

# **HIMSS Electronic Health Record Vendor Association**

## **EHR Clinical Research Integration Project**

**Spring AMIA**

**Informatics Across the Spectrum**

**May 24, 2007**

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Past Chair, HIMSS EHRVA**

# Discussion Points

- HIMSS EHRVA Background
- Collaboration with PhRMA
  - PhMRA Education - 2006
  - HIMSS EHRVA / PhRMA / Life Sciences / Clinical Research Meeting – February 25, 2007
  - HIMSS EHRVA Pharmaceutical Industry Workgroup
- Future Opportunities

# EHRVA Mission

Promote the rapid adoption of electronic health records that advance cost effective healthcare

Provide a unified voice and a forum for cooperation for the EHR vendor community

Strategic Plan focuses on these areas

- Certification
- Interoperability
- Advocacy / Public Policy
- Quality

# EHRVA members



GE Healthcare



# EHRVA members



medinformatix



MEDITECH



NOTEWORTHY  
Medical Systems



SIEMENS



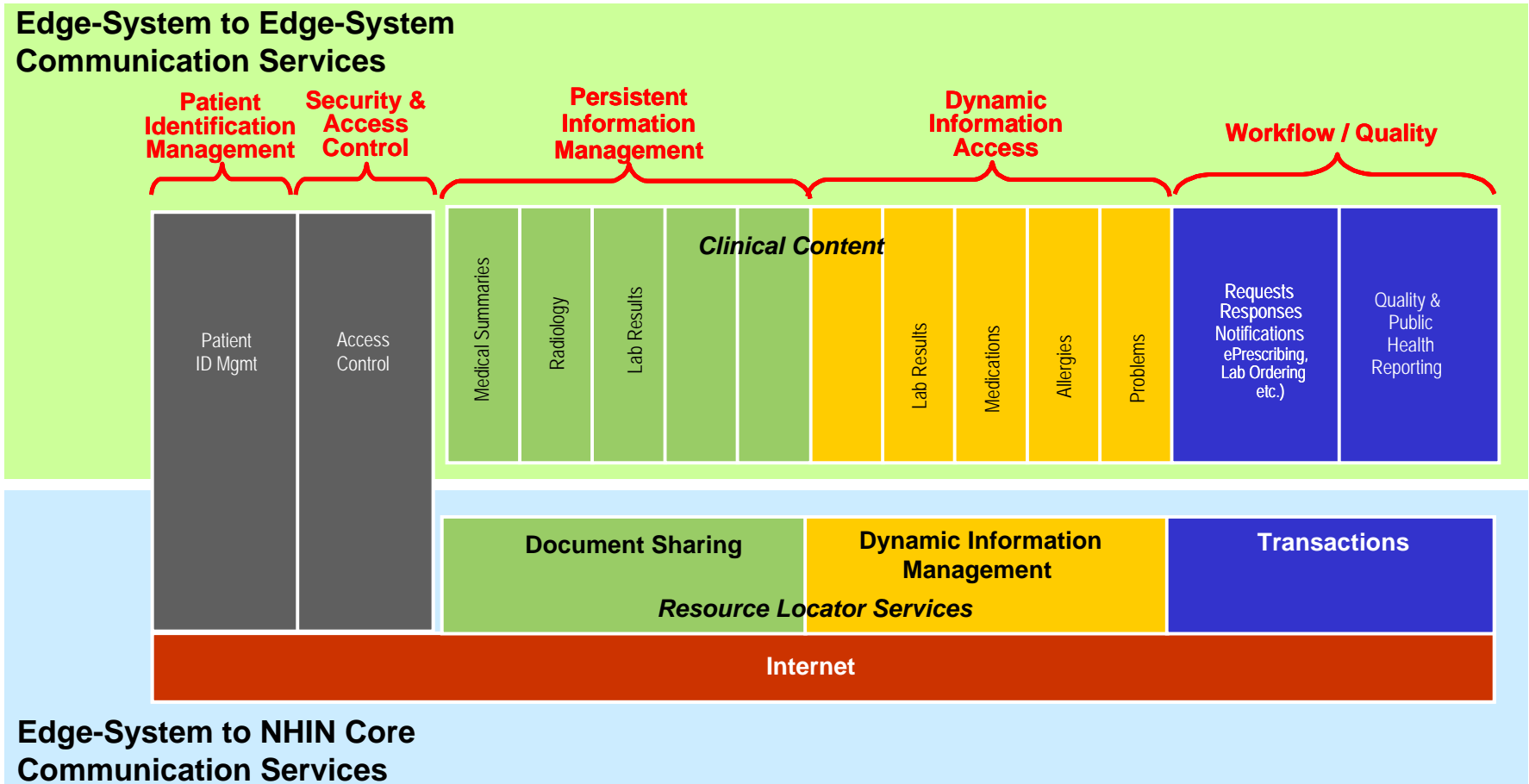
SPRINGCHARTS

Electronic Health Records



# EHRVA Interoperability Roadmap

- Five communication services building blocks
- Framework that supports incremental evolution
- Transparency between Edge Systems & Edge-Core interface



# EHRVA Pharmaceutical Industry Workgroup Members

Shelley Fichtner, PhRMA

Daijin Kim, Pfizer

Kraig Kinchen, Eli Lilly

Tanuj Gupta, AstraZeneca

Hima Kher, Bristol-Myers Squibb

Mitra Rocca, Novartis

Kim Slocum, KDS Consulting (Facilitator)

Justin Barnes, Noteworthy

Charlie Jarvis, NextGen

Don Schoen, Medinotes

Charlene Underwood, Siemens Medical Solutions

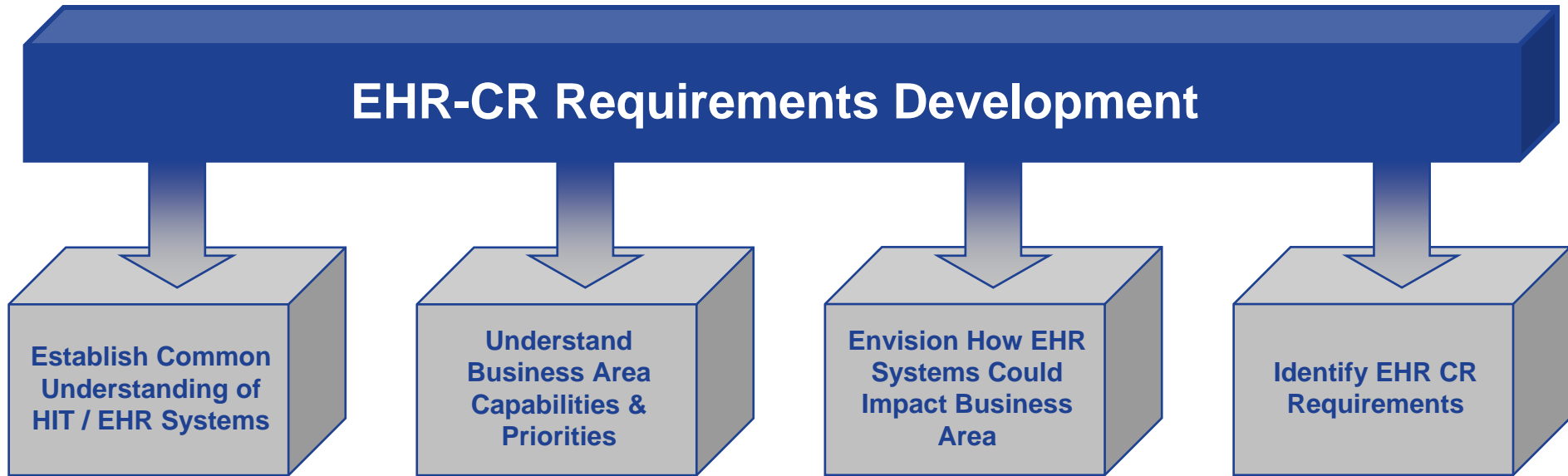
Hugh Zettel, GE Healthcare

# Education Topics – Potential “use cases”

- Electronic Health Records and Outcomes Research
- Matching Investigators and/or Patients to Clinical Trials
- EHR/EDC (Electronic Data Capture)
- Drug Safety and Surveillance
- Coordination of Care for Chronic Disease



# Using EHRs to Support Research



- **NHIN Slipstream Project – AstraZeneca, Bristol-Myers Squibb, Pfizer, Wyeth**
- **Electronic Health Records and Clinical Research – Pfizer**
- **Implications of Electronic Health Records for the Pharmaceutical Industry – Astra Zeneca**

# Use Cases

Clinical Trial Data Collection

Clinical Trial Recruitment

Understand Disease  
Progression

Understanding Disease  
Mechanism

Epidemiology (Study disease  
prevalence in populations)

Document Management for  
Clinical Trials

Drug Safety Surveillance

Outcomes Research

Support Regulatory  
Approval

Audit Medication Workflow

Trial Subject Compliance

Virtual Phase IV trials

Study Drug Use Post-  
Launch

Remote Site Monitoring

# Clinical Research Requirements

*Requirements are grouped by category and can be filtered by use case or system type.*

Req #	Requirements Description	Clinical Research Use Cases															System Type			
		Understanding Disease Mechanism	Clinical Trial Data Collection	Clinical Trial Recruitment	Document Management for Clinical Trials	Understanding Disease Progression	Drug Safety Surveillance	Epidemiology	Outcomes Research	Support Regulatory Approval	Remote Site Monitoring	Study Drug Use Post-Launch	Audit Medication Workflow	Trial Subject Compliance	Virtual Phase IV Trials	EMR	EHR	PHR	Other System(s)	
1																				
2																				
3	1. Data Capture & Interfaces																			
4	1.1	Ability to interface clinical modules within a provider organization (eg. registration, lab, CPOE, radiology, etc...).	X	X	X		X	X	X	X		X	X	X	X	X				This will ensure patient's medical records are consistent across all systems with other health systems.
5	1.2	Ability to connect data from EMR systems from many different provider organizations to create a patient's complete longitudinal record.	X		X		X	X	X	X	X	X	X		X	X	X	X		This may include Record Locking and other health system capabilities.
6	1.3	Ability to interface clinical modules with insurance company & pharmacy systems in order to capture insurance eligibility and medication/treatment costs.							X			X				X	X		X	
7	1.4	Ability to connect EMR/EHR systems with regulatory systems, research systems, clinical trial sponsor systems, and/or other 3rd party systems.	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	This will ensure patients' longitudinal external systems are consistent.
8	1.5	Ability to connect eMAR, CPOE, pharmacy systems with the EMR system in order to capture a patient's complete medication information/history.	X	X	X		X	X		X		X	X	X	X	X	X	X	X	Enables one medication management system.
9	1.6	Ability to connect the EMR/EHR with other systems used for physician credentialing in order to register physicians as investigators.		X	X					X						X	X		X	
10	1.7	Capture patient clinical data that may have been entered via transcription.	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
11	2. Identity & Confidentiality																			
21	3. Data Content																			
56	4. Data Exchange																			
64	5. Functionality																			
78	6. Data Access/Authentication/Audit & Logging																			
87	7. Data Quality/Data Integrity (Standards)																			
96	8. Data storage																			
102	9. Other Systems Capabilities																			
133	10. Non-System requirements																			

# Use cases from IHE/CDISC Demo (HIMSS 2007)

## Clinical Trial: Lab and Image Data

**Sponsored by**  
Novartis

**Powered by**  
Novartis  
Siemens  
SAS

## Clinical Trial: Visit Workflow

**Sponsored by** Eli  
Lilly and Company

**Powered by**  
Cerner Corporation  
Phase Forward  
IBM

## Drug Safety

**Sponsored by**  
Pfizer

**Powered by**  
Sentrx/Relsys  
Allscripts  
Accenture  
SAS

## Disease Registry

**Sponsored by**  
Genzyme

**Powered by**  
•Outcome  
•Allscripts  
•Digital Infuzion  
•SAS  
•Assero/IPL

# Collaboration Opportunities

Help private sector develop a roadmap to shared value

- Mutual understanding of business processes, use case and priorities
- Leverage Use Case Development

Continue to invest in EHR/EDC initiatives

- Standards, IHE & CDISC
- Controlled Medical Vocabulary

Interoperable EHRs to be certified; work to make sure that what is certified meets your needs

- Clinical Labs
- E-prescribing
- Quality (i.e., Adverse Events)
- Population Health