

Welsh Technical Standards Board

WTSB

Agenda

- **Welcome / introductions**
- Terms of reference / discussion of membership
- Functioning of the board
- Proposed technical standards
- Links with other groups
- Any other business?

Scope

- Integration standards (interoperability standards)
- Software development standards
- Infrastructure standards
- Cyber security standards

Our jobs

- the identification, assessment and setting of standards and for assuring the application of agreed standards across the national architecture.
- the ongoing maintenance of the catalogue of standards, including:
 - establishing a road map to support the implementation of agreed standards, including how each standard should be implemented and used
 - periodically assessing agreed standards to ensure they remain relevant and appropriate
 - establishing a road map to support the decommissioning of standards
- identifying opportunities locally, regionally and nationally to adopt standards providing quick wins, case studies and learning to inform the road map.
- embedding an interoperability framework within NHS procurement at a local and national level to ensure that procurements are appropriately scored as to their level of interoperability.

GDS design principles

- Start with user needs
- Do less
- Design with data
- Do the hard work to make it simple
- Iterate, then iterate again
- This is for everyone
- Understand context
- Build digital services, not websites
- Be consistent, not uniform
- Make things open; it makes things better

- Start with user needs

Who are our users?

- Do less

Government should only do what only government can do

- Design with data

Let data drive decision-making. Build in analytics

- Do the hard work to make it simple

Start small and iterate wildly

- Iterate, then iterate again

Accessibility. Hearing impaired, vision impaired, consider those who find services hardest to use

- This is for everyone

People, people, people!
Where, when and how?

- Understand context

- Build digital services, not websites

Uncover user needs

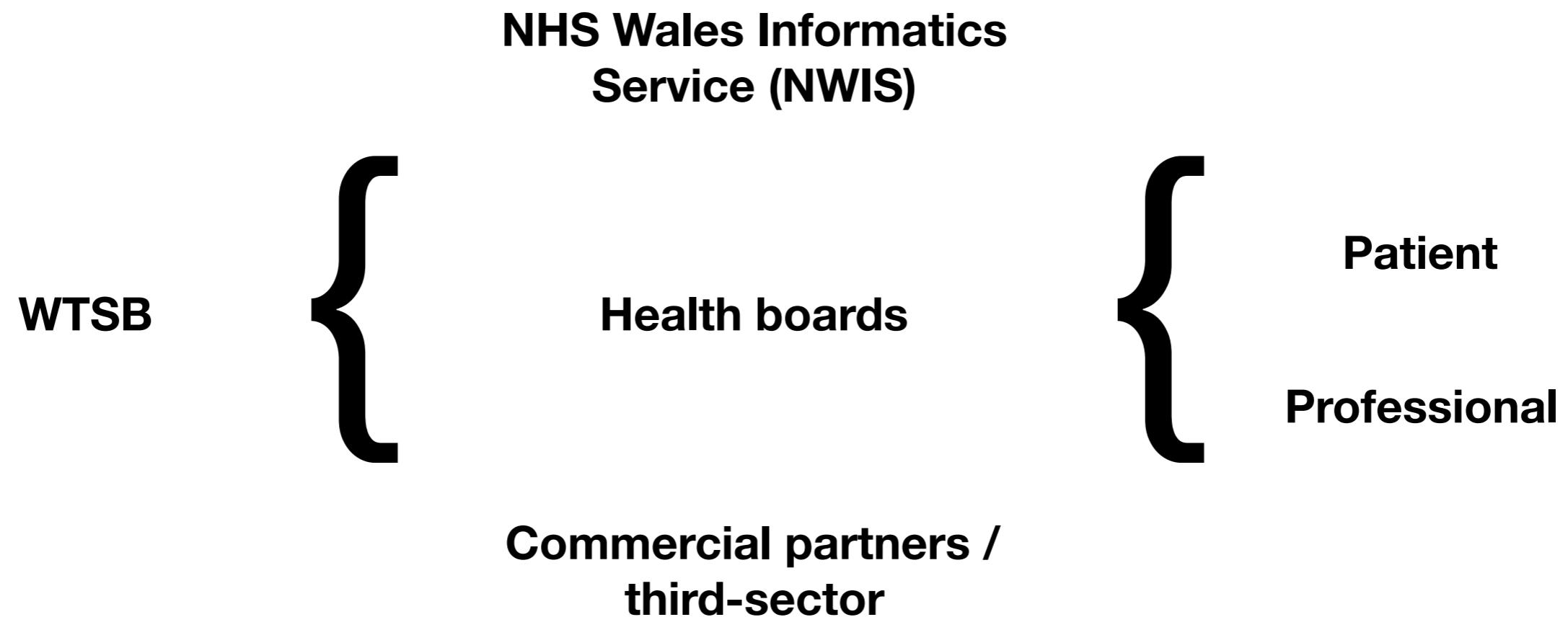
- Be consistent, not uniform

Language (nouns, verbs) and design patterns more important than mandates

- Make things open; it makes things better

Share what we're doing

Who are our users?



Information for you

Connect with health & social care.

Using technology, digital tools and apps.

Look after your own well-being

Supporting professionals

Health & Social Care Professionals use digital tools to do their jobs more effectively.

'Once for Wales' Creates solid platform between systems.

Improvement and innovation

industry academia

- Improve decision making
- Better use of data
- Plan service change
- Improve quality and performance.

A planned future

Joint planning, partnership working & stakeholder engagement ensure opportunities are prioritised.



Monitor my health
Manage my health
Access my data

Contribute to and control my data

Informed lifestyle choices that promote well-being and active engagement of patients in their own care

Right information at the right time
Support for clinical decision making
Caring for individual patients
for groups of patients & our services

Evidence-based care that is proven to deliver needed outcomes for each patient while ensuring safety

Sustainable approaches that continuously enhance healthcare value by reducing cost at the same or better quality

Innovation to advance the frontiers of medicine and boost R&D productivity in discovery, development and safety.

Transformed services

Joint planning

Partnership working and stakeholder engagement at local, regional and national level

[Adapted from Informed Health and Care 2015 & McKinsey: "Big Data revolution in healthcare", 2013]

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Membership

Member	Job Title and Orgainsation
Mark Wardle	Consultant Neurologist, Cardiff and Vale University Health Board
James Chess	Chief Medical Information Officer, Abertawe Bro Morgannwg University Health Board
Ann Wrightson	Head of Information Architecture, Aneurin Bevan University Health Board
Gary Bullock	Director of Application Development and Support , NHS Wales Informatics Services
Rob Jones	Head of Applications Design, NHS Wales Informatics Service
Mark Frayne	Lead Applications Architect, NHS Wales Informatics Service
Liz Cook	Head of Digital Development, Welsh Government
Matt John	Assistant Director of Informatics, Abertawe Bro Morgannwg University Health Board
Andrew Nelson	Assistant Director of Informatics, Cardiff and Vale University Health Board
Phil Clee	Information Technology, Cardiff and Vale University Health Board
Academic representative - tbc	Prof Tom Crick?
Matthew Perrot	Strategic Contracts Manager, NHS Wales Informatics Services

Q

- Academic representation
- Security
- Working-groups and external input?

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Functioning

- Link with WISB - what are procedures used there?
- Catalogue of existing systems / services and standards already used?
- Roadmap? Early wins
- Public: <https://api.wales.nhs.uk> or <https://standards.wales> : three consumers : NWIS, HBs, Commercial partners
- External expertise?

Menu



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Amazon Aurora Backtrack

The undo button for your database



AWS Database Migration Service

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Appendix A SLA (2).docx ...

Appendix A SLA (1).docx ...

Appendix A SLA.docx ...

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Show All

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Amazon Web Services - Documentation



Documenting Amazon Web Services and SDKs

Seattle, WA

<http://aws.amazon.com/documentation/>

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aws-mobile-developer-guide

The public documentation on docs.aws.amazon.com for AWS Mobile Hub and SDKs.

Python 22 ⚡ 25 1 issue needs help Updated an hour ago

Top languages

Python Java Go C#

amazon-s3-developer-guide

The open source version of the ^
feedback & request
making

By default, IAM users don't have permission to create or modify AWS resources. To grant IAM users permission to create or modify AWS resources, you must create policies using AWS Identity and Access Management (IAM). IAM policies grant permissions to specific resources and API actions. You attach an IAM policy to the IAM users or groups that require the permissions it grants. For more information, see [Access Management](#) in the IAM User Guide.

Authentication and Access Control for Application Auto Scaling

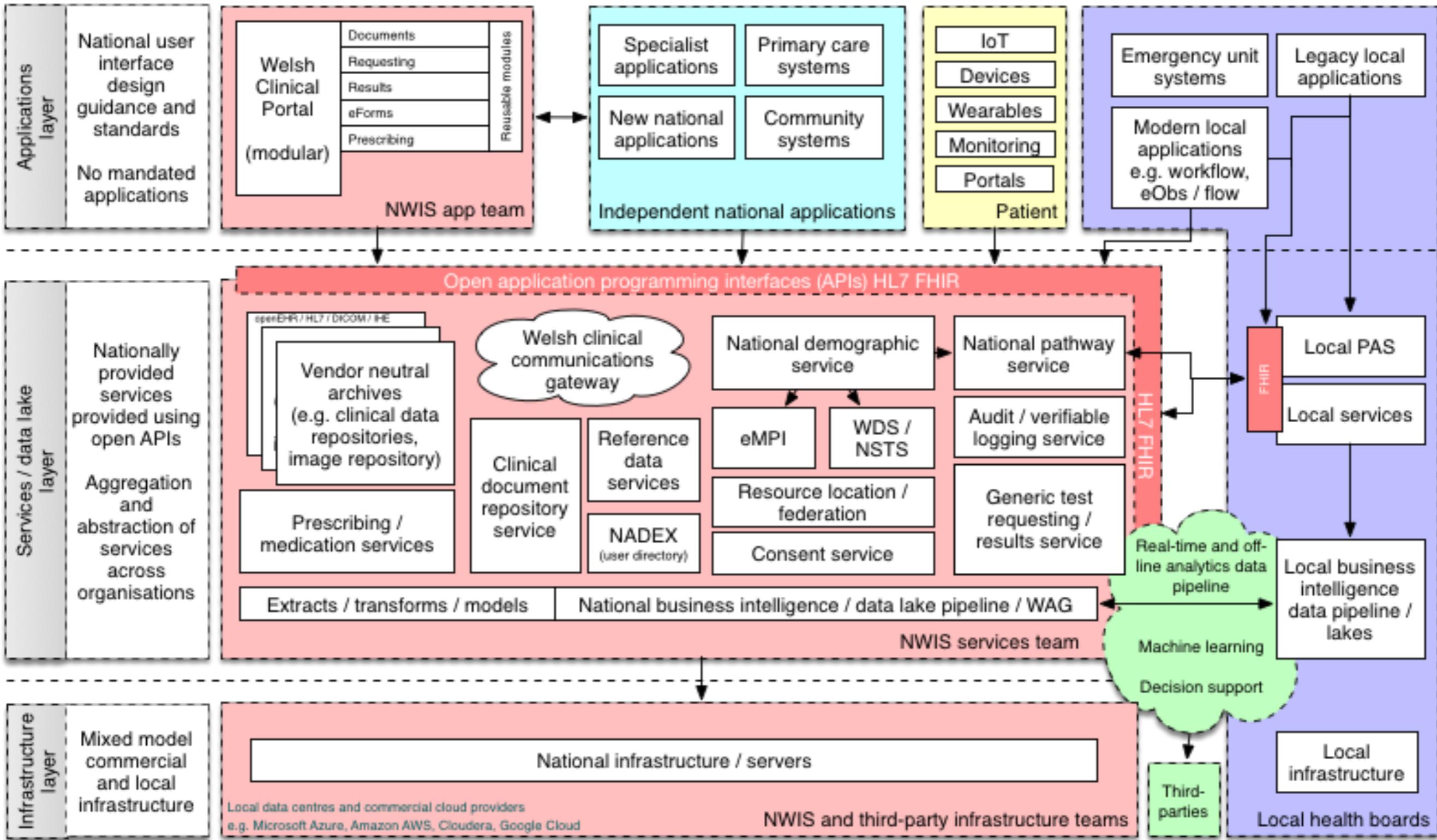
Application Auto Scaling Actions

and all Application Auto Scaling actions in an IAM policy. Use the following prefix with the name of the action.

For example:

Open transparent

- Twitter
- Blog
- Email list (private?)
- Documentation / reference data
- Agenda / minutes / forum



Shared services Single record Collaboration Cooperation

NWIS = Health Boards = Third-parties

A focus on developer productivity / delivery

- Open-source and collaboration experts e.g. Apache Software Foundation (ASF)
 - Software development standards (DevOps, Agile, infrastructure-as-code)
 - Industry representatives, commercial/integration/interoperability

External expertise



Priority workstreams

- Identity : security, staff identity, audit trail logging, citizen identity, federated security expertise
- Diagnostic test standards (laboratory and radiology)
- Clinical document standards
- Clinical data standards
- Administrative data standards (appointments, scheduling etc)
- Reference data standards

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Links

- NHS Digital
- NHS Scotland SCIMP
- INTEROpen
- HL7 UK
- WISB
- NWIS, WAG and health boards

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