GE Healthcare

Trieste 28 Ottobre 2013

Gian Luca degli Stefani

Regional Commercial Leader IMI
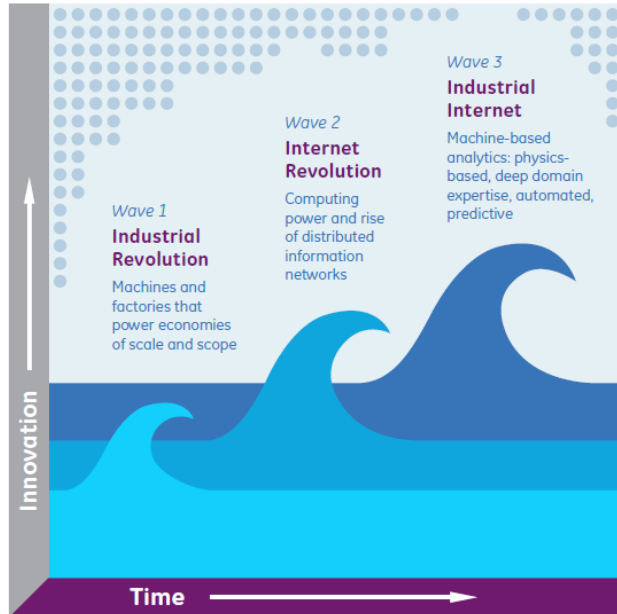Italy , Malta & Israel
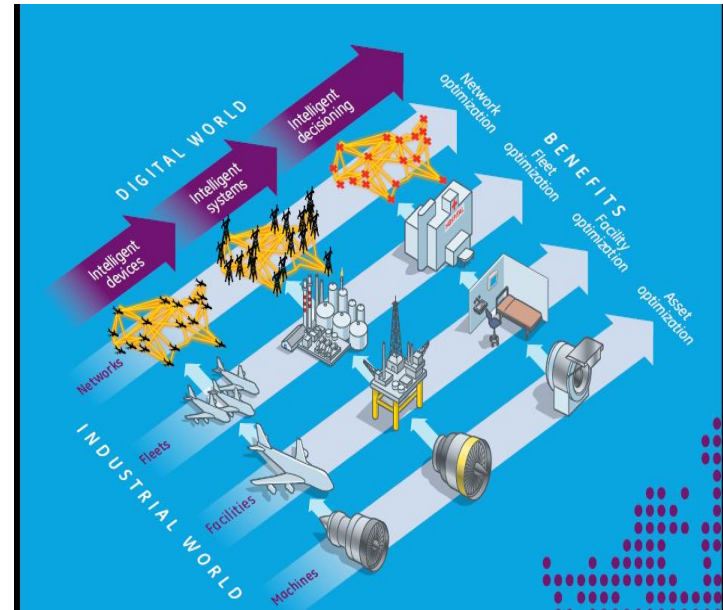Gianluca.deglistefani@ge.com

Industrial Internet:
"Pushing the Boundaries of Minds and Machines"

"…Big Data 'knows' when and where it needs to go.."

"…Big Data Analyst….."

imagination at work
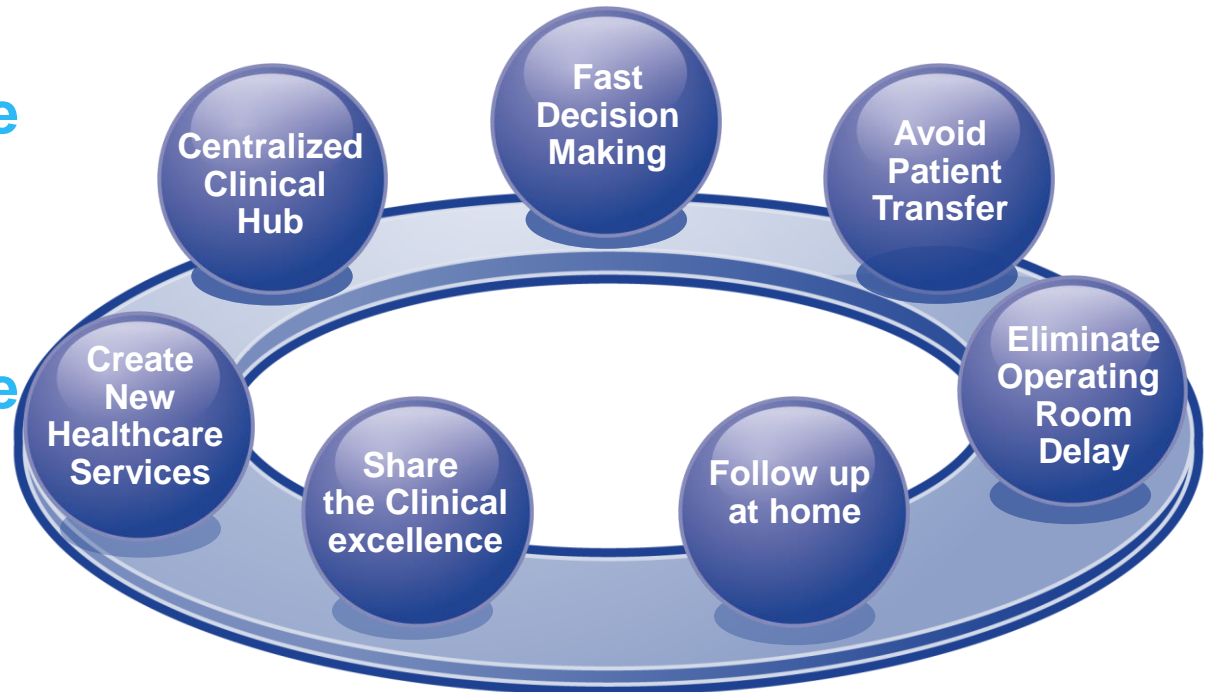
New e-Health Community
Enabling improved productivity

Configure end-to-end workflows to your specific needs, processes, and organizational standards.

Create new healthcare Services for the Citizen

Create new healthcare Services for the patient

- Centralized Clinical Hub
- Fast Decision Making
- Avoid Patient Transfer
- Create New Healthcare Services
- Share the Clinical excellence
- Follow up at home
- Eliminate Operating Room Delay

Productivity

Enhanced clinical Services
Connect different systems and share results

Cross-site Reporting

Mammo screening

Oncology Networks

Web Workflow Engines

Stroke Networks

Referral – GP Access

Consolidates Imaging Silos

Builds Patient History

Shares Clinical Information

Vendor Neutral Archive – one unified platform

Radio   **Cardio**   **Patho**   **Endos**   **Vis. Light**

Multiple sites
Multiple sources
Multiple vendors
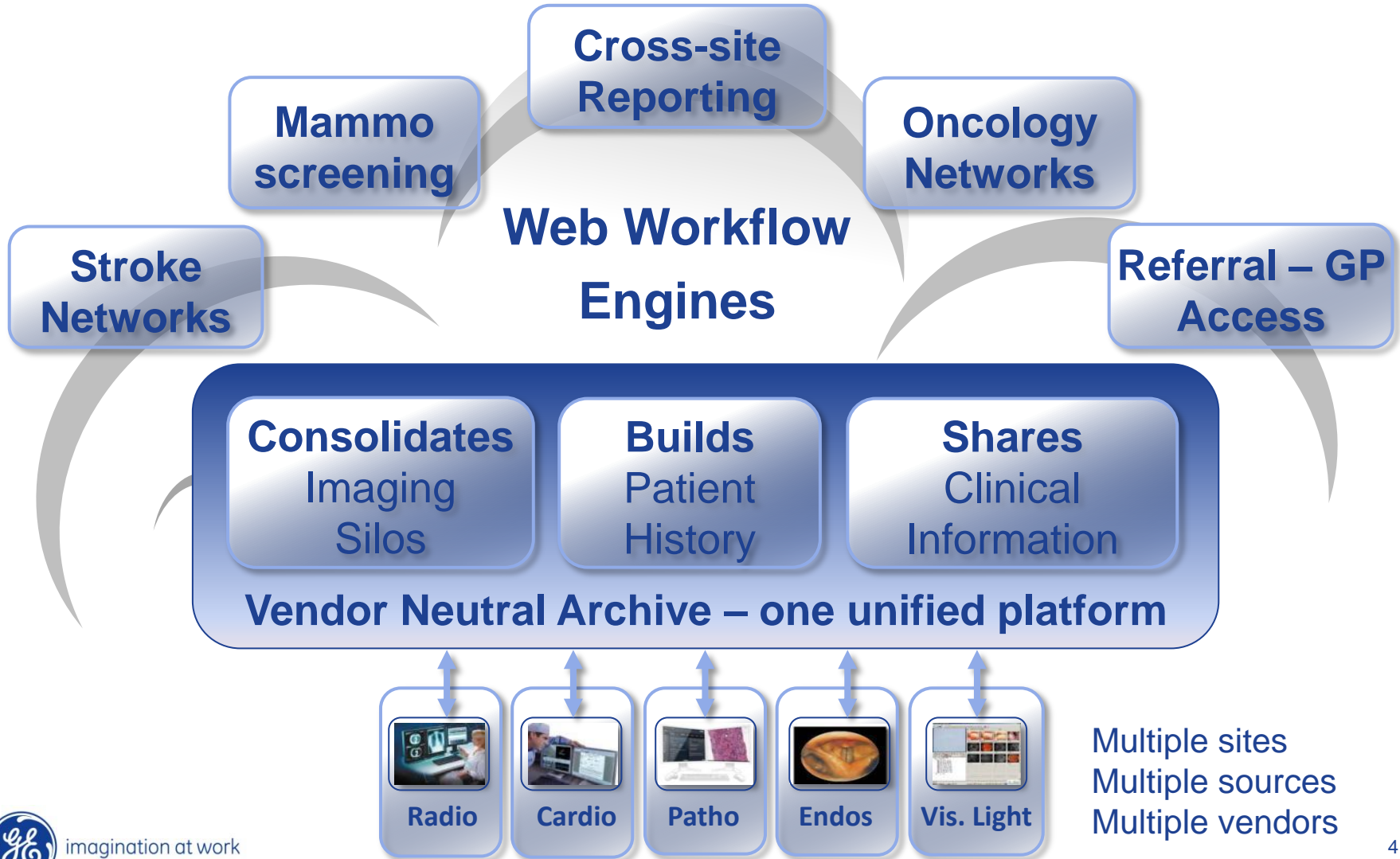
From the Current Situation

Challenges

- Multi-vendor, disparate silos

- Storage costs

- Management overheads

- Service continuity

- Complex custom Integration

- Data Access Challenges

- Multiple viewers & interfaces

Hospital -1

Radiology | Cardiology | Pathology | Endoscopy | Dermatology/Visible Light

RIS PACS | CVIS Card PACS | PATH IS PATH Images | GI IS GI Images | DERM IS DERM Images

EMR

Hospital -2

Radiology | Cardiology | Pathology | Endoscopy | Dermatology/Visible Light

RIS PACS | CVIS Card PACS | PATH IS PATH Images | GI IS GI Images | DERM IS DERM Images
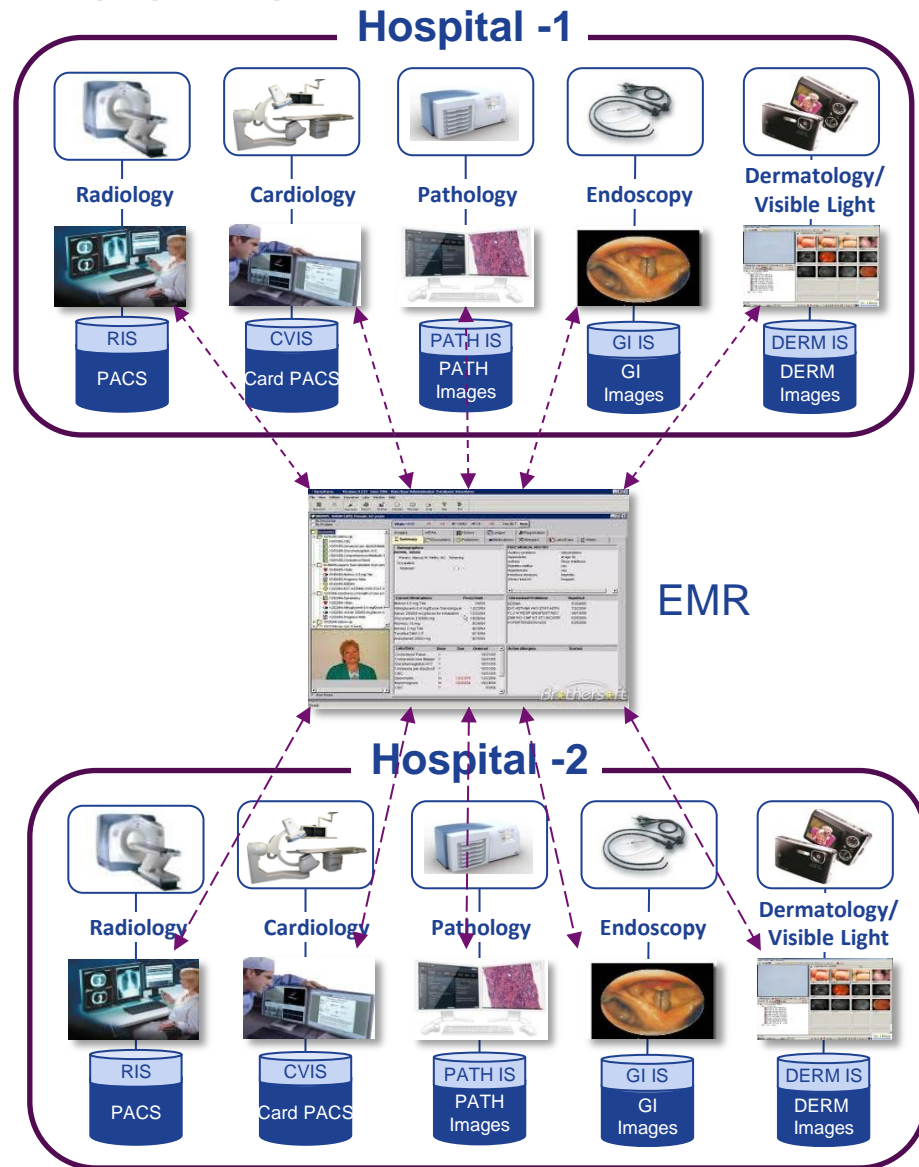
To Cloud Healthcare Service Layer for the Citizen

Clinical insight within reach to help deliver patient results efficiently.
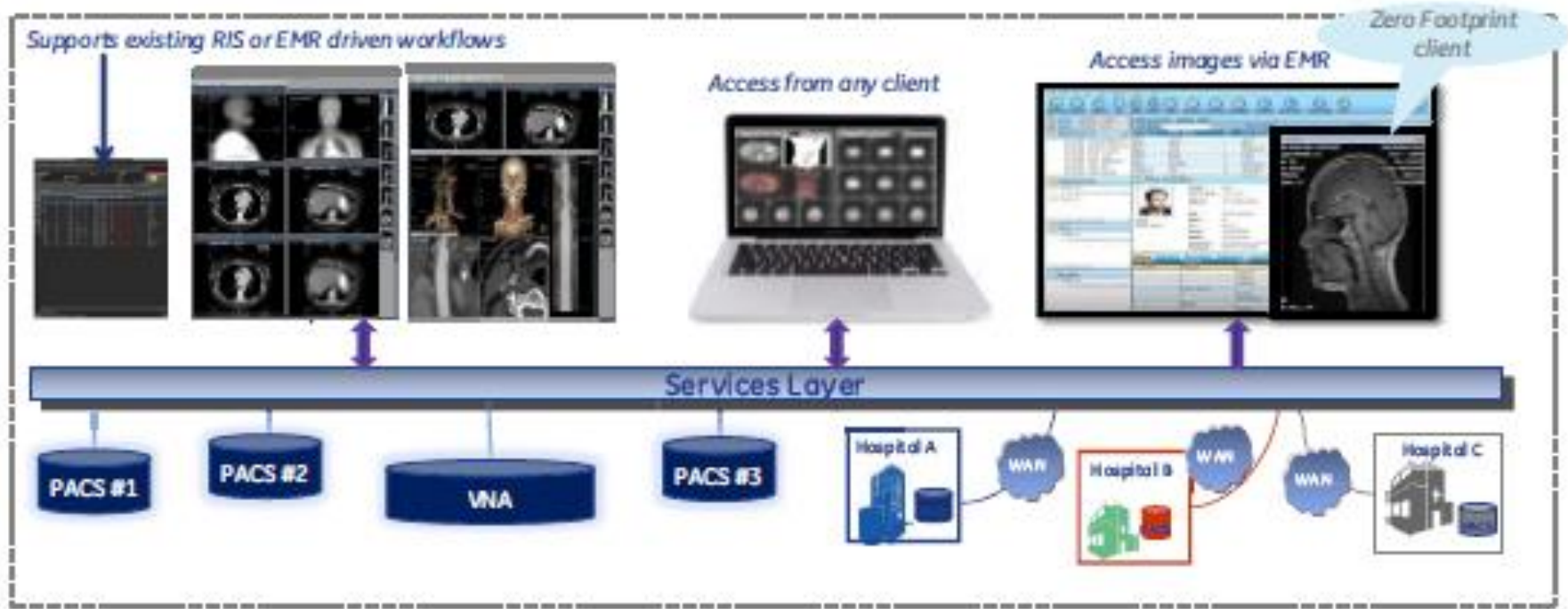
Some Examples: e-Health pathways
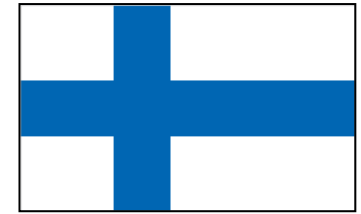
Today   **Tomorrow**

Digital Pathology:

Glass   Digital

Digital Radiology:

PACS   VNA

E-Health:

Data Move   Data Access
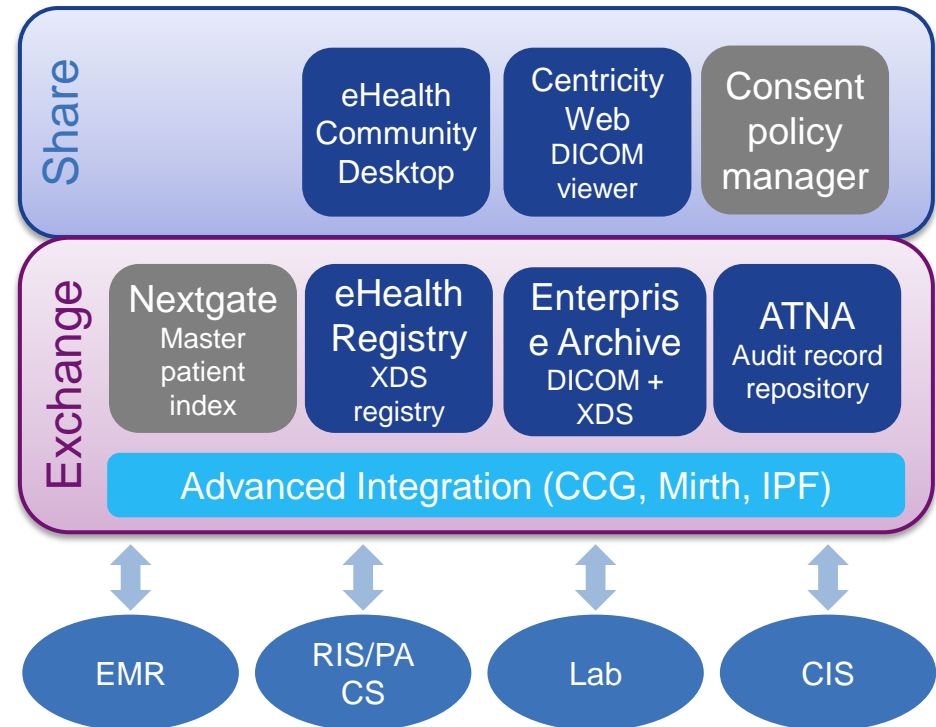
Result Sharing: HUS XDS

Helsinki

Project details

- XDS archive + clinical portal for documents and images

- 21 hospitals and 25 health centers

- 2 or 3 instances of RIS/PACS

- 1 million radiology exams/year

- Budget 4.2 MM$ /3 years

Expected benefits

- Facilitate replacement of departmental workflow solutions

- Longitudinal patient record tp access to clinical information across departmental boundaries

Share
- eHealth Community Desktop
- Centricity Web DICOM viewer
- Consent policy manager

Exchange
- Nextgate Master patient index
- eHealth Registry XDS registry
- Enterprise Archive DICOM + XDS
- ATNA Audit record repository
- Advanced Integration (CCG, Mirth, IPF)

EMR | RIS/PACS | Lab | CIS

Biggest Challenge : Services

Canada Infoway Benefits

Improve workload sharing

Improve report turn around time

Improve competitiveness

Informed clinical decision making

Avoid patient transfers

Reduce duplicate exams

Benefit Evaluation Results from the Pan-Canadian Aggregate Study

Benefit	Description	Annual Value	Resources	Capacity
Access				
Referring physicians	Efficiency improved by 50–60 minutes/week	$160–190 million	N/A	N/A
Turnaround time	30–40% improvement in examination turnaround time	N/A	N/A	Turnaround time reduced by 10–24 hrs
Patient transfers	Unnecessary patient transfers avoided	$8–14 million	N/A	10,000–17,000 patient transfers avoided
Quality				
Improved remote reporting	Enables 30–40% of radiologists to support care delivery and improves access for remote areas			
Productivity				
Technologist productivity	25–30% improvement in technologists' productivity	$122–148 million	2,400–2,900 equivalent technologists	8–10 million examinations
Radiologist productivity	25–30% improvement in radiologists' productivity	$169–203 million	450–540 equivalent radiologists	9–11 million examinations
Duplicate examinations	2–3% reduction in unnecessary duplicate examinations	$47–71 million	240–358 equivalent technologists 43–63 equivalent radiologists	0.8–1.3 million examinations
Film costs	Elimination of film-related cost of materials and operations	$350–390 million	N/A	N/A
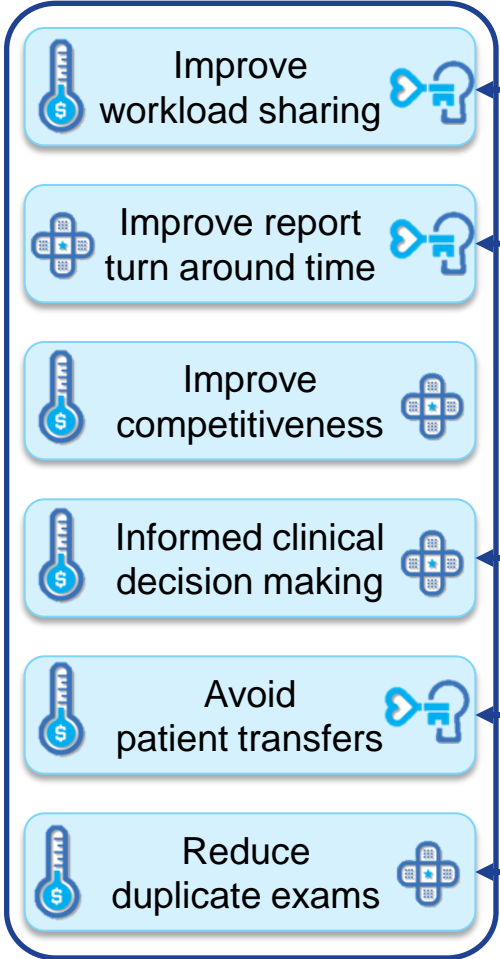
Thank you!

Empowering e-Health
to Enhance Patient Care

Gianluca.deglistefani@ge.com