eHealth: Solutions to Transform Care Delivery
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Presentation Overview

1. GE and healthcare
2. Understanding healthcare challenges
3. How can eHealth help solve challenges?
4. GE solutions for eHealth
GE lives in the healthcare domain

<table>
<thead>
<tr>
<th>A strong business</th>
<th>A big payer</th>
</tr>
</thead>
<tbody>
<tr>
<td>$16B Revenue</td>
<td>$2.5B</td>
</tr>
<tr>
<td>$20B Assets</td>
<td>Employees healthcare expense</td>
</tr>
</tbody>
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✓ A global leader in diagnostics
✓ In business since 1915
✓ Major exporter
✓ 600,000 covered lives in U.S.
✓ 170 healthcare clinics
✓ Leapfrog founder
GE Healthcare IT - a global IT leader

GE Healthcare IT $1.5B/yr

Physician
- EMR
- Practice Solution
- Group Management
- Business
- Business Advantage

Imaging
- PACS
- RIS
- Integrated RIS/PACS
- Cardiology PACS
- Cardiology Info System

Hospital
- Enterprise
- Periop
- Perinatal
- Pharmacy
- Laboratory

3rd party systems

eHealth

Professional and Consulting Services
EDI and Technology Services
Understanding challenges in healthcare
Digitizing healthcare

Healthcare IT makes information accessible and actionable for the patient and provider.
Legacy - heterogeneous, disconnected silos

Community Workflow: Phone, Fax, Mail
Patient Engagement: Analog, Discrete
Patient Information: Scattered
Population Information: Unknowable

Primary Care Physician
Labs
Independent Health Facility
Pharmacy
Specialty Practice
Academic Medical Center
Community Hospital
Other HIE
Patient
Payers
Government
Move beyond point to point

Primary Care Physician
Labs
Independent Health Facility
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Academic Medical Center
Community Hospital
Patient
Payers
Other HIE
Government
Next - connected healthcare communities

- Community Workflow: Digitized
- Patient Engagement: Web 2.0
- Patient Information: Integrated
- Population Information: Insight

- Primary Care Physician
- Labs
- Independent Health Facility
- Pharmacy
- Specialty Practice
- Academic Medical Center
- Community Hospital
- Government
- Patient
- Payers
- Other HIE

eHealth
Two paths towards eHealth

Image Exchange

- Images & Reports
- eHealth Image Exchange*

Clinical Exchange

- Clinical docs first, images next
- Documents, medications, allergies, labs,
- eHealth Information Exchange*

* eHealth Image Exchange and eHealth Information Exchange are not available in all countries. Contact your GE Healthcare sales representative for more information.
eHealth Information Exchange

- Primary Care Physician
  - EMR

- Labs
  - Orders and Results

- Independent Health Facility
  - Imaging
  - Long-term Care
  - Physical Therapy

- Pharmacy
  - ePrescribing
  - Medication History

- Specialty Practice
  - EMR
  - eReferral

- Academic Medical Center
  - Research
  - Clinical Trials

- Community Hospital
  - PACS
  - HIS
  - Departmental

- Community Connections
- Master Patient Index
- Document Registry
- Document Repository

- Government
  - Quality and Efficiency
  - Public Health

- Payers
  - Medicaid/Medicare
  - Private

- Other HIE

- Patient
  - Personal Health Records

- GE Imagination at Work
eHealth Image Exchange
The best of imaging IT and HIE

- Government Agencies
- Radiologists
- Hospitals
- Imaging Centers

Data Analysis
Metrics
Prior Studies
Images & Reports

Reporting Tools
- eHealth Clinical Viewer (XDS Viewer)
- Centricity Enterprise Web (DICOM Viewer)

- eHealth Registry (XDS Registry)
- Centricity™ Enterprise Archive 4.0 (DICOM Archive & XDS Repository)

Master Patient Index

Patient Consent
Images & Reports
General Practitioners
Specialists

standards-based solution connects heterogeneous systems
eHealth Community Desktop

A web-based clinical portal that enables collaborative care across a community of clinicians without EMRs

- Widen community access with an easy, browser-based user interface
- Enable care teams, including case managers, to facilitate care coordination
- Bring various in-house applications together in one place
- Extend your HIE investment over time with add-on workflow and performance apps
- Increase HIE use with flexible screen layouts to match your look-and-feel
Workflow Apps

Workflow apps can be added to the eHealth Community Desktop to customize workflows and enable care coordination and improved efficiency.

These apps drive productivity gains by leveraging HIE data to streamline care delivery and avoid unnecessary wait times.
Knowledge Apps

Knowledge apps can be added to the eHealth Community Desktop to deliver new insight and decision support based on aggregated data in the health information exchange.

With this insight, performance apps can help improve quality.
eHealth Solutions Architecture

A standards-based solution built for optimized connectivity and collaboration

Key Tenants:
✓ Open
✓ Extensible
✓ Scalable
✓ Customizable
✓ Proven

Portal Framework
- Functional App 1
- Functional App 2
- Functional App 3
- Functional App 4

Web Browser
Windows/Linux

Application Server
- Web Services
- Apache Tomcat
- RedHat Enterprise Linux 5.4

Document Registry
Organization Manager
User Management
Patent ID Cache

Subscription Manager
Consent Policy Manager
Code System Manager

APIs
- HL7 ADT
- PIX
- PDQ
- XDS.b
- XDS.b-Sec
- XDS.i.b
- HL7 MDM
- HL7 ORU
- QED
- QED
- ATNA
- Secure Notification

Functional App 1
Functional App 2
Functional App 3
Functional App 4

Web Services
Documents
subscriptions
Configuration
Policies

Database Server
- Hibernate
- Oracle 10g
- RedHat Enterprise Linux 5.4

Integration Platform

Service Bus
GE & Away win Connecticut HIE

- **Axway and GE - Best of Breed HIE Solution**
  - **Away**
    - Prime for project and provides
      - DIRECT (Secure Email Messaging)
      - Community Management (Ramping users onto the HIE)
      - B2B gateway (Connectivity – web services, ITI transactions)
      - End-point technology (Spoke for automated movement of messages from providers/hospitals/clinics)
      - Transformation (HL7 mapping, any to any transformation, XML)
  - **GE provides**
    - XDS Repository and Registry
    - Provider and EMPI indexes
    - Clinical Desktop Portal (view clinical data)
Your partner for eHealth

✓ Empower physicians with better intelligence
✓ Proactively manage chronic diseases
✓ Grow revenues with better referral management
✓ Improve productivity with digital workflows
✓ Engage patients in the continuum of care
✓ Build on your existing investments
✓ Capture the value of eHealth

Proven Healthcare Experience