizations and code set maintainers will follow to achieve standards harmonization
- ❖ ***Information Exchange*** – establishing a common information interchange format and standards-based application roles and interactions in a comprehensive dynamic model



HITSP and Its Stakeholders - Harmonizing and Integrating Standards To Meet Clinical and Business Needs

Patients

Specialists

Review Boards

**Outpatient
Healthcare
Providers**

Consumers

Payers

**Practice
Guidelines**

Providers

Employers

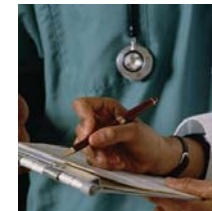
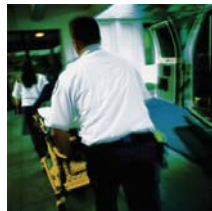
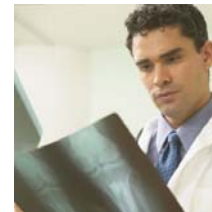
Suppliers

**Residential
Care Providers**

**Government
Agencies**

**General
Practitioners**

Hospitals



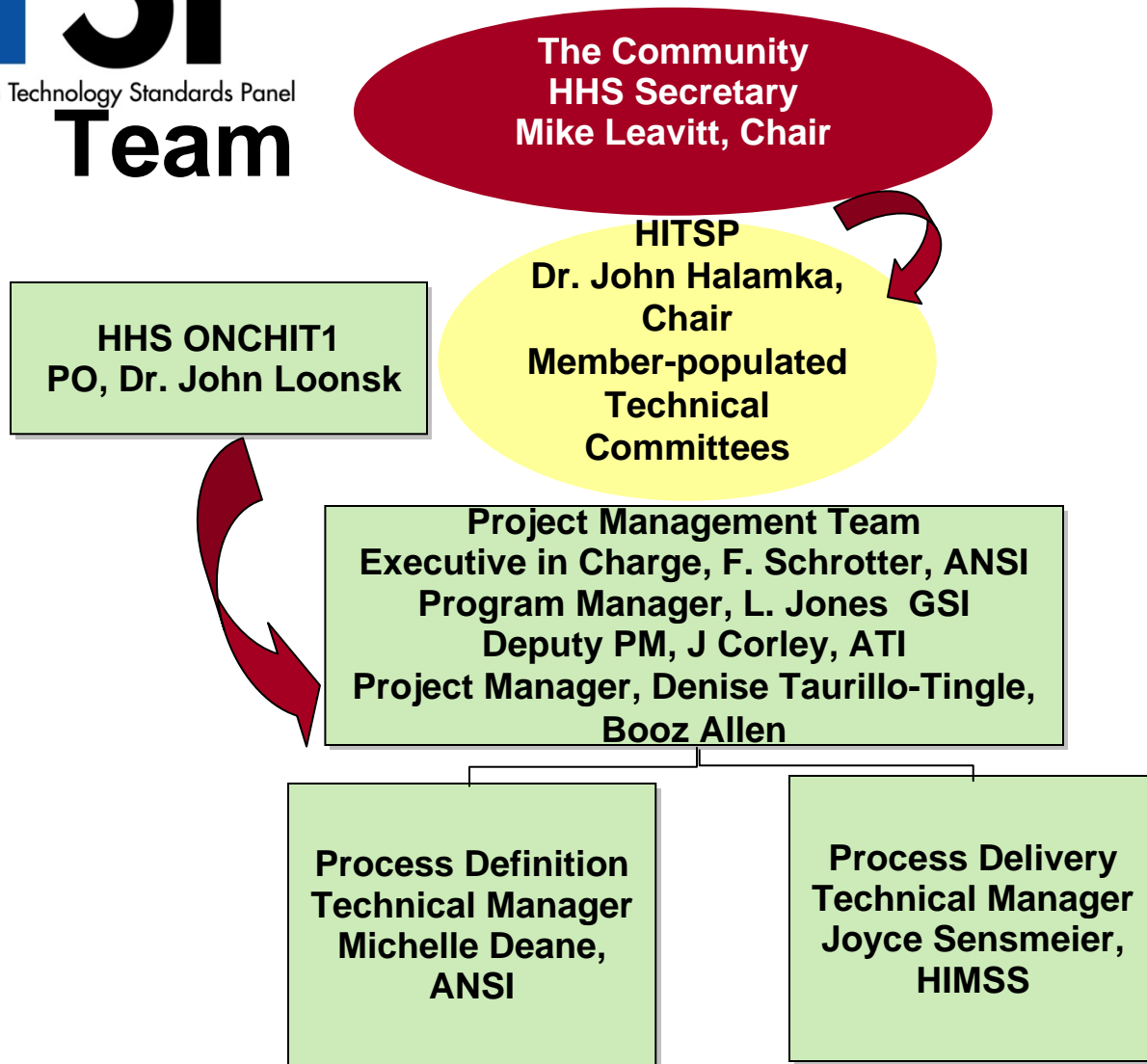
HITSP - volunteer-driven, consensus-based organization funded by the Department of Health and Human Services.



HITSP

Healthcare Information Technology Standards Panel

Team



Federal Agencies must use the Recognized Interoperability Standards that have been harmonized by the Healthcare Information Technology Standards Panel

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

Office of the National Coordinator for Health Information Technology (ONC), DHHS

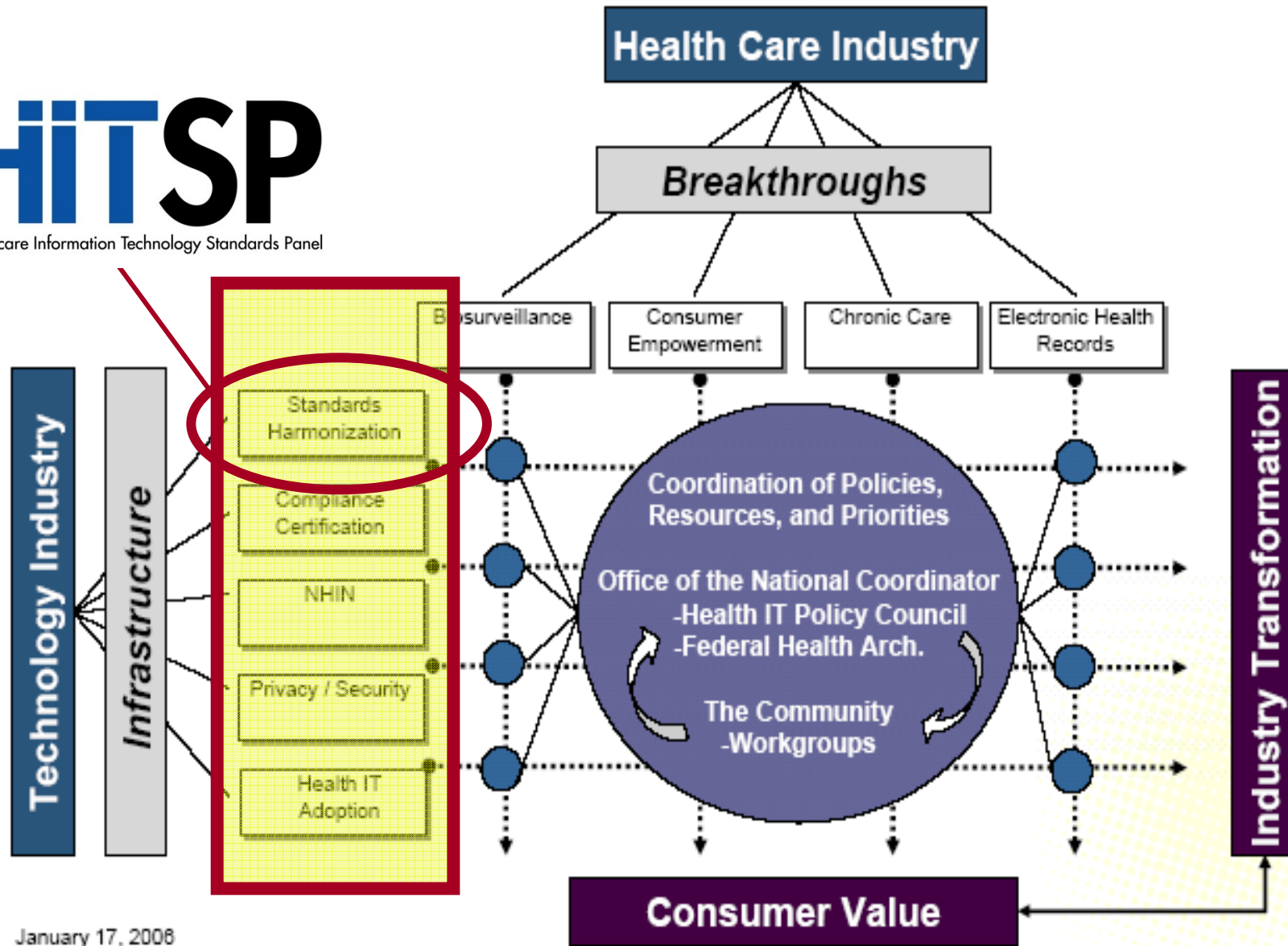
Notice of Availability: Secretarial Recognition of Certain Healthcare Information Technology Standards Panel (HITSP) Interoperability Specifications as Interoperability Standards for Health Information Technology

HITSP is playing an integral role in the development of a Nationwide Healthcare Information Network (NHIN) for the United States



HITSP

Healthcare Information Technology Standards Panel



January 17, 2006



HITSP Standards Harmonization



1. Identify a pool of standards for a general breakthrough area
2. Identify gaps and overlaps for specific context
3. Make recommendations for resolution of gaps and overlaps
4. Develop **Interoperability Specifications** for using the selected standard(s) for a specific context
5. Test the instruction for using the standard



Team Organization & Governance

Tiger Teams for Required Deliverables

- ❑ Creating the EHR-Centric “light-weight” IS based exclusively on existing constructs and selected standards
- ❑ Creating the Security, Privacy, and Infrastructure Service (Suite)
- ❑ Continuing Quality Measures project, based on IS06
 - Note - **only** effort expected to continue as an ongoing TC effort
 - Crucial to meeting basic objective of improved quality and efficiency



Team Organization & Governance

More Details on Required Deliverables

- Creating the EHR-Centric “light-weight” IS based exclusively on existing constructs and selected standards
 - Prototyping the new process for more rapid development of an IS
 - Validating new templates, Information Exchange Requirements (IERs) and Data Requirements (DRs)
- Creating the Security, Privacy, and Infrastructure Service (Suite)
 - What’s different:
 - Clarifies requirements on context of use, enabling both HITSP and any other organization to establish an appropriate context for use
 - Names necessary services and identifies orchestration of existing (for initial deliverable) constructs to deliver such services
 - Priority is to address security and privacy ARRA requirements. Addressing infrastructure is a goal for June 30, but must be subordinate to security and privacy. Any infrastructure efforts deferred due to this priority would be resolved in July or later.



Team Organization & Governance

Tiger Teams for Supporting Deliverables

- ❑ Finalize Exchange Architecture and Harmonization Framework
 - Ensure consistency and clarity of concept definitions and cleanup IERs, DRs, Exchange Actions, Exchange Content
- ❑ Data Architecture – address Data Element, Template, and Value Set
 - Clean up these artifacts and decide how to manage



Team Organization & Governance

Needed Ongoing Coordination Efforts

- ❑ NHIN Collaboration/Support
 - Improve alignment with existing NHIN specifications
 - Proactively align with emerging NHIN specifications
- ❑ CCHIT coordination
 - Address the Advanced Technology certification effort – clinical decision support, interoperability, quality, and security
 - Strategic view on coordination of test approaches and support
- ❑ Test Collaborative – NIST, HITSP, and CCHIT
 - Goal – assist ONC and NIST in merging this collaborative with the NIST, CCHIT
 - Refine testing approach being developed by Test Collaborative
 - Address emerging efforts of these tiger teams



Team Organization & Governance

Staff Efforts

- ❑ Create content publication and management infrastructure
 - To support authoring and multi-audience usability.
 - To maximize reuse and repurposing of HITSP artifacts to meet needs
- ❑ Establish roadmap for ARRA gap and extension resolution to align with planned increases in level of “meaningful use”
 - Staff will organize and create early draft
- ❑ Make existing ISs and associated constructs consistent and move to new templates
 - Staff does cleanup where no new content needed
 - Appropriate TC members involved in cleanup where new content (IERs, DRs, diagrams and tables, but no new standards added) needed
 - Results of this cleanup will also be put into the adoption cycle



My Definition of Meaningful Use

Processes and workflow that facilitate improved quality and increased efficiency



Standards Harmonization Roadmap

AHIC Priorities and Use Case Roadmap

2008	2007 Use Cases		2008 Use Cases		2009 Use Case
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
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 	2009 Use Case Ext/Gaps 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
					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

Massachusetts Approach to Data Sharing

- Doctor to Doctor
- Doctor to Hospital/Hospital to Doctor
- Community to Community
- Quality Warehouse
- Provider to Payer



HITSP Efforts to support ARRA

- ❑ HITSP is focusing the energies of its volunteers, staff, and leadership on standards and tools mandated by the new statutory requirements.
- ❑ HITSP's “accepted” products to date will be leveraged to create new streamlined electronically published standards guides organized around the ARRA EHR interoperability requirements.
- ❑ The end result will be much more compact, easy to implement, and flexible implementation guidance which supports the meaningful use of EHRs and protection of privacy.



Team Organization & Governance

Summary of Planned Efforts

- ❑ Tiger Teams
 - ARRA Required Deliverables
 - EHR-Centric “light-weight” IS
 - Security, Privacy, and Infrastructure Service (Suite)
 - Quality Measures project, based on IS06
 - Supporting Deliverables
 - Exchange Architecture and Harmonization Framework
 - Data Architecture – Data Element, Template, and Value Set
- ❑ Needed On-going Efforts
 - NHIN Collaboration/Support
 - CCHIT coordination
 - Test Collaborative
- ❑ Staff efforts
 - Existing ISs and associated constructs consistent and in new templates
 - ARRA gap resolution roadmap aligned with “meaningful use” timeline
 - Content Publication and Management Infrastructure

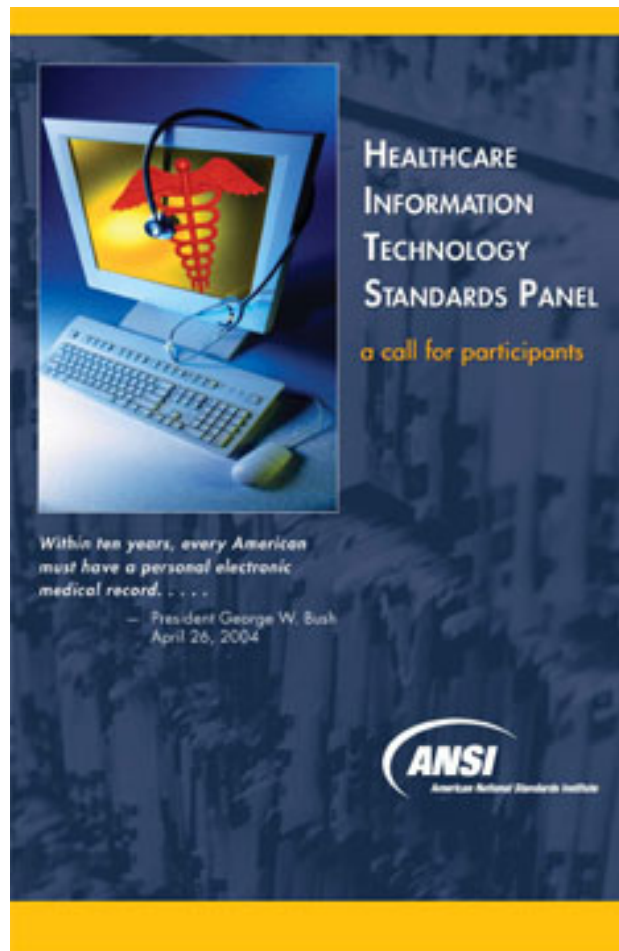


Summary

- ❑ “Meaningful use” encompasses processes and workflow that facilitate improved quality and increased efficiency
- ❑ HITEP has identified the needed data types to measure quality and continues working on minimum quality data sets
- ❑ HITSP has harmonized the standards needed to support HITEP and meaningful use of EHRs

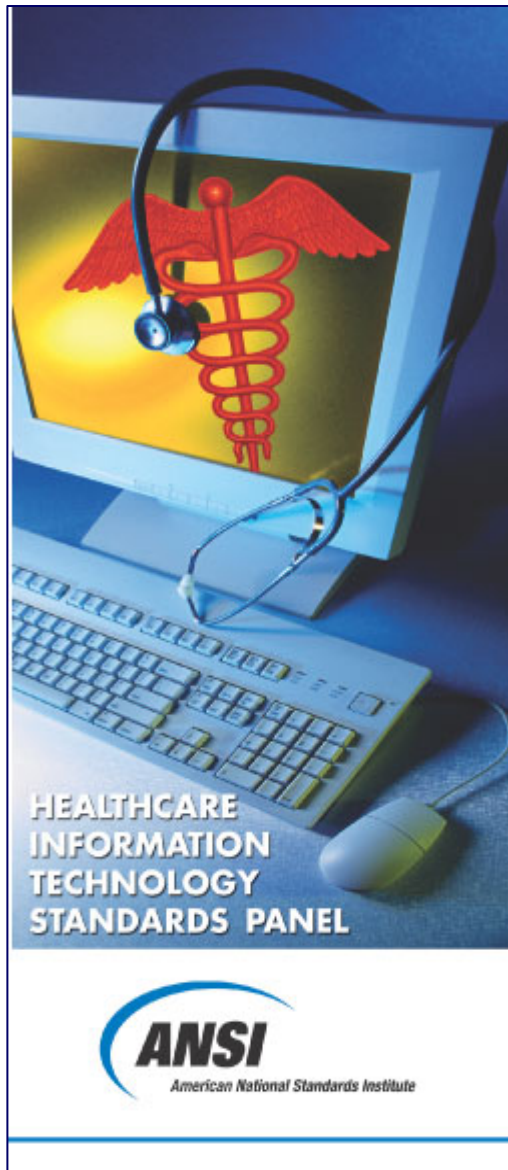


HITSP Information Resources



- ❑ Also available on www.hitsp.org
 - News, organizational details and information on upcoming meetings
 - HITSP Public Document Library
 - Interoperability Specifications (ISs) and Executive Summaries
 - Use Cases





Join HITSP in developing a safe and secure health information network for the United States.

Learn more at www.hitsp.org or contact . . .

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