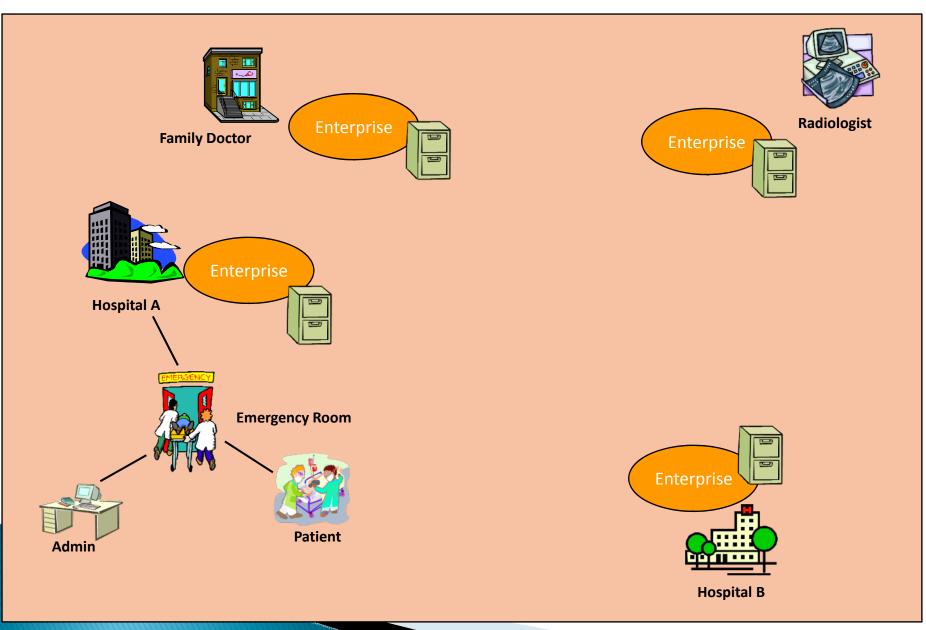
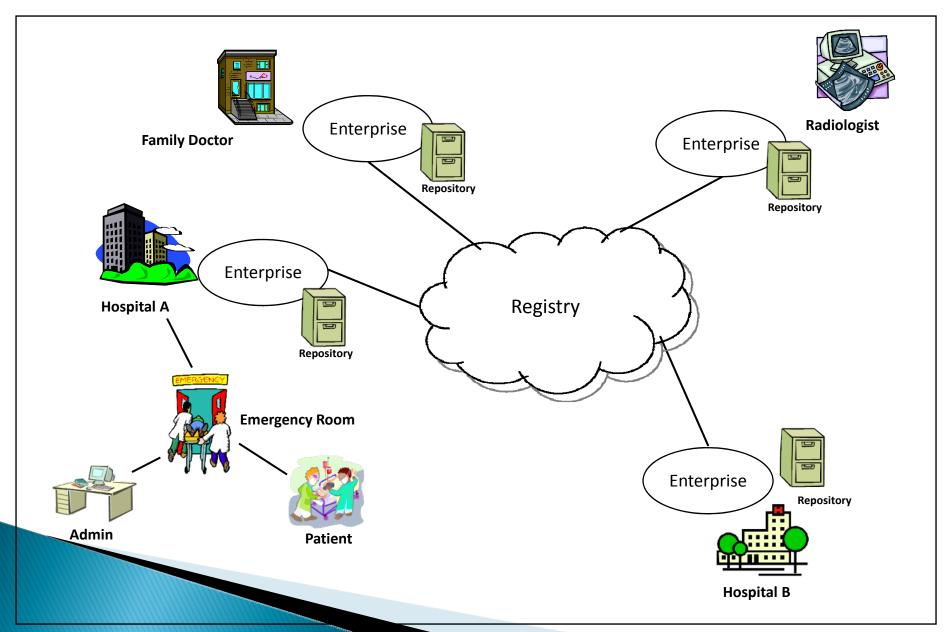
# Enabling Clinical Information Sharing: Standards & Testing Demo

Bill Majurski Project Lead, Infrastructure Integration Software & Systems Division Information Technology Laboratory

# **A Healthcare Community**



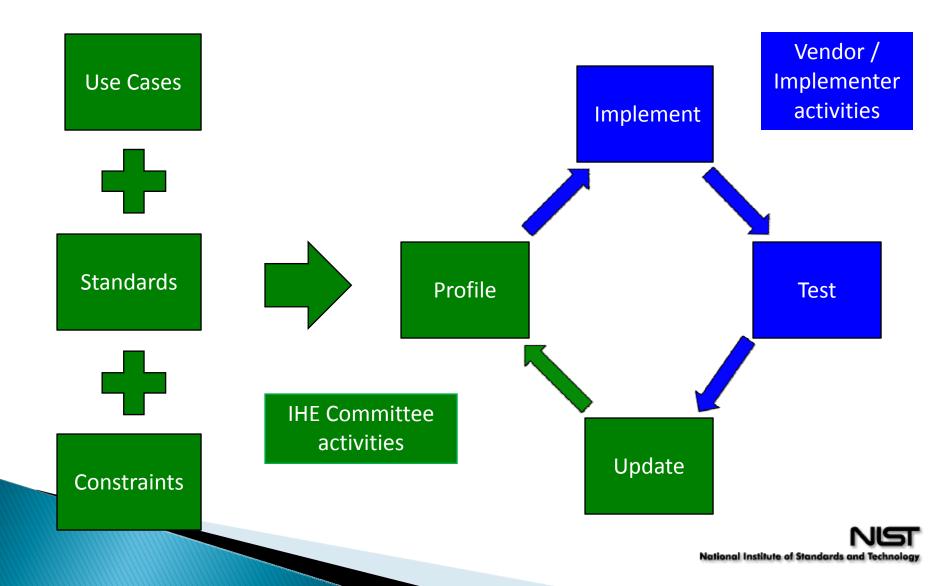
#### **XDS** within a Community



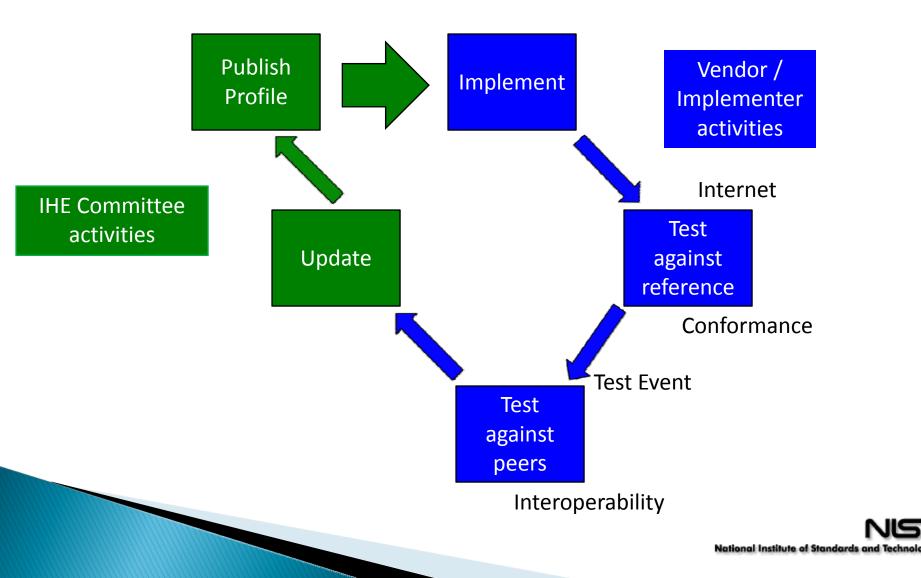
## How it began

- Industry need identified Electronic availability of patient information to healthcare providers
- Prototype developed
  - Refine concepts & engage community
  - Standard from e-commerce adapted for healthcare
- IHE adoption of concept
  - Authored profile & known as key subject-matter-expert
- Collaborate with early adopters to refine profile
- NIST Prototype evolves into:
  - Reference implementation
  - Test tool
- Technology expansion / adoption / real world use

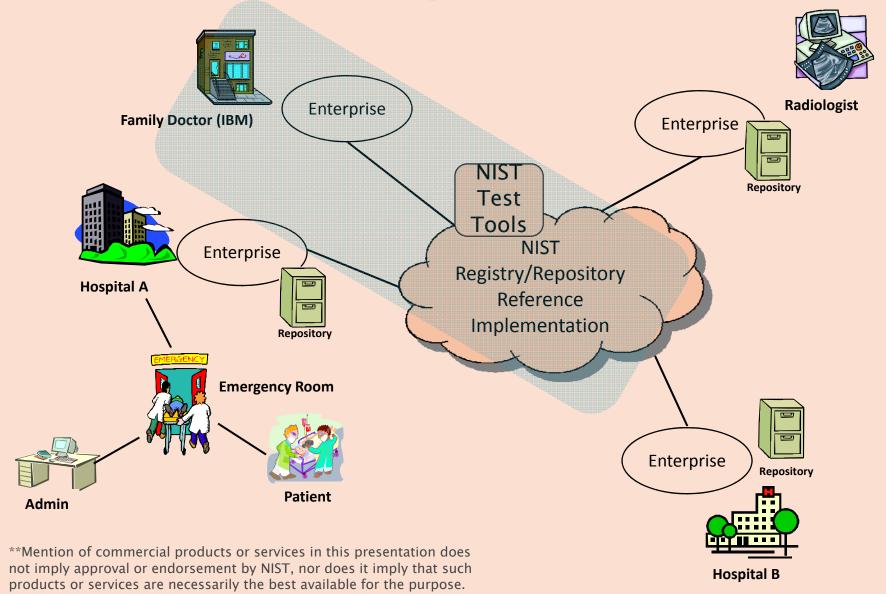
#### **IHE Profile Development Approach**



## **Focus on Testing**



#### Demo Focus: Simple Test Scenario



#### Jump to demo...



## Where is XDS today?

- In the U.S. adopted by HITSP, CCHIT, and the NHIN; implemented in emerging U.S. Health Information Exchanges
- > Part of national healthcare infrastructure plans in
  - U.S., Canada, France, Austria, Germany, South Korea, South Africa
- > Also major developments in Italy, China, Japan, Australia
- Between 50 and 60 vendors test XDS each year
  - GE Healthcare, IBM, Agfa, Siemens Healthcare, Microsoft, Misys/Allscripts, Intel, Oracle
- About a dozen product announcements in the last 18 months
- Vendor implementations (at test events) over last 5 years
  - Registry 29
  - Repository 49
  - Client 70



## **NIST Contribution**

- Original prototype that demonstrated effective use of existing e-Commerce standard into healthcare environment
- Co-authored all 7 IHE profiles: Base profiles plus expansions
- Develop/maintain reference implementation for 5 of the profiles
- Develop/maintain test facilities
- Reference implementation is open source and used heavily
- Continue as a primary architect of new developments
  - Ongoing committee work
  - Research on future extensions
- NIST reference implementation/test tools used globally at test events each year. NIST serves as testing lead in U.S. & Europe

