Slide 1		
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	Networking and Health	
	Information Exchange	
	Unit 3a	
	National and International Standards Developing Organizations	
	Component 9/Unit #3a Health IT Workforce Curriculum 1 Version 1.0 Fall 2010	
Slide 2	Unit 3 Objectives - 1	
	Explain why standards related to	
	networking and health information	
	exchange are important • Standards development	
	 How standards are developed 	
	Who develops themHow standards are accredited	
	- How standards are selected	
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		1
Slide 3	Unit 3 Objectives - 2	
	-	
	Define the different categories of standards	
	Demonstrate how to find, obtain, and	
	use standards that are needed to	
	facilitate networking and health information exchange	
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Why standards?

- Necessary part of everyday life
- Enables working together
- · Avoid chaos
- Ubiquitous use

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Slide 5



Slide 6



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Standards in health care

- · Aggregation of data among different sites of care
- · Health surveillance
- · Interoperability



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Interoperability requires ...

- Connectivity infrastructure
 - -Land lines
 - -Cable
 - -Wireless
 - -Satellites
 - -Other

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Interoperability requires ...

- Governance infrastructure
 - Decisions made and enforced

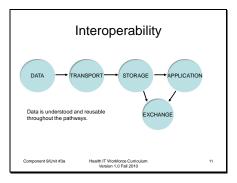
 - StandardsKnowledgeProcess
- Process

 Ideally proper decisions made by experts and mandated by governments. Interoperability is difficult without government involvement, but should be a partnership between public and private.

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Comments about standards

- "What I like most about standards are that there are so many to choose from."
- "There are no standards."
- "We need standards, so let's make some."

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Government and standards

 Much of the activity for Health Information Technology for Economic and Clinical Health (HITECH) and the American Recovery and Reinvestment Act (ARRA) involve standards.

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Who is doing the thinking about standards?

 The Office of the National Coordinator (ONC), supported by two committees – the Healthcare Information Technology Standards Committee (HITSC) and the Healthcare Information Technology Policy Council (HITPC) are engaged in identifying standards for HIT.

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How are standards made?

- Government
- De Facto standards (Proprietary) created by a vendor
- Ad hoc standards create by industry groups
- Consensus standards created by open groups of interested stake holders.

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Authority for standards

- · Government mandate
- Single vendor market share
- Ad hoc vendor agreement
- Consensus balanced voting process among categories of participants.
 Requires over-whelming agreement. Vote by members or countries.

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Who creates standards?

- Unfortunately, there are many groups that create standards. The result is competing, conflicting and overlapping standards. The result is inconsistency in what standards are chosen, defeating the purpose of standards.
- We refer to a group that creates standards as a Standards Developing Organization (SDO).
 Some SDOs are international, others are U.S. only.

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International SDOs (1/2)

- International Standards Organization (ISO)
- ISO TC 215 Healthcare Informatics
- European Committee for Standardization (CEN)
- Health Level 7 (HL7) International
- Digital Imaging and Communications in Medicine (DICOM)
- Institute of Electrical and Electronic Engineers (IEEE)
- Clinical Data Interchange Standards Consortium (CDSIC)

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International SDOs (2/2)

- International Healthcare Terminology SDO (IHTSDO)

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Polated organizations	
Related organizations	
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ect Management Group (OMG)	
egrating the Healthcare Enterprise (IHE) enEHR	
rld Wide Web Consortium (W3C)	
ganization for the Advancement of Structured	
ormation Standards (OASIS) ernet Engineering Task Force (IETF)	
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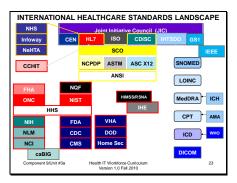
Related U.S. groups

- · American National Standards Institute (ANSI)
- US Tag to ISO TC 215
- National Institute of Standards (NIST)
- SDO Charter Organization (SCO)
- · National Quality Forum (NQF)
- Office of the National Coordinator (ONC)
 - HIT Standards Committee (HITSC)
 HIT Policy Council (HITPC)
- National Library of Medicine

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What have you learned?

- · Importance of standards
- · How standards are made
- Who makes standards

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