



GIG
CYMRU
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WALES

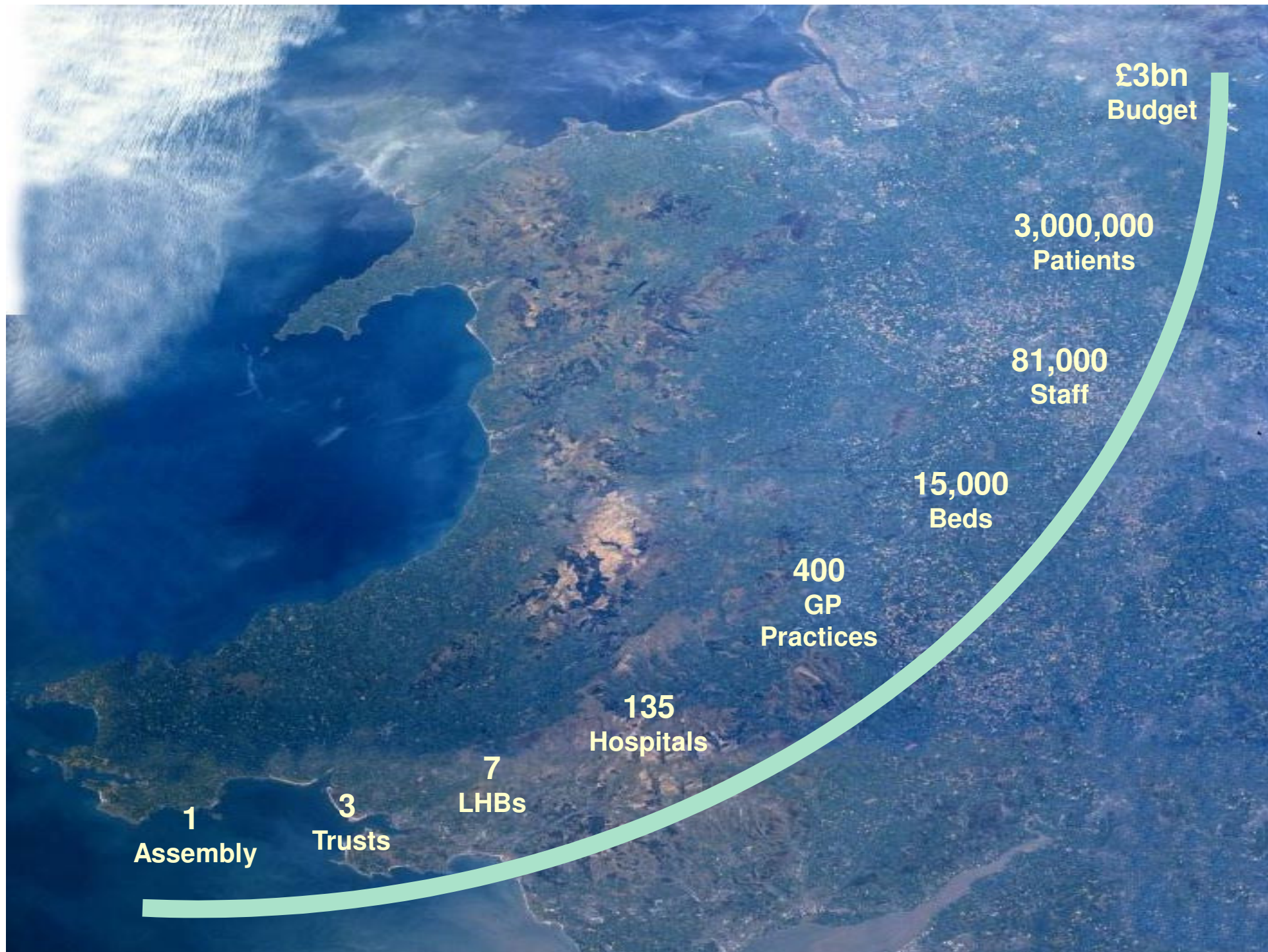
Gwasanaeth
Gwybodeg
Informatics
Service

Strategy, standards and progress

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The Challenges of NHS Wales



Severe financial pressures from austerity



Fewer specialist service hospitals



Difficulties finding appropriately qualified staff



Major reconfiguration



Specialist services lacking critical mass



Community /social care integration

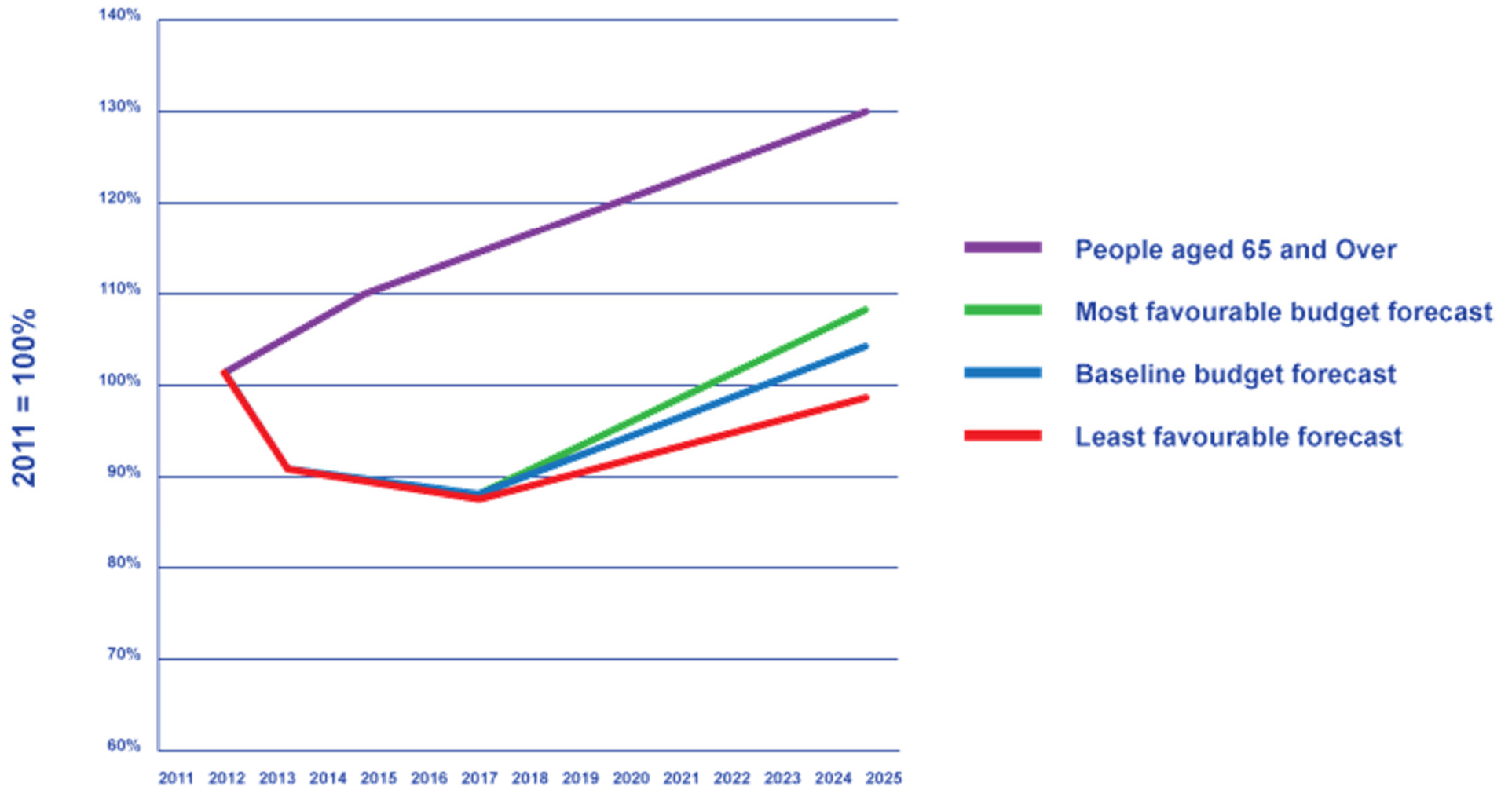


Cross-organisational boundaries

Ageing Poulation v Funding

2011-2025

Sources: Institute for Fiscal Studies; StatsWales



Distinct Welsh Informatics Programme Elements

- **Informing Healthcare Strategy 2003**

- National information services for local use
- Incremental by design
- Corporate not central
- Engagement and persuasion
- Led by service transformation not technology

- **National leadership**

- programme management and funding

- **NHS Wales Informatics Service**

- **Governance**

- integrates national and local organisations together

Technology Principles

Incremental by design

Remain valid in the face of services redesign

Permits differing organisational priorities during migration

To enable interoperability

Pragmatic use of standards

National Architecture

Service-oriented

Interoperability key factor - business functions as services

Service messages as well as defined payloads can be consumed by participating systems

‘Messaging Fabric’ at the heart of the architecture

Synchronous and asynchronous ‘message’ based integration

Technical standards, documentation and guidance

Governance and assurance

Core Architecture Services

User Identity and Authentication (NADEX)

Patient Identity (MPI)

National Reference Data Service

Providing access to the Patient's Records

Providing users with a single application experience

Transfer care between staff and organisations

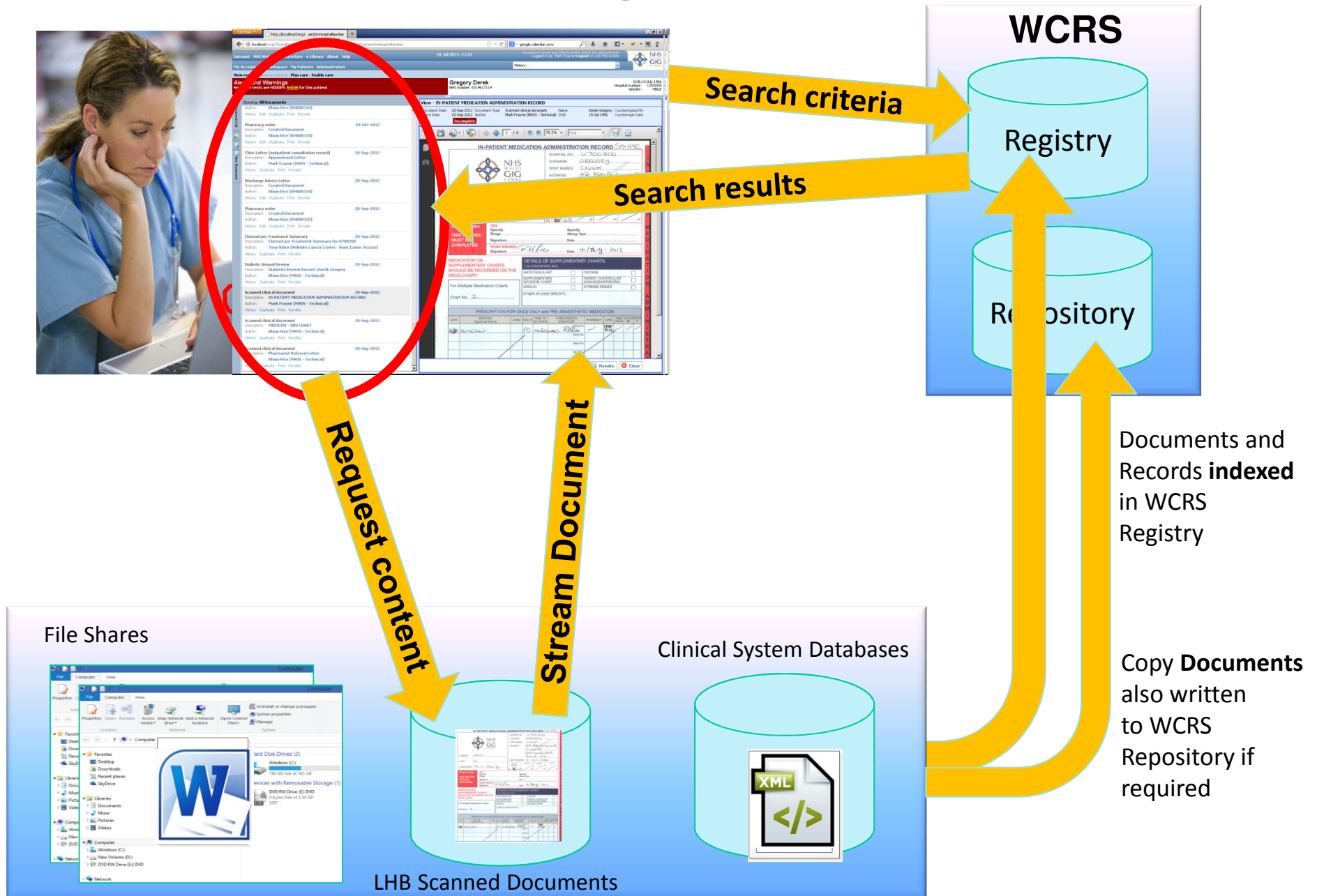
Alerts and warnings service

Access to schedules and care plans

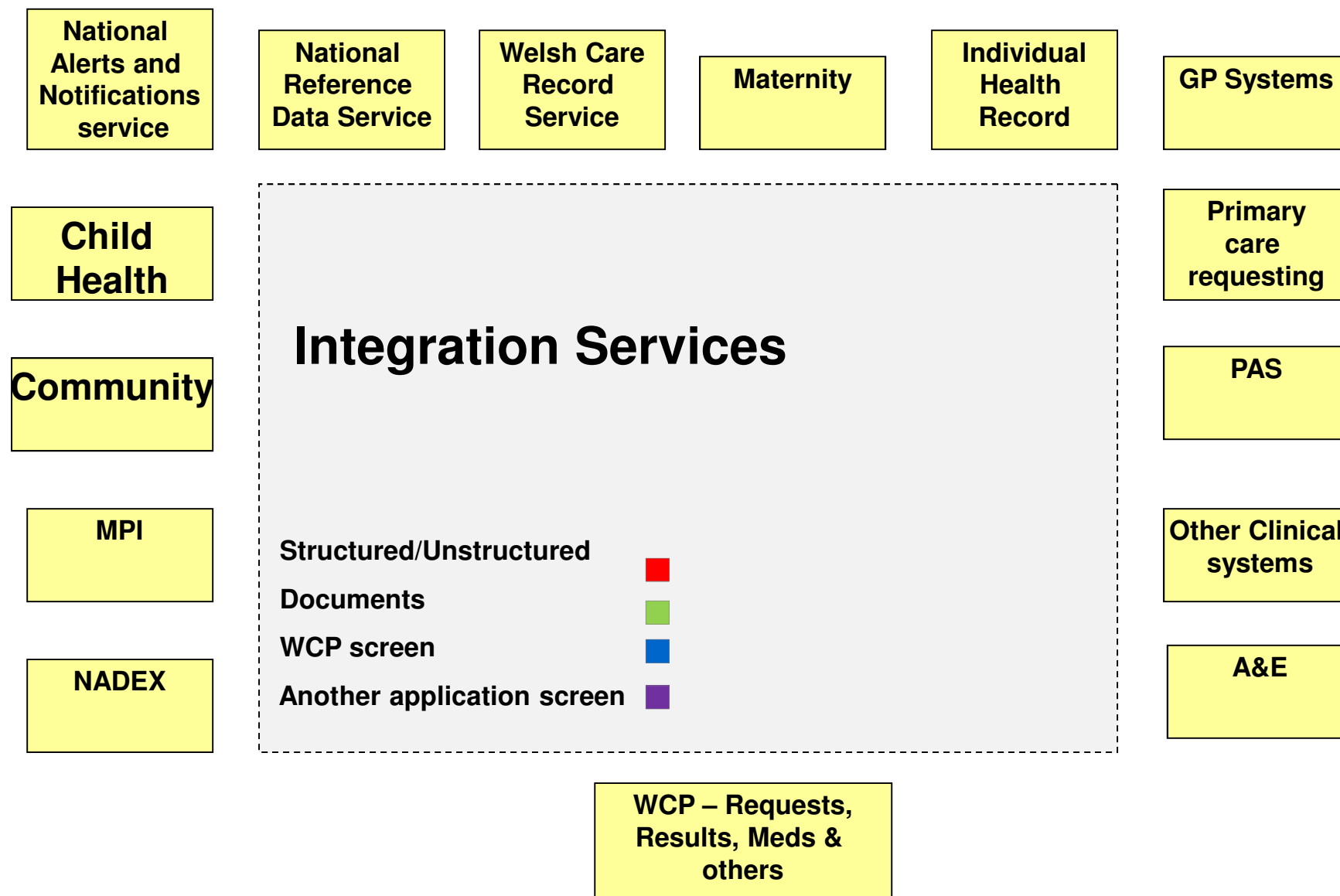
National Audit Services

Welsh Care Record Service

Viewing records



National component Architecture



LIMS Interoperability Architecture

Intersystems Pathology application (Intersystems TRAKcare)

Legacy CSC and Masterlab Lab Systems

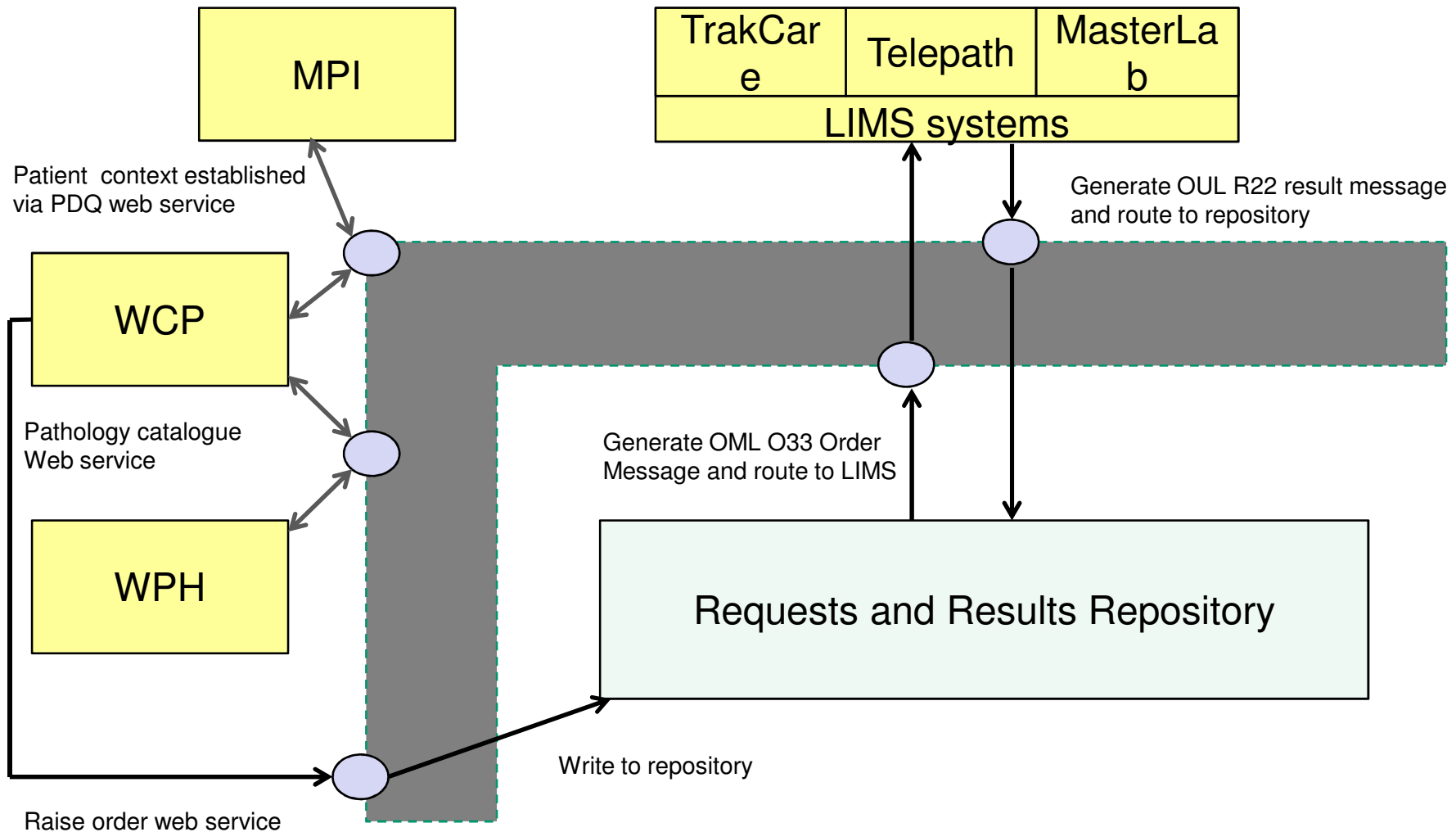
Master Patient Index (MPI) via IBM Initiate

Patient Record/Report Viewing systems via the Welsh Clinical Portal

Test requesting and results reporting repository

Pathology catalogue and rules engine (Wales Pathology Handbook)

LIMS Interoperability Architecture diagram



XDS Image Sharing Architecture

RADIS RIS

Fuji PACS

Synapse

XDS Registry/Repository

ACUO/Perceptive

Vendor Neutral Archive

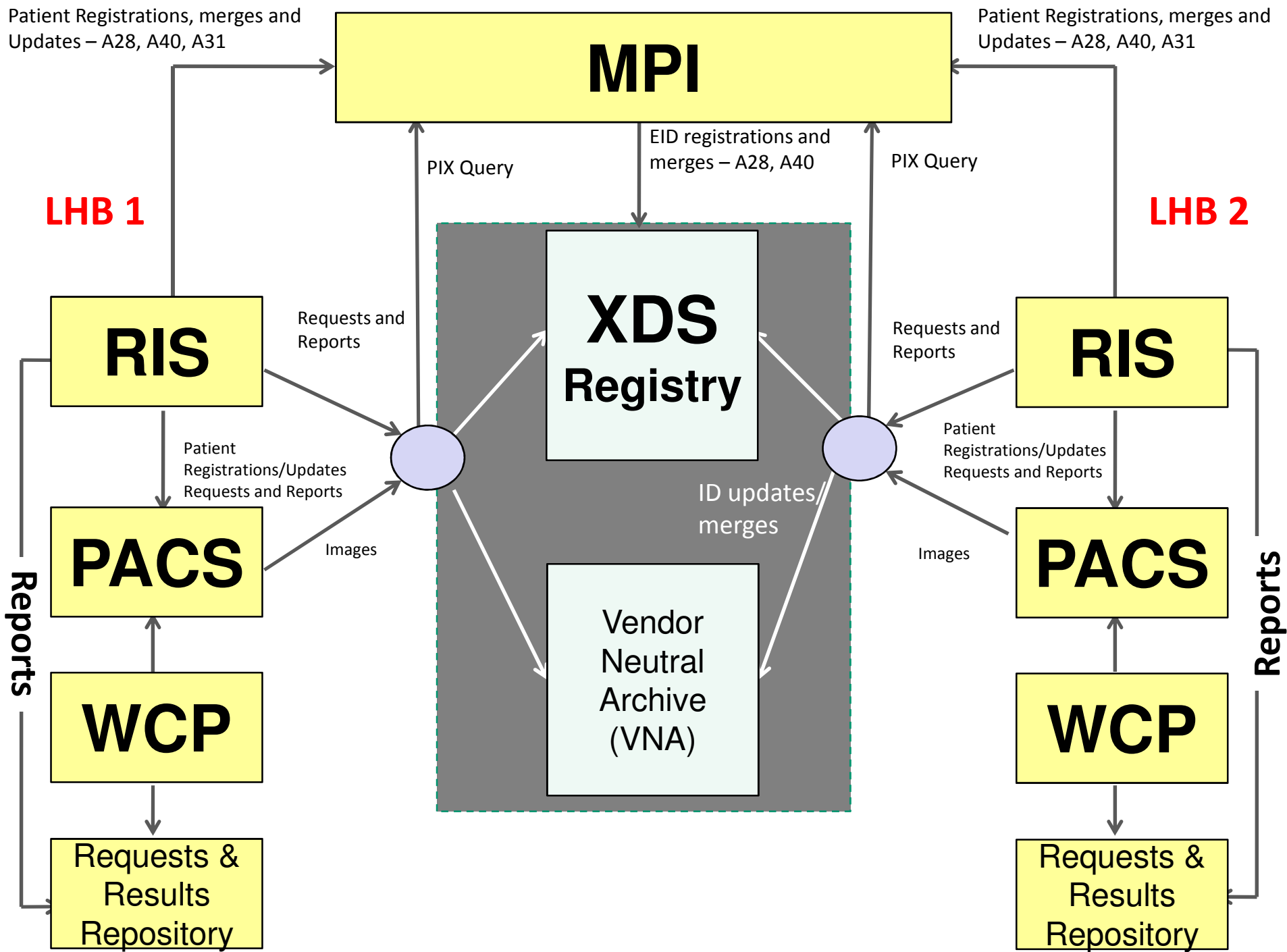
ACUO/Perceptive

Master Patient Index (MPI)

IBM Initiate

Patient Record/Report Viewing systems

Welsh Clinical Portal (WCP)



Conclusion

Use the “right” standards

Often standardisation is good enough – pragmatism

Integrate within an architecture and technical platform

Publishing NHS Wales Interoperability toolkit (the SDK)

We have evidence of success!

This is a long term journey and requires strong leadership