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Driving Standards for Interoperability and Personalized Healthcare



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Technology & Interoperability

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Interoperability is a core part of the business

Sector	Divisions
Industry	<ul style="list-style-type: none"> Industry Automation Motion Control Building Technologies Osram Industry Solutions Mobility
Energy	<ul style="list-style-type: none"> Fossil Power Generation Renewable Energy Oil & Gas Service Rotating Equipment Power Transmission Power Distribution
Healthcare	<ul style="list-style-type: none"> Imaging & IT Workflow & Solutions Diagnostics

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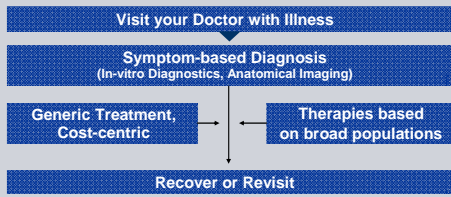
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The World We Live In...

- The U.S. spend \$2 Trillion on healthcare – one in every four dollars is to manage Diabetes (American Chronic Disease Center - CDC)
- 170,000 Americans are still diagnosed with lung cancer every year. Only 17.5% live 5 years after diagnosis – 6 out of 10 are dead in 1 year (American Lung Association)
- We lost 58,000 men and women in the Vietnam conflict (1965-1973) (Vietnam Veterans Memorial site)
- We lose more than twice that through preventable medical errors in hospitals *per annum*... (HealthGrades Patient Safety 2004)
- Heart disease kills more American women every year, than all cancers, accidents and diabetes combined (National Woman's Health Study 2005)

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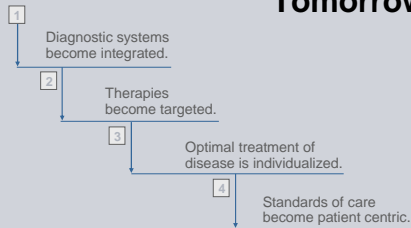
Current State of US Healthcare Model



Megatrend Changes in Healthcare

Where are we headed

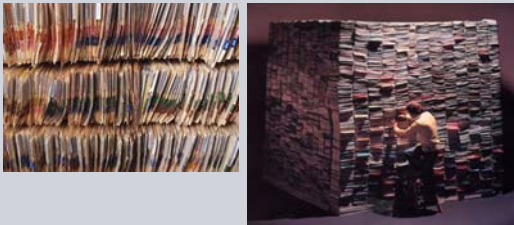
Tomorrow



Why is Interoperability Important?

- Patient Safety
- Cost Reduction
- Improved Outcomes
- Operational Efficiency
- Quality of Care

Information needs to be in a format that is usable and actionable



Interoperability among various hospital IT systems is needed **SIEMENS**

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Integrated Healthcare **SIEMENS**

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MedCentral HEALTH SYSTEM **SIEMENS**

A Case Study: Interoperability Between Functional Areas

Clinicals Pharmacy Financials

Lab Positive Patient ID Pathology Radiology

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MedCentral **Results achieved** **SIEMENS**

Turnaround time for radiology reports is 2 hours as opposed to 24 hours due to implementation of PACS and voice recognition

*Handhelds give phlebotomists up-to-the-minute updates on test changes ... and provide the correct sample at the correct time.

Thanks to Project Expert Care, MedCentral's cardiac surgery program earned a number one state ranking by HealthGrades.

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Commitment and Leadership for Industry Standards **SIEMENS**

- The lessons that we learn in integrating our own equipment are shared with the healthcare community via our industry citizenship
- The goal is to share unique knowledge and expertise for the betterment of healthcare
- We also look to implement standards to the fullest extent possible within our product offerings
 - Custom solutions would add little value to Siemens or our customers

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Snapshot of Siemens Leadership and Contributions **SIEMENS**

OVER 130 INDIVIDUAL PARTICIPANTS FROM SIEMENS CONTRIBUTING TO STANDARDS DEVELOPMENT


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Snapshot of Siemens Leadership and Contributions



- Chair – Advisory Committee
- Co-Chair – Attachments SIG
- PJT Co-Leader – Clinical Statement
- PJT Co-Leader – Dynamic Mode
- Co-Chair – Financial Mgmt TC
- Board of Directors – HL7 Germany
- Co-Chair – Imaging Integ SIG
- Co-Chair – Laboratory SIG
- Co-Chair – Orders & Obs TC
- Co-Chair – Patient Care TC
- Co-Chair – Pharmacy SIG
- Co-Chair – Security TC
- Contribution involvement to many others



- Founding Member since 1998
- IHE Leading / co-chair positions in IHE
- Co-Chair position in IHE Cardiology
- Co-Chair positions in IHE ITI PC
- Co-Chair positions in IHE PCC
- Co-Chair positions in IHE Quality
- Past Co-Chair positions in IHE Radiation Oncology
- Co-Chair position in IHE Europe



- Co-chair position in DICOM WG-02 Projection Radiography and Angiography
- Co-chair position in DICOM WG-08 Structured Reporting
- Co-chair position in DICOM WG-12 Ultrasound
- Chair position in DICOM WG-14 Security
- Co-chair position in DICOM WG-20 Integration of Imaging and Info Systems
- Co-chair position in DICOM WG-21 Computed Tomography
- Co-chair position in the Enhanced CT-MR Task Force

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Snapshot of Siemens Leadership and Contributions
















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IHE Promotion – User Success Stories

Real-world “Proven Outcomes” of IHE Integration – Siemens & other vendors’ products interact using IHE

IHE User Success Stories: http://www.ihe.net/Resources/user_success_stories.cfm

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Moving Forward – SOA Enabled Interoperability SIEMENS

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Example– Traditional Architecture Managing Patient Medication Lists SIEMENS

Point-to-Point integration
Any change requires updates at each system
System upgrades must consider each link
= cost, time, & risk

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Example– Traditional Architecture Managing Patient Medication Lists SIEMENS

Point-to-Point integration
Any change requires reconfiguration at each system
System upgrades must consider each link
= cost, time, & risk

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More Information

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HiMSS Booth #2036

THANK YOU!

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