

CHICAGO  
APRIL 4-8, 2009

**HimSS09**

Annual  
Conference &  
Exhibition

architects  
of  
change

# Welcome to the HIMSS09 Interoperability Showcase™

*brought to you by*  
**HIMSS, IHE and the  
Global Standards Community**

# The Interoperability Showcase

- **A “live” demonstration of interoperability:**
  - Application-to-Application
  - System-to-System
  - Setting-to-Setting
- **Multiple vendor/organizational products communicating and exchanging information with semantic correctness**
- **Implemented using published standards and precise “integration profiles”**
- **Demonstrates seamless health information movement within and between enterprises, regions, nations**

# What is “Integrating the Healthcare Enterprise”??



- **An 11-year public-private initiative**
- **Driven by end-users, IHE improves patient care by harmonizing electronic health information exchange**
- **Enables approved standards to seamlessly pass health information amongst care providers on a local, regional and national level**
- **IHE products are freely available to all**

# IHE: Integrating the Healthcare Enterprise

- **Provides a rigorous process for developing integration profiles that address specific real-world interoperability challenges**
- **Technically robust specifications, facilitating ease of implementation into vendor applications**
- **Conformance testing, integration statements, demonstrations**

*IHE is a key component of the national healthcare IT standards initiative in the US, and around the world*

# Standards: Necessary... not Sufficient

## ● Standards are

- Foundational - interoperability and communications
- Broad - varying interpretations and implementations
- Narrow - may not consider relationships between standards domains
- Plentiful - often redundant or disjointed
- Focused - standards implementation guides typically focus on a single standard

***Interoperability can only be enabled through a standard process for implementing multiple standards***

# Connecting Standards to Care

- It is important to ensure that the implementation of standards meets clinical and administrative needs
  - Clinicians and HIT professionals identify the key interoperability problems they face
  - Providers and industry work together to develop and make available standards-based solutions
  - Implementers are able to follow common guidelines in purchasing and integrating effective systems

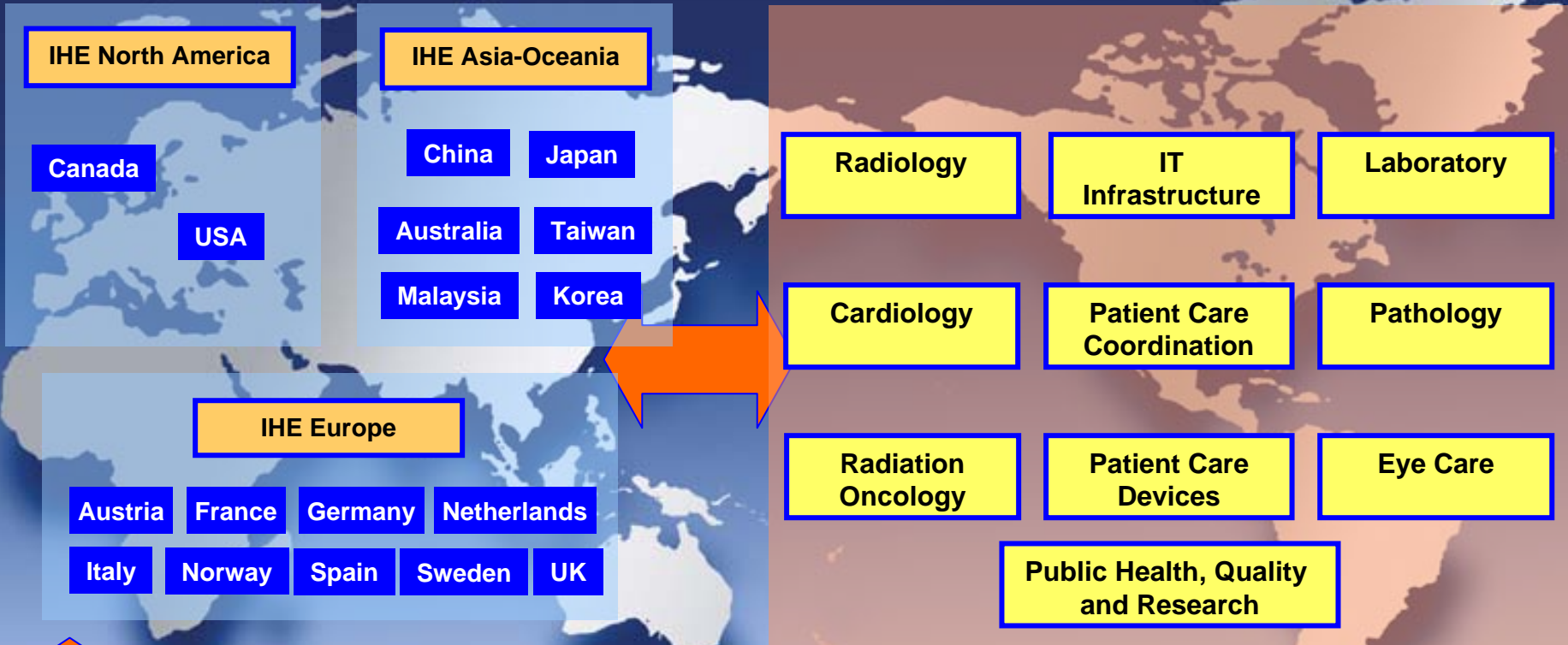
*Interoperability is of high value when there is a shared vision on how to implement standards and processes*

# IHE Organizational Structure

IHE International Board

## Regional Deployment

## Global Development



### Professional Societies / Sponsors

ACC	ACP	RSNA	COCIR	SIRM	ESC	JAHIS	METI-MLHW
ACCE	GMSI	SFR	EAR-ECR	BIR	MSC	JIRA	MEDIS-DC
ACEP	HIMSS	SFIL	DRG	EuroRec	MDEC	JRS	JAMI

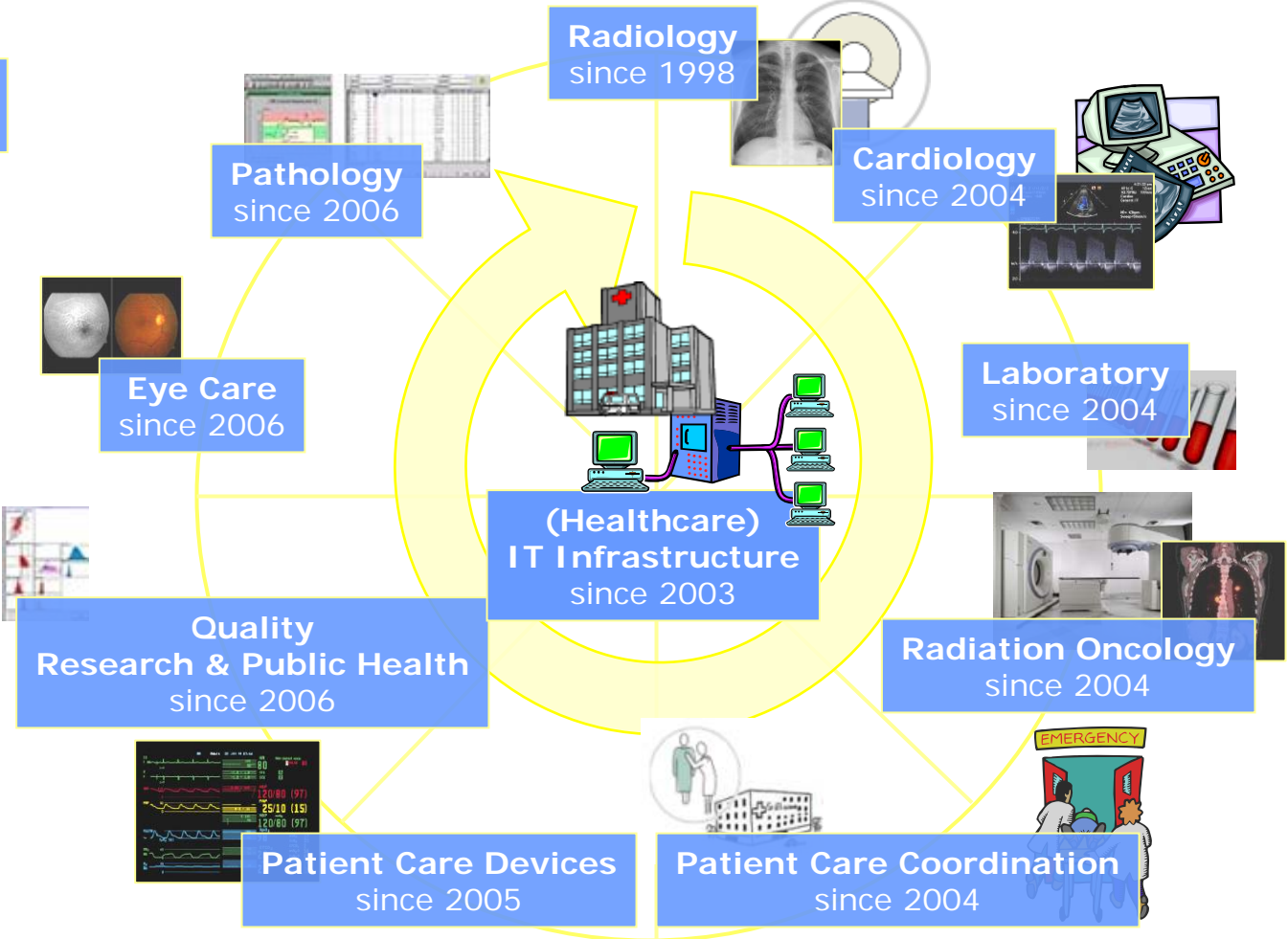
Contributing & Participating Vendors

# The IHE Development Domains

11 Years of Steady Evolution 1998 – 2009



Pharmacy  
NEW 2009



NIMSS/RSNA Workshop  
Integration of the Health Care Enterprise  
(IHE)  
Chicago, IL, October 13-14, 1998  
Sponsored by Marriott

COMPANIES:	PARTICIPANTS:
1. ASFA	Wesley Bagn, Merrick London
2. Carner	Paul Belmont
3. Bellway	Andell Stanley
4. Fujif	John Strauss
5. GE	Charles Patton, Steve Kozin
6. RSAC	John Friedman, Don Sewell
7. Hewlett-Packard	Jack Harrison, Nancy Kinsley
8. IDS	Dana Stinson, Ron Kent
9. Merge	Jay Mehta
10. Philips	Tamara Kinsell, Greg Graham
11. Fisher	Tim Crane
12. OHS	Jack Toney
13. Siemens	Nicholas Wiza
14. Staff	John Page, NIMSS; Chris Carr, RSNA; Steve Dole, RSNA; Del Stauffer, RSNA
15. RSNA SCC Committee	Robert Swanson, MD Gilbert Jost, MD

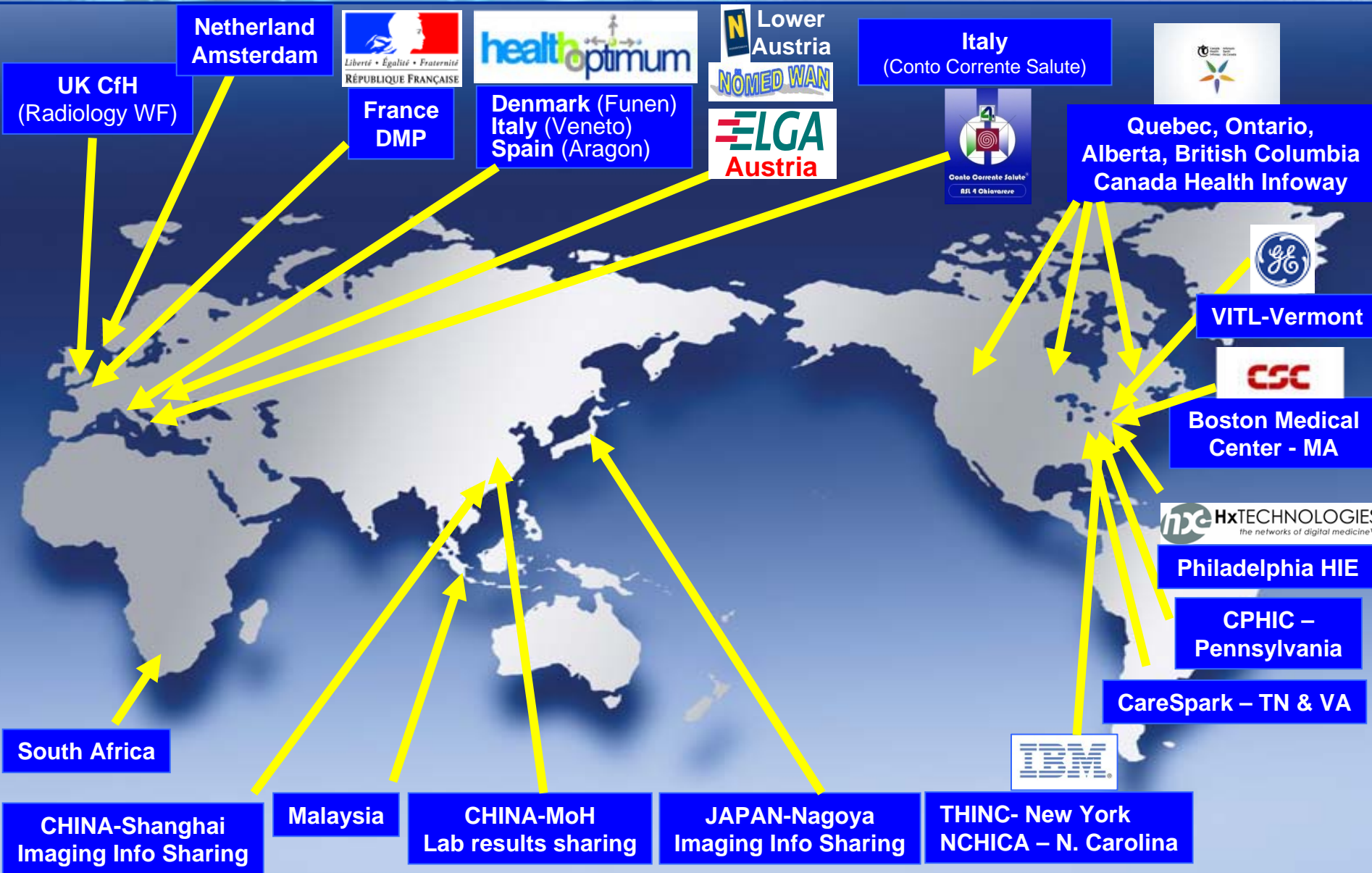
# International Growth of IHE

- Local Deployment
- National Extensions
- Promotional & Live Demonstration Events
- Funding

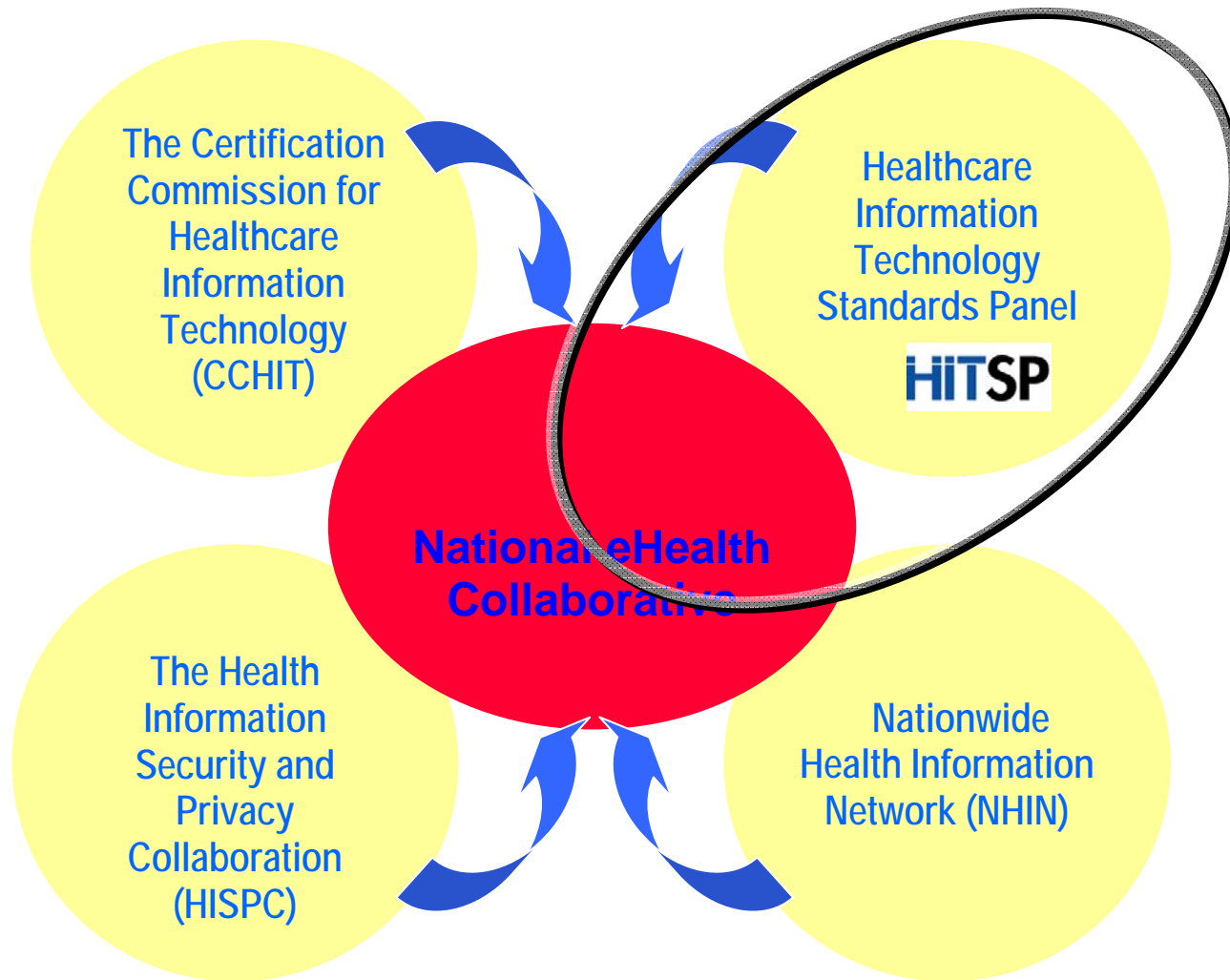


Pragmatic global standards harmonization + best practices sharing

# National and Regional Projects Using IHE



# IHE and US Healthcare IT Standards Harmonization



# IHE and HITSP

IHE Profiles adopted by  
HITSP as “constructs”  
supporting Interoperability  
Specifications

- ATNA
- BPPC
- CT
- DSG
- EDES
- LAB TF-3
- NAV
- PDQ
- PIX
- RFD
- XCA
- XDM
- XDR
- XDS.a
- XDS.b
- XDS-I
- XDS-MS
- XPHR
- XUA

# Featured this year in the Showcase...

- 78 connected applications
- 32 IHE profiles, 28 HITSP interoperability specifications
- Extensive representation of the healthcare system
- Clinical scenarios, focusing on clinician and patient access and information sharing across the continuum of care
  - **Chronic Care**
  - **Community Health**
  - **Emergency Care**
  - **Infrastructure**
  - **Imaging**
  - **Military Health System / Private Sector Partnering**
  - **Patient Care & Home Monitoring Devices**
  - **Patient Consent**
  - **Patient-Provider Partnering**
- Expanded distributed demonstration of a Health Information Exchange, with connectivity with vendor booths

## The 2009 Cast:

Connected Organizations	57
Showcase Supporters	15
<b>Total</b>	<b>72</b>

# 2009 Interoperability Showcase Sponsors

## Leadership

AGFA HealthCare, Allscripts, capsule, ELSEVIER Clinical Decision Support, GE Healthcare, IBM, Initiate, Microsoft, Pfizer, PHILIPS, POLYCOM, SIEMENS, SURGICAL INFORMATION SYSTEMS

Participate as of 3/24/09  
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## Implementer

alert, AXOLOTL, B|BRAUN SHARING EXPERTISE, Canon, CardinalHealth, CERNER, CPSI Clear direction, Dräger, e-MDs, Epic, GREENWAY, HEALTHVISION Software and Solutions, Hospira, Intel, icw Technology for Health, INTERSYSTEMS, LiveData, MCKESSON Empowering Healthcare, mie, NEXTGEN Healthcare Information Systems, nexttrials, NoMoreClipboard.com, ORION HEALTH, OUTCOME real-world results, Phoenix Data Systems, QuadraMed, Registrar Institute, sage, SAIC, Software Partners, SonoSite, Sofusa, Sun Microsystems, TSG TSG Integrations

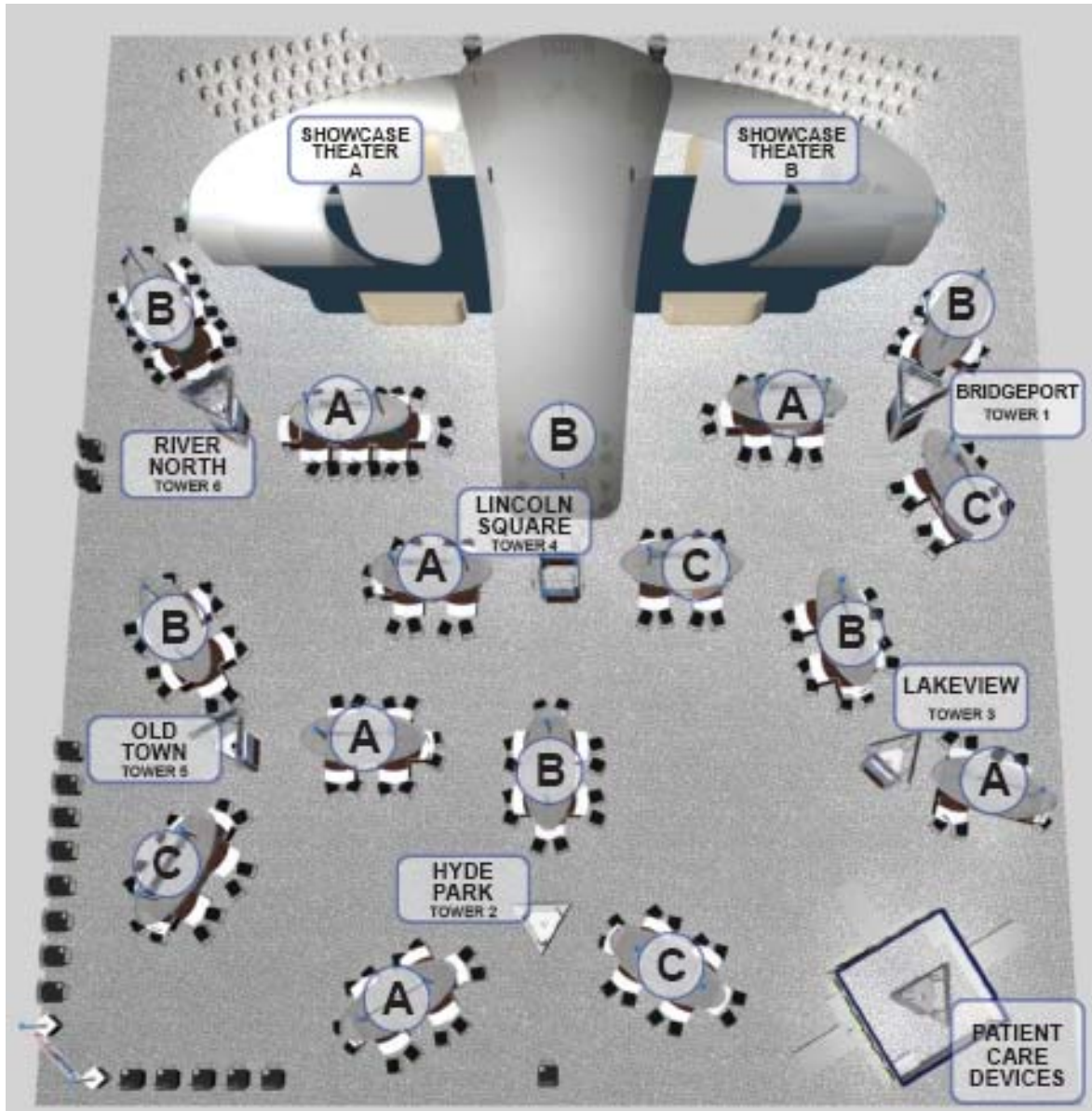
## Supporter

4medica, CAREfx, Carestream Health, Compuware, CSC, patientkeeper, covisint, sunquest, Wellogic

## Organizational Participants

CAQH, CDC, Continuum, MICARE, EHR, FHA Federal Health Architecture, HITSP, IHE-J, ISO, NIST National Institute of Standards and Technology, NPOB, OASIS

# The Showcase Floor



# Interoperability Demonstrated as a healthcare “story”

## Patient-Provider Partnering *A2 Maternal Health - Labor & Delivery* (IS01, IS03, IS05, IS08, IS09)



### Home

Kristine is 34 years old and pregnant with her first child. Kristine's sister, aunt and mother have histories of high risk pregnancies and excessive weight gain. Before she got pregnant, she thought about creating a Personal Health Record (PHR) to document her history, but she never got around to doing so. When she became pregnant she started a hand-written notebook with jumbled notes of history and she wondered how much had forgotten or gotten maybe half-correct.

Because Kristine has several symptoms of concern regarding her pregnancy, she met with three different OB-GYNs and selected Dr. Fem for many reasons and one of which included that Dr. Fem is widely regarded as an expert user of health IT and she encouraged Kristine to start an electronic PHR. The additional pregnancy complications and Dr. Fem's encouragement helped convince Kristine to finally establish a PHR for herself where she could easily keep track of her discussions with her care providers and keep track of her physical conditions, e.g. weight, between appointments.

Kristine was pleased that in addition to paying attention to her health and diet, Dr. Fem also took the time to utilize technology to help her plan ahead in case of potential issues with her pregnancy by accepting the PHR summary as a source of discussion and documenting conditions and family history relevant to the pregnancy.

#### PROFILES

IHE: PIX, PDQ, XDS, XDM, XPHR, CT, ATNA



#### CONSTRUCTS

HITSP: T23, TP22, TP13, T33, C32, T16, T15, T17

### Physician Office

About 37 weeks into her pregnancy, Kristine made an urgent appointment to see Dr. Fem when she started to have some unusual intermittent pain and other symptoms. Kristine has kept her PHR current so she is able to go directly to the doctor's office without having to worry about remembering to share other details. She is examined by Dr. Fem who becomes concerned that there may be complications with the pregnancy and she recommends that Kristine check into a hospital immediately.

# *supported by:* Infrastructure

- Patient Identity Management
- Document Registries
- Document Repositories
- Cross-Community Access Gateways
- Audit Repositories

# The Distributed Demo... win an IPOD!

**3 Stickers enters you in the daily draw!!**

**Get your badge scanned, and be entered for a daily drawing!**

**AGFA**   
HealthCare  
7810

Allscripts   
1303

GE Healthcare



**Microsoft**  
1232

**PHILIPS**  
6010, 6210

**SIEMENS**  
2036

 **SURGICAL  
INFORMATION  
SYSTEMS**  
2617

## HIMSS INTEROPERABILITY SHOWCASE™

Visit the 2009 Showcase in Booth #7750 North Hall and become a part of the show! Enter your name (or a name you make up) and track your own personal Personal Health Record.


Find out how the electronic medical record actually works – for you – at the Interoperability Showcase, Booth #7750. The Showcase offers real-world patient care scenarios enabled by the standards-based IHE framework and the HITSP Interoperability Specifications.

Each attendee can follow his or her own personal health record through the different clinical scenarios to see how this digital link to vital health information improves patient care. By visiting three of the vendors that make up part of the distributed demo, spanning the exhibit floor and collecting an autograph (sticker) you can be entered in to the daily drawing. Simply bring the completed card back to the registration desk at the Showcase Booth #7750.

Be entered in to a daily\* drawing for one daily grand prize of an iPod!

*\*Need not be present to win. Must submit a completed card, with contact information and 3 stickers/stamps from participating vendors.*

\*Name \_\_\_\_\_  
Title \_\_\_\_\_  
Firm \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ St/Province \_\_\_\_\_  
Country \_\_\_\_\_ Postal Code \_\_\_\_\_  
Email \_\_\_\_\_



# What happens next?

- Docents are standing by to guide you through a clinical story demonstrating interoperability

OR

- A presentation begins immediately in this theatre

**Enjoy the Showcase!!**