



HITSP

Healthcare Information Technology Standards Panel

Board Presentation: Overview of Current Activity

June 1, 2009

Presented by:

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American Recovery & Reinvestment Act (ARRA)

- The Office of the National Coordinator (ONC) has asked HITSP to assist it in meeting its requirements for designating standards that support designated ARRA focus areas for healthcare, and ultimately, that support ARRA's notion of "meaningful use"
 - HITSP paused its assigned 2009 work, and directed essentially all efforts toward this end
 - HITSP organized into focused Tiger Teams to accomplish the new task by July 15, 2009

ARRA Specific Areas of Focus

1. Technology to protect privacy and security
2. A nationwide health information infrastructure that supports exchange of health information
3. The use of certified health record for each person in the US by 2014
4. Technologies to account for disclosures of health information

ARRA Specific Areas of Focus (cont'd.)

5. The use of certified electronic health records to improve the quality of health care, such as by promoting the coordination of health care and improving continuity of health care among health care providers, by reducing medical errors, by improving population health, by reducing health disparities, by reducing chronic disease, and by advancing research and education.
6. Technologies that allow individually identifiable health information to be rendered unusable, unreadable, or indecipherable to unauthorized individual
7. The use of electronic systems to ensure the comprehensive collection of patient demographic data
8. Technologies that address the needs of children and other vulnerable populations

Six “Tiger Teams” Were Formed To Manage HITSP Work Efforts

- ❑ EHR Centric Interoperability Specification
- ❑ Exchange Architecture and Harmonization Framework
- ❑ Quality Measures
- ❑ Data Architecture (Element, Template and Value Set)
- ❑ Security, Privacy & Infrastructure
- ❑ Clinical Research

Primary ARRA Areas of Focus for HITSP

	ARRA Section 3002 Items							
HITSP Phase 1 Tasks for ARRA	Protect S&P (3002 i)	Health Info Infrastructure (3002 ii)	Pervasive Certified Health Record (3002 iii)	Disclosure Audit (3002 iv)	Improve Quality (3002 v)	IIHI Unusable (3002 vi)	Demographic Data (3002 vii)	Needs of Vulnerable (3002 viii)
EHR System "light-weight IS"			X		X		X	X
Security and Privacy Service (Suite)	X			X		X		
Quality Measures project, based on IS06					X			
Supporting Deliverables								
Harmonization framework and information/exchange architecture		X						X
Data Element, Template, and Value Set		X	X		X		X	X

Other Important ARRA Areas for HITSP

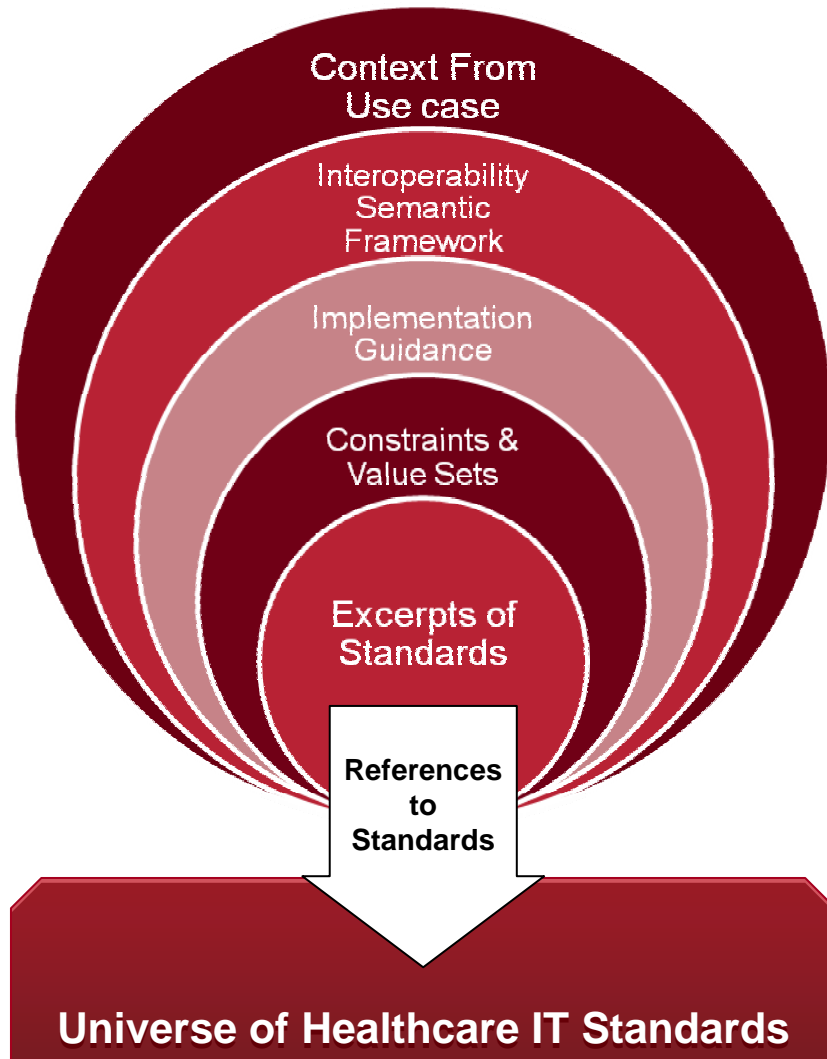
ARRA Title IV (Division B) – Subtitle A—Medicare Incentives

HITSP Phase 1 Tasks for ARRA	Meaningful Use to Include e-Prescribing [4101 (a) (o) (2)(A)(i)]	Exchange of Information to Improve Quality of Care [4101 (a) (o) (2)(A)(ii)]	Reporting Clinical Quality Measures [4101 (a) (o) (2)(A)(iii)]	Certified EHR Defined Under 3000 (13), 3001 & 3004 of HITECH [4101 (a) (o) (4)]
EHR-Centric “light-weight IS”	X	X	X	X
Security and Privacy Service (Suite)	X	X		X
Quality Measures project, based on IS06			X	X
Supporting Deliverables				
Harmonization framework and information/exchange architecture	X	X		X
Data Element, Template, and Value Set	X	X	X	X

The HITSP Approach

- ❑ An important goal for HITSP in fulfilling the ARRA work is to put forward its best work in a form that will be prototypical for future HITSP deliverables, and furthers interoperability among healthcare systems
- ❑ The broad spectrum of HITSP stakeholder participants have demonstrated their ability to shift gears to meet this important national objective, underscoring the value of HITSP as a partner in the continuing evolution of HIT in the United States
- ❑ We intend to address historical concerns with our artifacts en route to our July 15 milestone so the basis of any new regulations on standards is maximally sound and usable

Today's Interoperability Specification et al



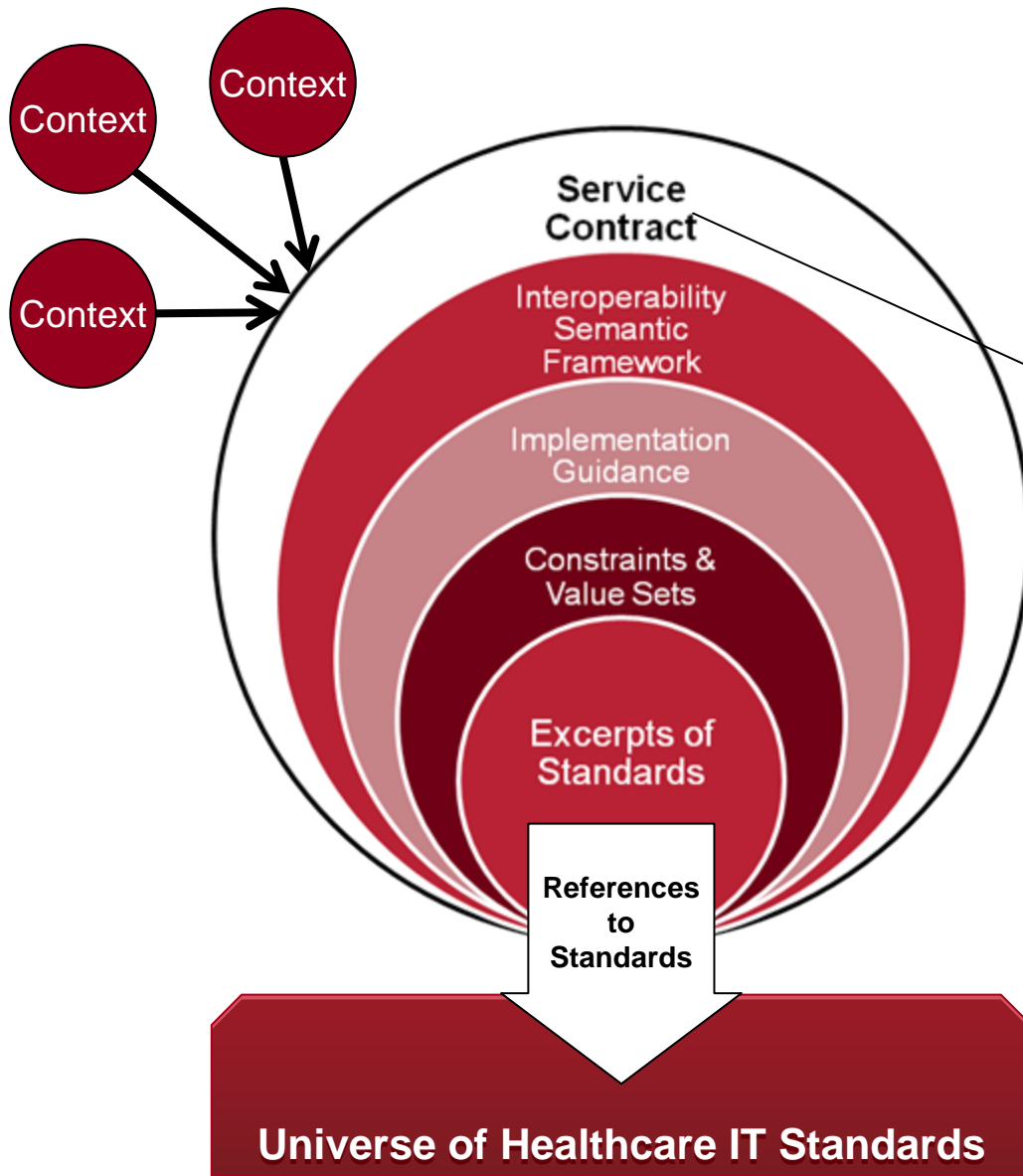
Triumphs:

- Landmark construction of integrated standards
- Harmonization process goes beyond documentation to facilitation of industry standard reconciliation
- Unprecedented level of industry consensus
- Unparalleled cooperation of SDOs
- Basis of product certification
- Basis of NHIN prototyping
- Given official standing through Secretarial recognition

Challenges:

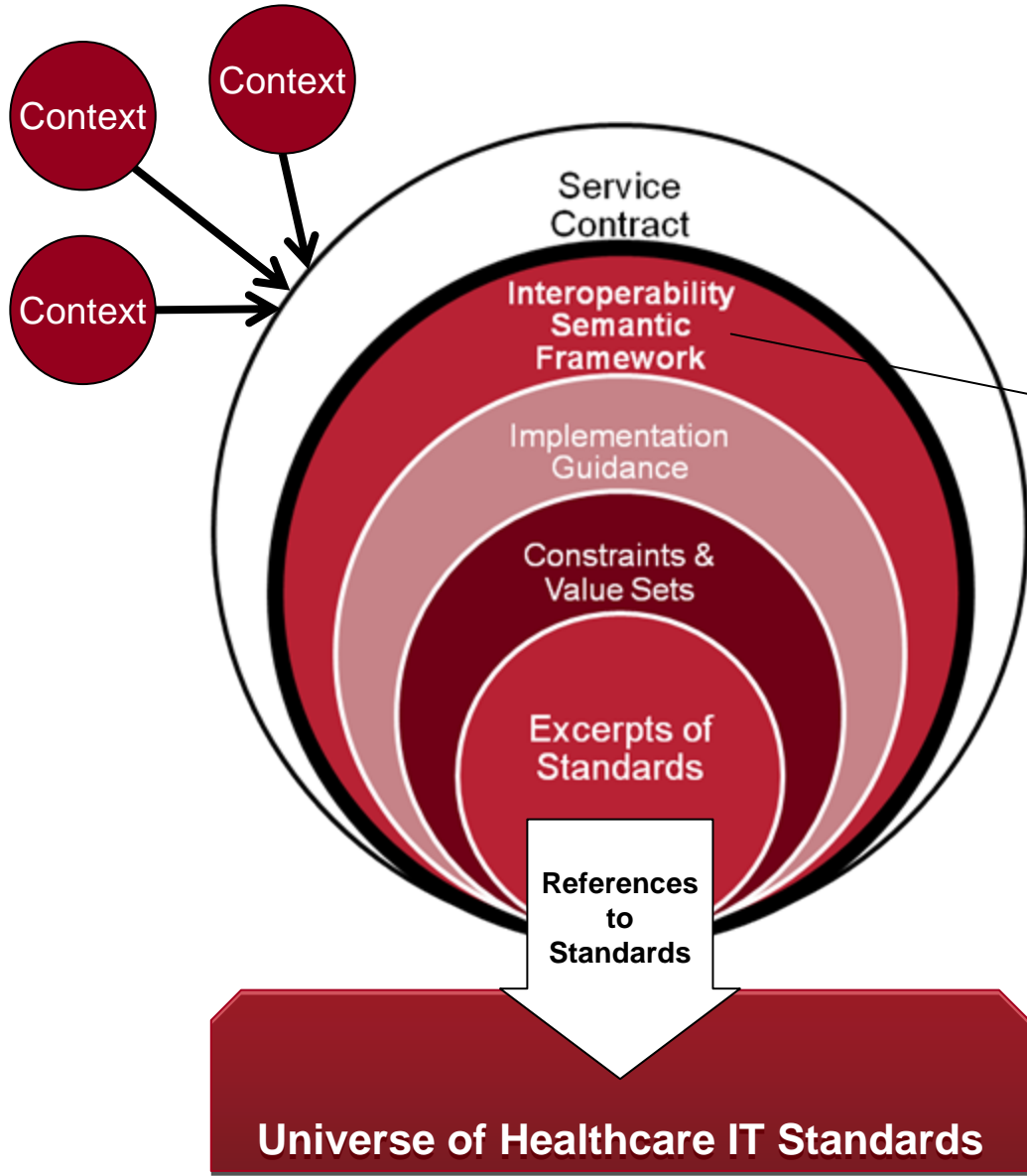
- Scope covers an enormous volume of material across many sources (construction and usability challenge)
- High levels of indirection (usability challenge)
- Development by quasi-independent committees introduces internal inconsistencies (construction and usability challenge)
- Usage limited by use-case context (usability / extensibility challenge)
- Harmonization framework unique to this activity (usability challenge)
- Cumbersome delivery medium (usability challenge)

Introduction of Service Collaborations



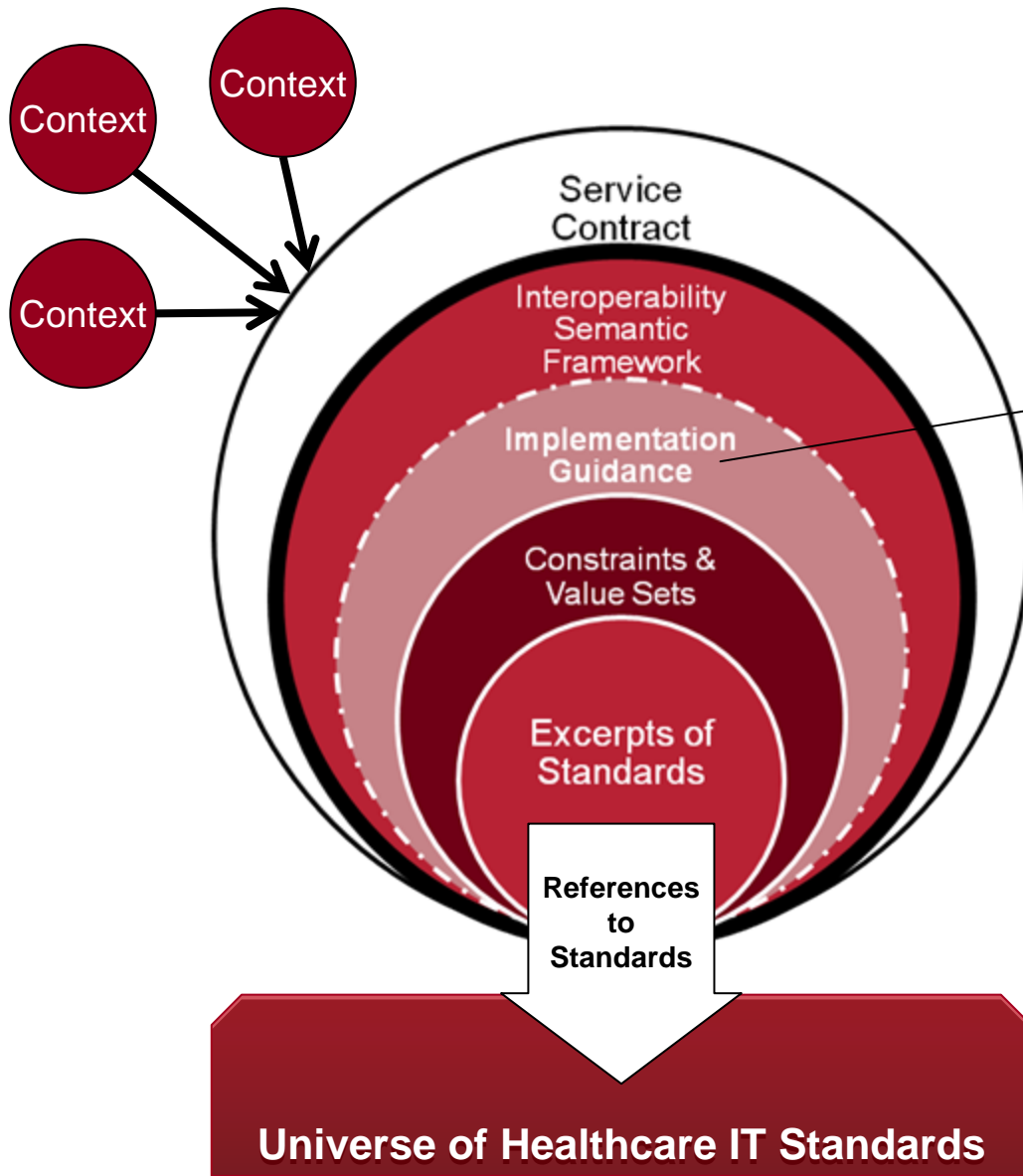
We have created a paradigm that allows HITSP constructs to be used apart from the context of a given interoperability specification, called a service. This allows us to use a concept that is broadly understood in industry (i.e. – a service), and simultaneously increase the extensibility of the HITSP constructs

Fortification of Interoperability Semantics



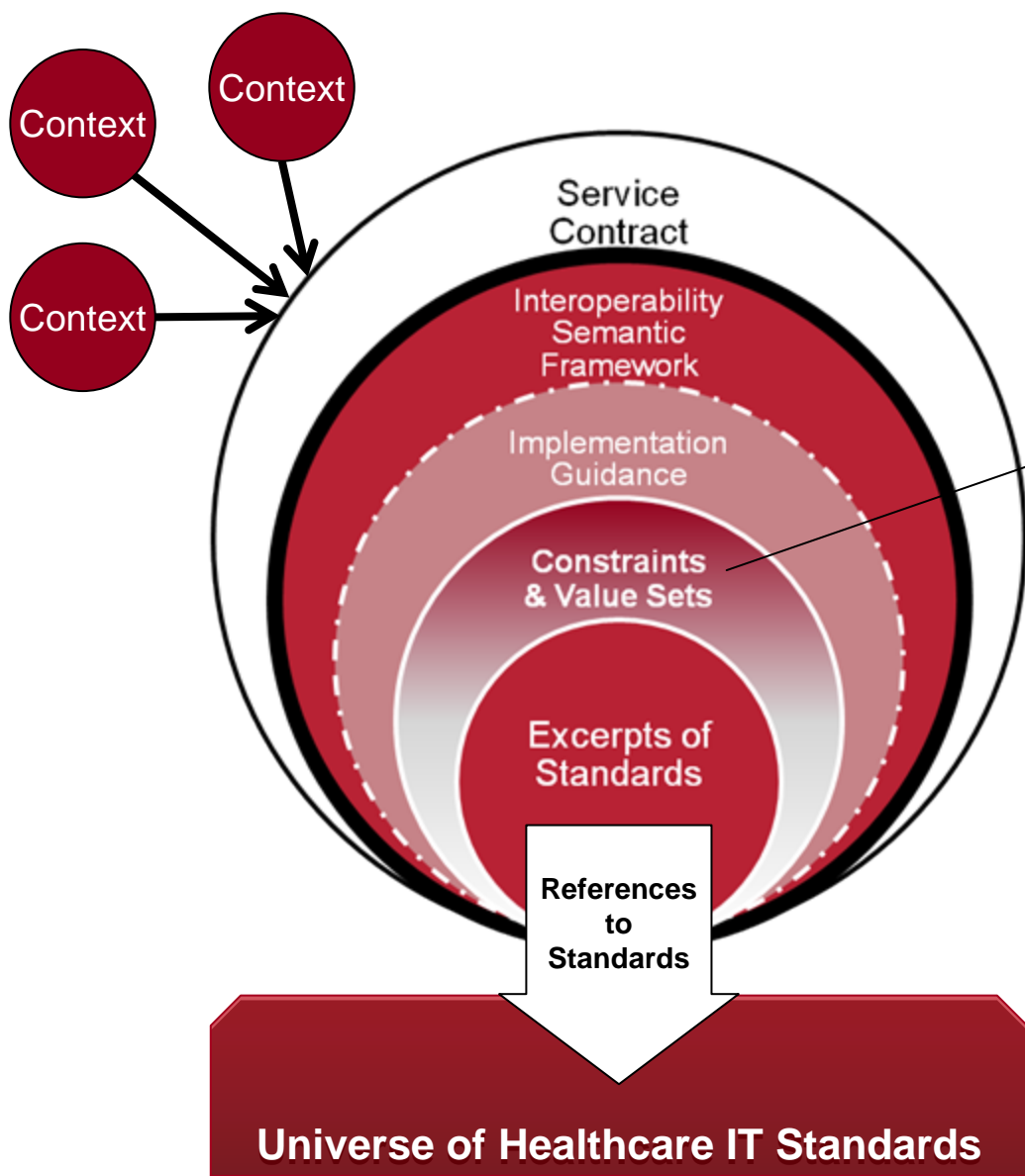
We have reinforced the semantic framework that structures our system of documentation. This allows consistency in harmonization output over time and across efforts. It additionally provides a baseline solution model for the interoperability scenarios addressed by the selected standards

Streamlining of Implementation Guidance



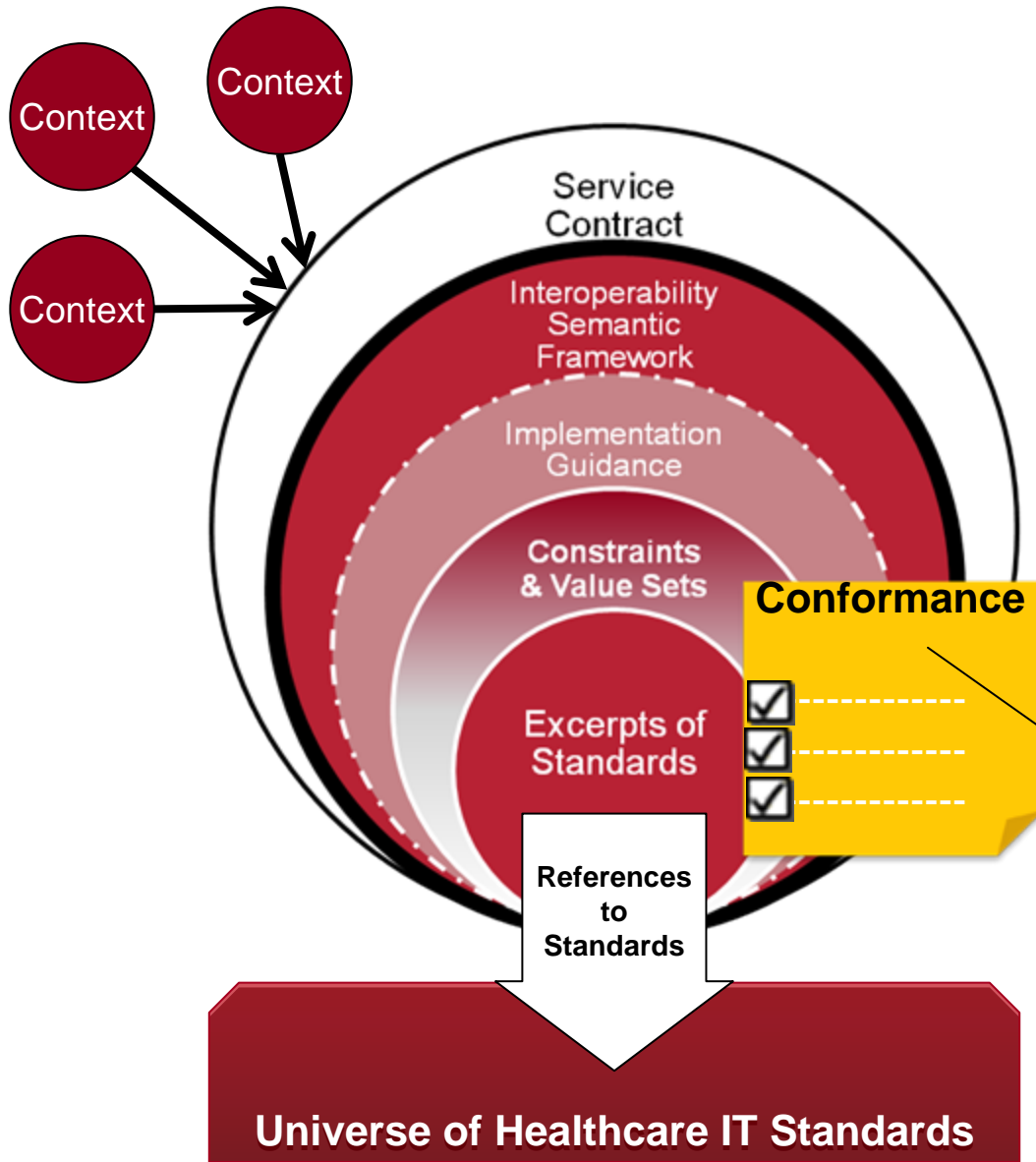
We have reduced the volume of our implementation guidance by stripping down boilerplate, consolidating duplication, and honing the information presented for use by implementers, based on industry feedback received over several years.

Normalization of Vocabularies and Value Sets



We have continued our efforts to extract terminology constraints and value sets, and migrate them into constructs that focus on those aspects, allowing for greater consistency and reuse. Additionally, we have begun to integrate AHRQ-USHIK into our process to handle representation and reference to specified vocabularies.

Support of Explicit Conformance Testing



We have begun to integrate more testing capabilities to strengthen our conformance statements. This includes incorporating testing support mechanisms like Schematron rules.

Indexing of Content for Reporting / Access

We have begun to build extraction tools to organize and index our content for electronic presentation. This will aide document authors to more readily identify concepts for reuse, as well as aid implementers in locating precise elements of our work that is relevant to the task at hand.

HITSP Content Management & Reporting Tool

	Standards	Constraints	Guidance	Semantics	Services	Contexts	Conformance
Ad-Hoc Reporting	XXX	•----- •-----	•----- •-----	•----- •-----	•----- •-----	•----- •-----	•----- •-----
Web Documents	•----- •-----	•----- •-----	•----- •-----	•----- •-----	XXX	•----- •-----	•----- •-----
Hardcopy Documents	•----- •-----	•----- •-----	•----- •-----	•----- •-----	•----- •-----	XXX	•----- •-----

References
to
Standards

Universe of Healthcare IT Standards

Potential Roadmap for Electronic Content Delivery

As we prepare for electronic publishing, this will enable a number of possibilities in how we link and integrate our content with synergistic or supporting efforts.

HITSP Content Management & Reporting Tool

	Standards	Constraints	Guidance	Services	Semantics	Contexts	Conformance
Ad-Hoc Reporting	XXX	• •	• •	• •	• •	• •	• •
Web Documents	• •	• •	• •	• •	XXX	• •	• •
Hardcopy Documents	• •	• •	• •	• •	• •	XXX	• •

Links to SDO
Online Standards

Links to
Service
Registries

Links to
Context
Databases

Links to
Testing
Services

Universe of Healthcare IT Standards

NHIN
Service
Definitions

Legacy
AHIC
Use Cases

NIST
Testing
Repository

HITSP has been Foundational to the Federal Direction for Healthcare IT

- This level of maturity in standards harmonization is not easily replicated, and was forged through
 - multiple years of consistent honing;
 - tens of thousands of hours of voluntary industry participation;
 - extensive public scrutiny and critique; and
 - millions of federal dollars

- Continued active participation by a very diverse community of HIT experts has enabled HITSP to perform these critical functions credibly in support of the ARRA, and in support of the newly-formed HIT Policy and Standards Committees

Next Steps

- ❑ We will continue to address comments and errata in our existing body of work
- ❑ We will continue to migrate content into the new 2009 templates
- ❑ We will continue to index our content for online reporting, and enforce consistency
- ❑ We will ascertain what of the original 2009 work will remain a priority for ONC
- ❑ We intend to secure resources to realize our electronic publishing goals
- ❑ We will deliver strongly on our July15 ARRA assignment

Discussion / Questions Welcomed.

THANK YOU!