Developing Clinical Archive Technology to Integrate Regional Health

Helen Bager
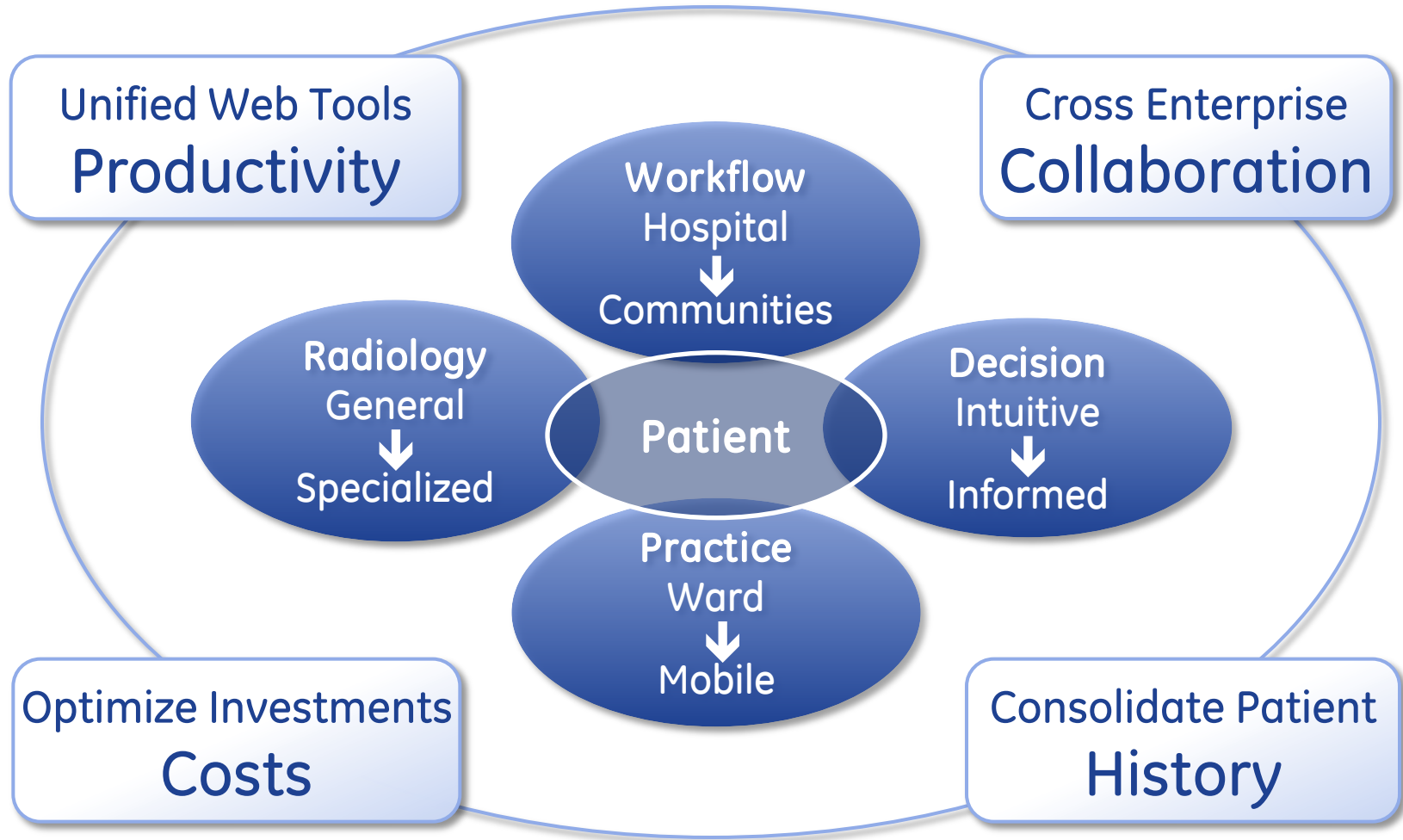Sales Manager Nordic
GE Healthcare IT

imagination at work
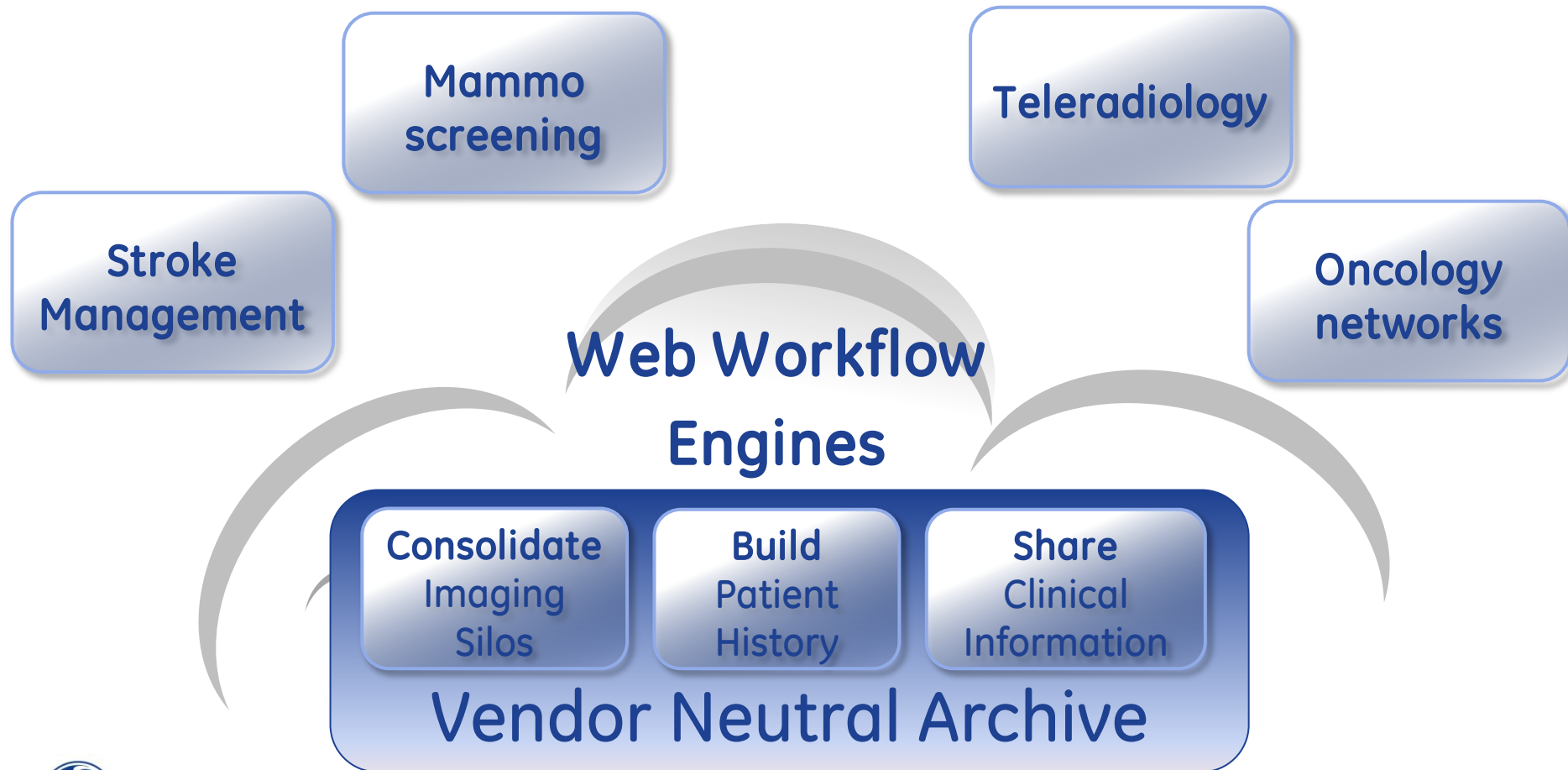
Towards integrated collaborative care

Unified Web Tools
Productivity

Cross Enterprise
Collaboration

Workflow
Hospital
↓
Communities

Radiology
General
↓
Specialized

Patient

Decision
Intuitive
↓
Informed

Practice
Ward
↓
Mobile

Optimize Investments
Costs

Consolidate Patient
History

imagination at work

Driving New Requirements

Vendor Neutral Archive – a Foundation for collaborative care

Mammo screening

Teleradiology

Stroke Management

Oncology networks

Web Workflow Engines

Consolidate Imaging Silos

Build Patient History

Share Clinical Information
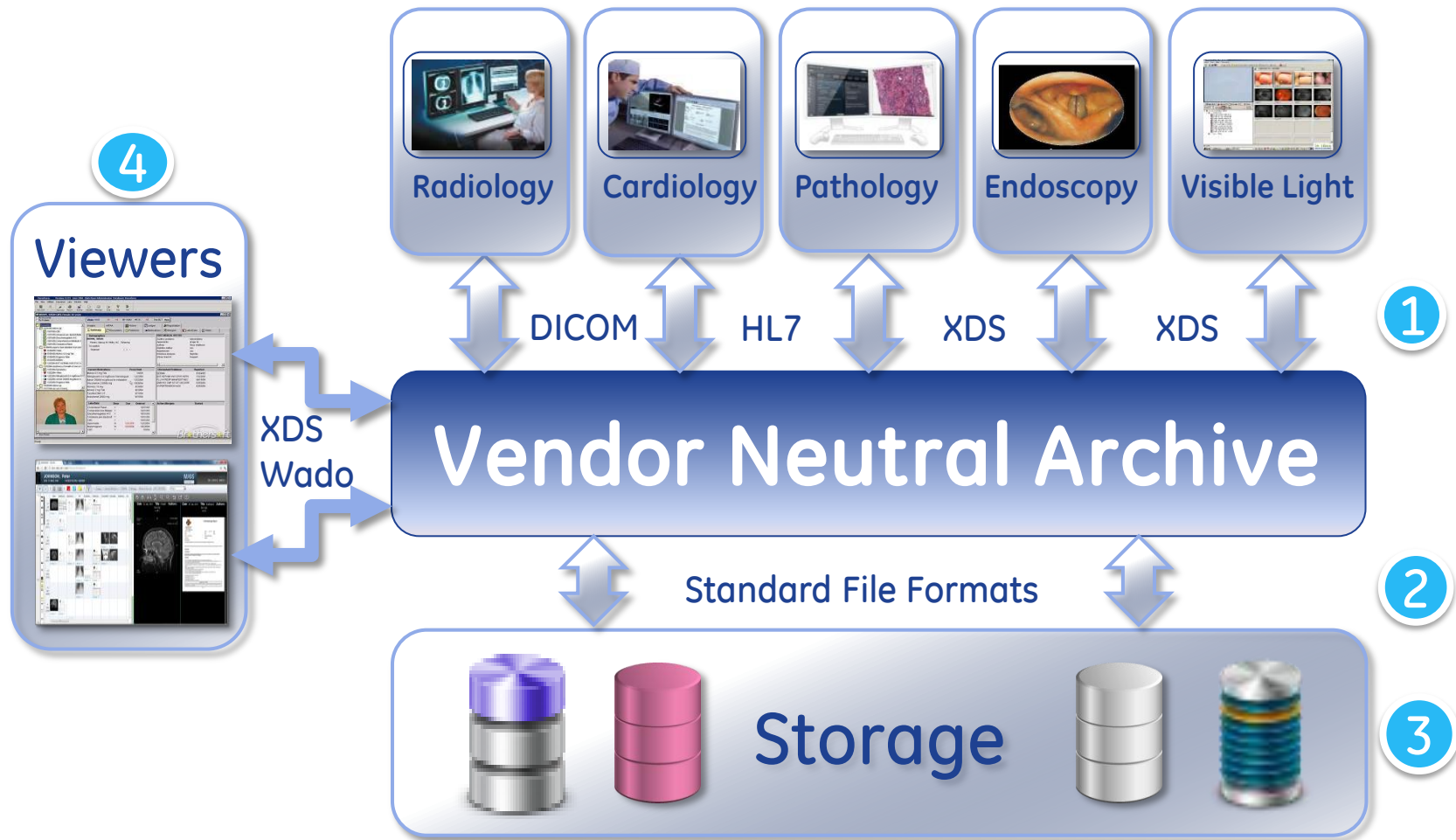
Vendor Neutral Archive

Clarifying the concept

Vendor Neutral ?

Archive ?

Design Principles: Vendor Neutral?

Design Principles: Archive?

Vendor Neutral Archive Value

VNA – Level 4
Regional patient history

VNA – Level 3
Enterprise-wide clinical data consolidation

VNA – Level 2
Enterprise Imaging consolidation

VNA – Level 1
PACS Independence

Cross-Enterprise Patient Information Repository
Multi-PID (MPI), gateway to image exchange

Enterprise Multi-specialty Archive
Connecting to 'Ologies, Patient registry

Enterprise DICOM Archive
Multi-PACS, cardiology

Departmental Archive
DICOM/HL7 Archive
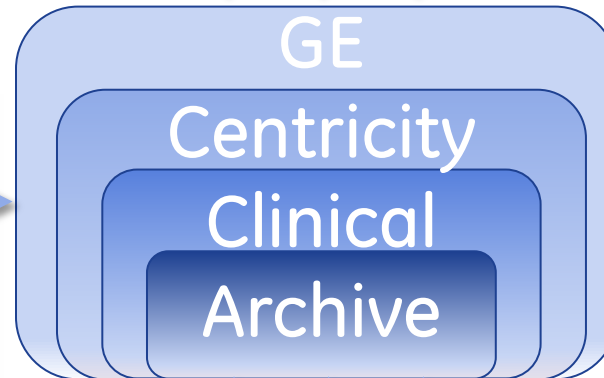
Vendor Neutral Archive Level 1-4

Patient History Access

- Patient data display
- Zero footprint
- Easy to integrate
- XDS enabled

Radio	Cardio	Patho	Endos	Vis. Light

VNA Level 1 to 4

- DICOM & Non DICOM
- Multi sites - eMPI
- Virtual archives, ILM..
- Cloud ready

GE Centricity Clinical Archive

Storage Neutral
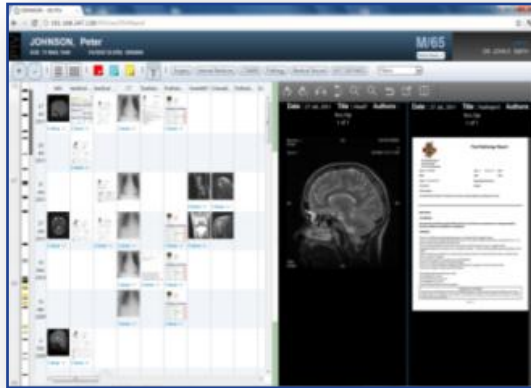
VNA L1: Southern and NWWM Clusters (UK)

- ~60 million exams – 1PB
- 40% of England : 20M patients, 72 NHS trusts
- Average uptime of 99.98%

VNA L2: Västra Götaland Region (Sweden)

- Sweden 2nd largest region
- 1.5 million residents
- 17 hospitals
- Multivendor RIS/PACS

VNA L3: Antwerp Univ. Hospital (Belgium)

- 600 beds hospitals
- 500 k exams per year
- Multivendor IT systems

VNA L4: NHS Wales (UK)

- 3 Million patients
- Oncology Multivendor IT systems
- Welsh eMPI/RIS

GE's strategic vision

Enabling integrated collaborative care

		Productivity	Collaboration	Patient History
		Unified Viewing	**Integrated Workflows**	**Vendor Neutral Archive**
Community *Dynamic*		Mobility, Access to information	Workload sharing	Cloud solutions
Enterprise *Open*		Web viewing for all	Multidisciplinary collaboration	Full patient History
Department *Connected*		3D Integrated web viewing	Efficient Team workflow	Information Sharing
Radiologist *Specialized*		Highly specialized apps	Effective Clinical workflow	Fast Access to priors

Optimize Costs

imagination at work