

Shared Services: Towards a distributed service model for delivery of NHSScotland's laboratory services.

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Subject Matter Expert
Health Portfolio
Laboratories Programme

SPAN
COSLA 3rd November 2017



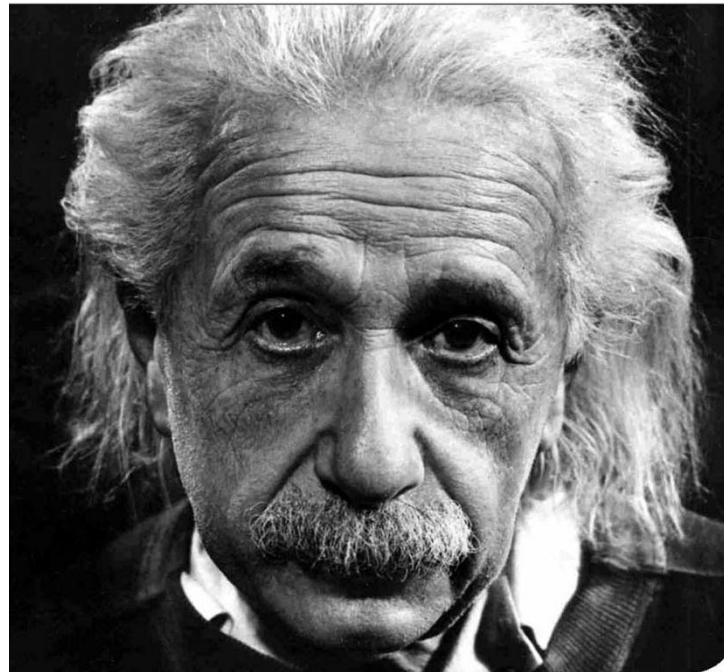
Laboratory medicine underpins healthcare delivery

“70 - 80%* of clinical medicine decision making is predicated upon, or confirmed by, or documented by medical laboratory test results”

Impacts of diagnostic services are whole system, therefore our thinking about these services and consequences of change to them should be whole system!

[*Report of the Review of NHS Pathology Services in England Chaired by Lord Carter of Coles Pathology Quality Assurance Review. Chaired by I Barnes Report 2014](#)
[Dighe, A. S. Medicolegal liability in laboratory medicine, Semin Diagn Pathol, 2007;24:98-107](#)

**“We cannot solve our problems with the same thinking we used when we created them”
(A. Einstein)**



Structure of this Presentation

Context

Distributed Service

Next Steps



Context

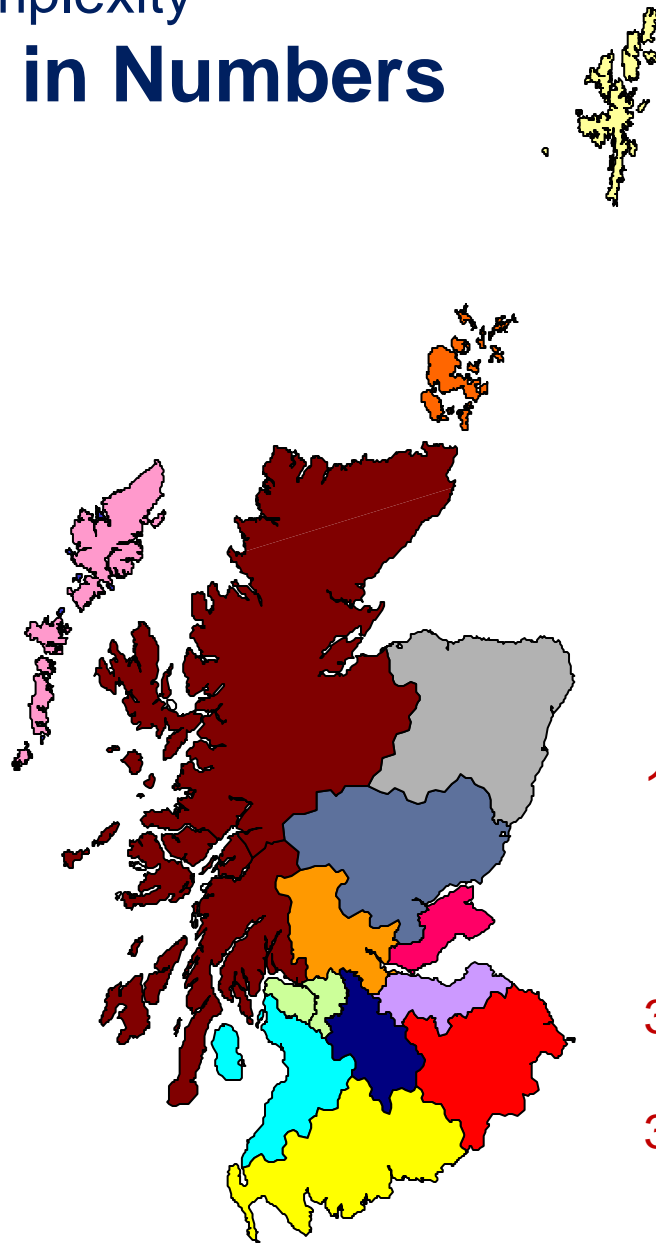


Organisational Complexity

NHS Scotland in Numbers

1 Nation

5.3 million People



14 Territorial Boards

2 Special Boards

32 Local Authorities

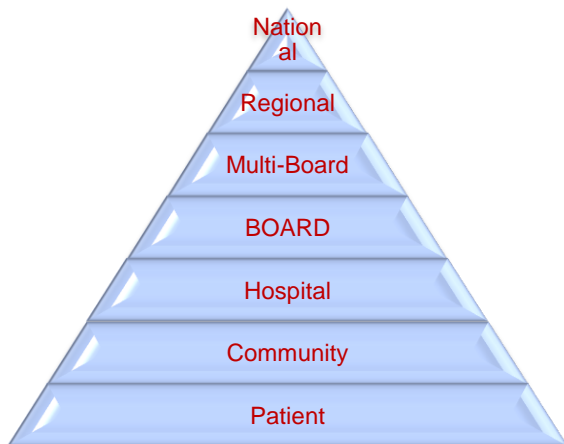
31 Integration Joint Boards

Labs in Scotland PHI Map

Health Services Cost Book
2014 to 2015 R130: -

22 locations 13 boards: -

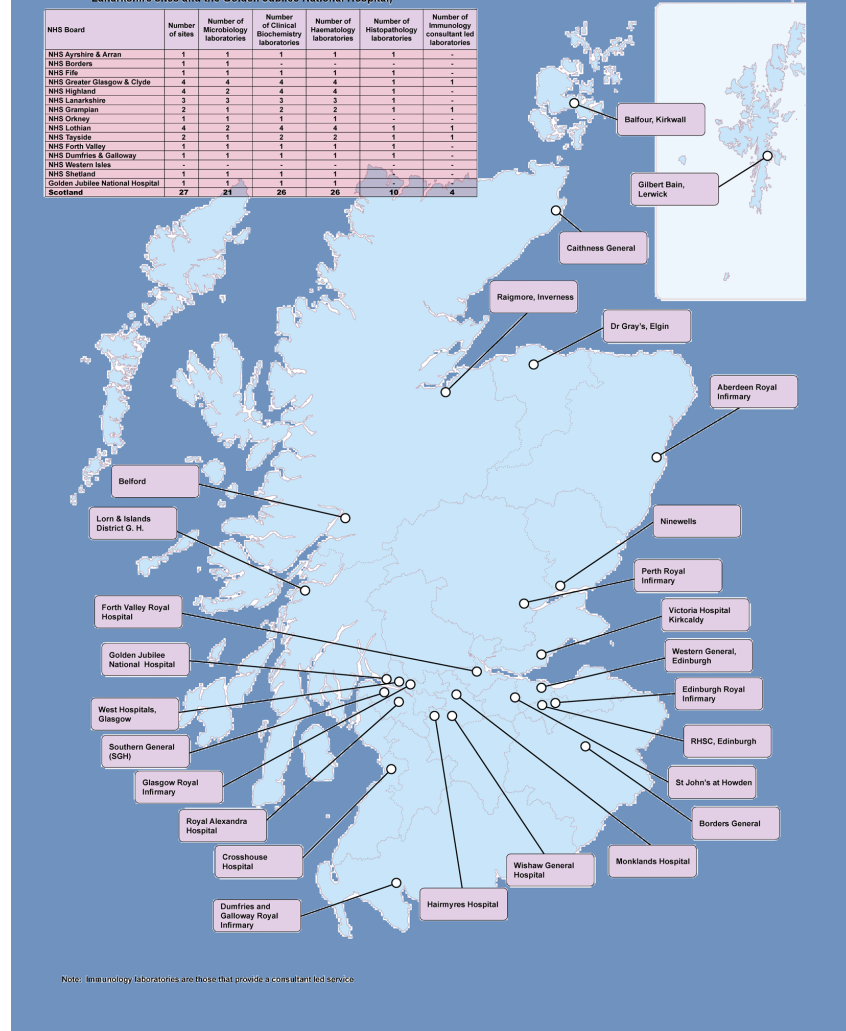
Speciality	Specimens
Microbiology	5 Million
Histopathology	2 Million
Haematology	11 Million
	Tests
Biochemistry	82 Million



Locations providing laboratory services, Scotland, 2015

Sources: Scottish Health Service Costs, year ended 31st March 2015;
Shared Services (Immunology laboratories: additional Grampian, Tayside,
Lanarkshire sites and the Golden Jubilee National Hospital)

NHS Board	Number of sites	Number of Microbiology laboratories	Number of Clinical Biochemistry laboratories	Number of Haematology laboratories	Number of Histopathology laboratories	Number of Immunology consultant led laboratories
NHS Argyshire & Arran	1	1	1	1	1	-
NHS Borders	1	1	-	-	-	-
NHS Fife	1	1	1	1	1	-
NHS Greater Glasgow & Clyde	4	4	4	4	1	1
NHS Highland	4	2	4	4	1	-
NHS Lanarkshire	3	3	3	3	1	-
NHS Grampian	2	1	2	2	1	1
NHS Orkney	1	1	1	1	-	-
NHS Shetland	4	2	4	4	1	1
NHS Tayside	2	1	2	2	1	1
NHS Forth Valley	1	1	1	1	1	-
NHS Dumfries & Galloway	1	1	1	1	1	-
NHS Western Isles	-	-	-	-	-	-
NHS Scotland	1	1	1	1	1	1
Golden Jubilee National Hospital	1	1	1	1	1	1
Scotland	27	24	26	26	19	4



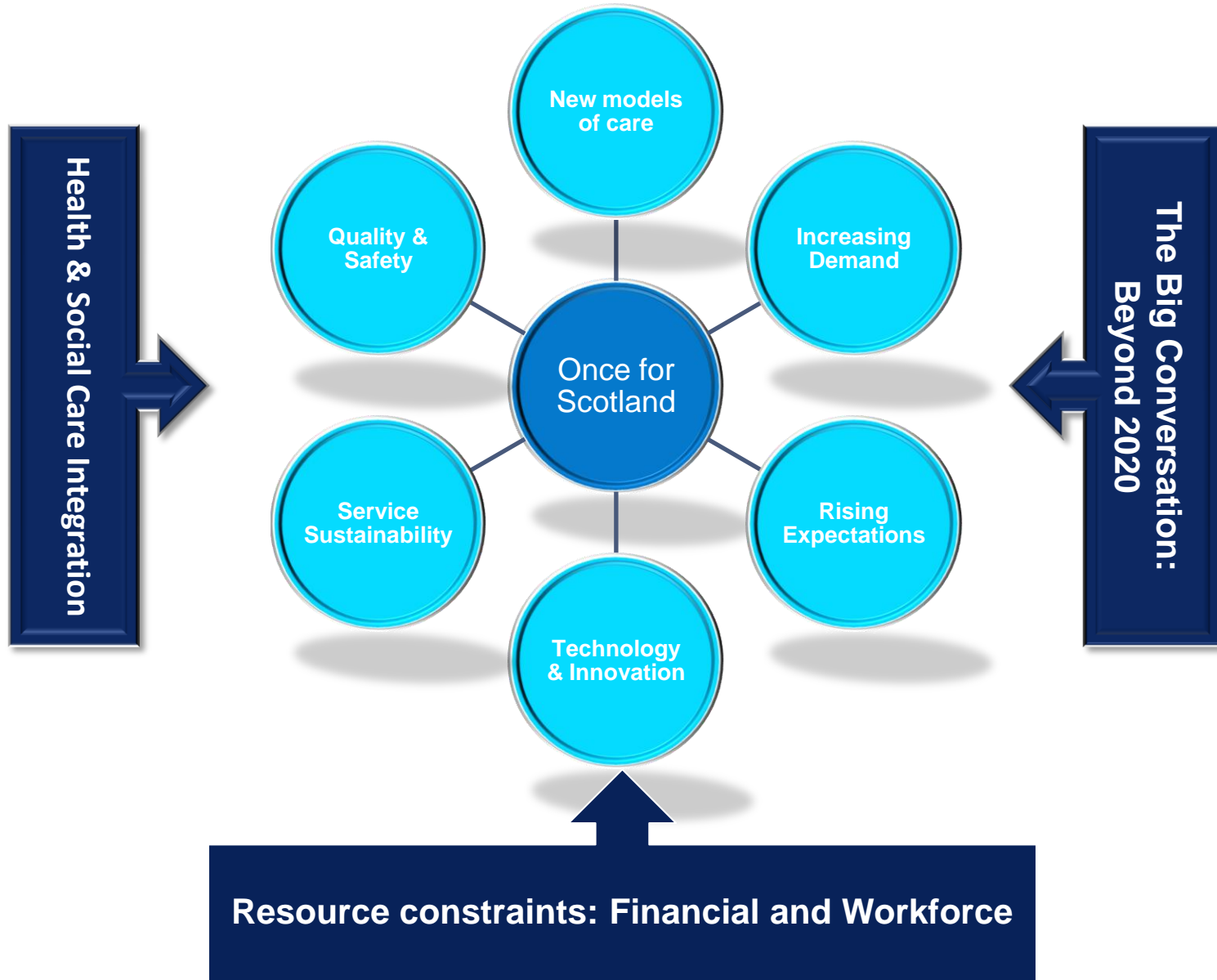
Laboratory services

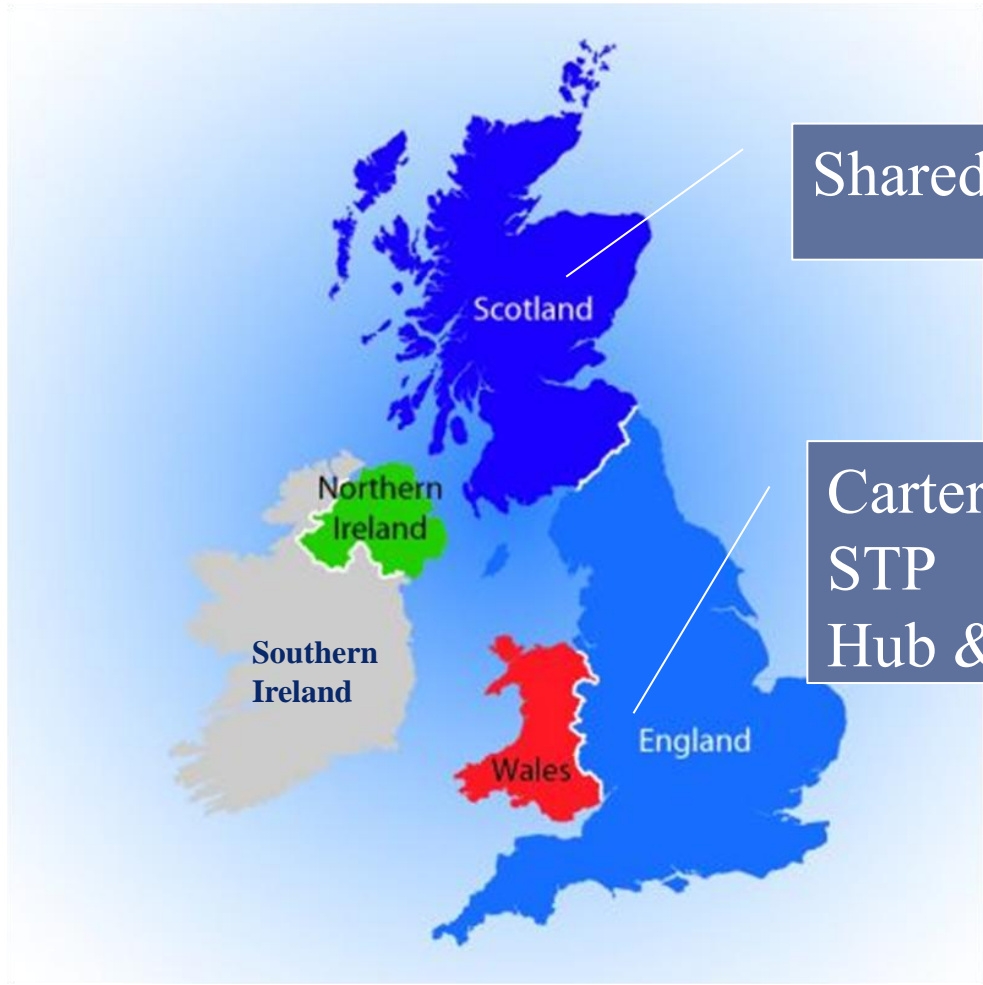
- Current service:
 - 27 laboratory locations, 87 laboratories:
 - 21 Medical Micro
 - 26 Biochemistry
 - 26 Haematology
 - 10 Histopathology
 - 4 Immunology
 - Covering 16 Boards (14 territorial and 2 special)
 - 19 Specialities
 - Approximately 3759 FTE staff
 - Annual costs estimated at £251.6m
 - £178.9m staffing costs
 - £72.7m non-staffing costs

Shared Services Strategy & Policy Context



Drivers of change applying to services





Shared Services

Carter
STP
Hub & Spoke

Making the future happen

evidence for
better health care

nuffieldtrust

The future of pathology services

Briefing

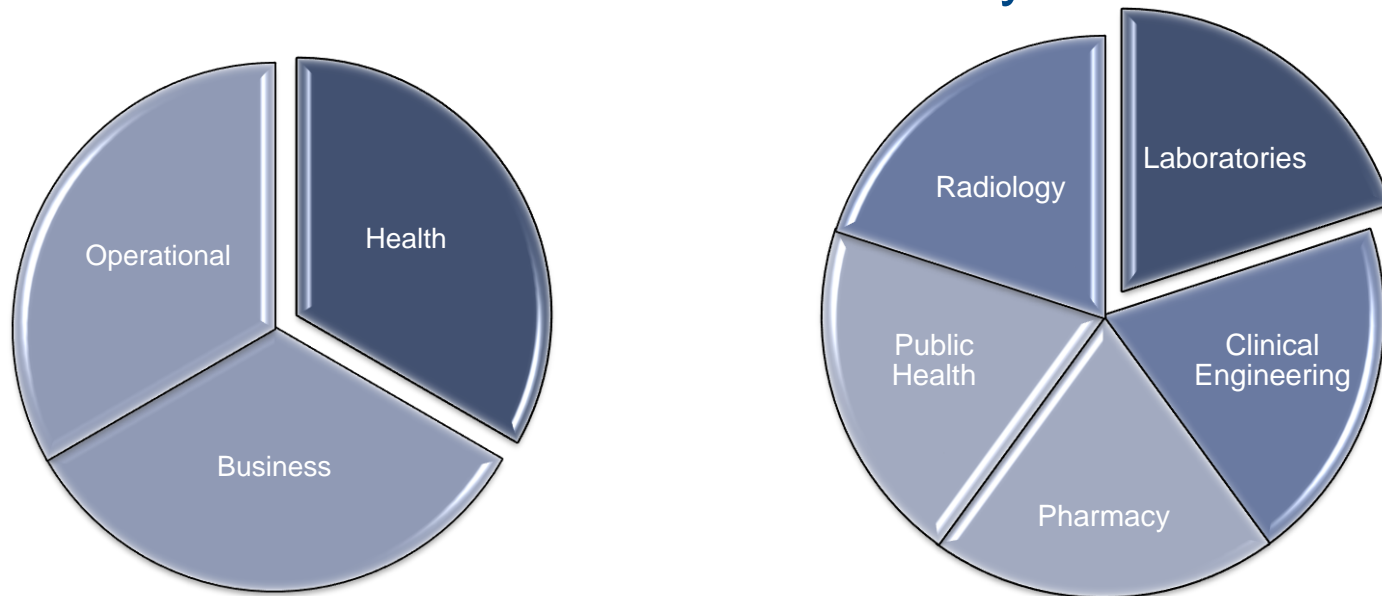
Sasha Karakusevic, Nigel Edwards, Ruth Lewis and Mark Dayan

June 2016

- Far greater opportunities exist for systems that want to be ambitious
- There is scope for new approaches that consider the whole pathway together with Laboratory Medicine
- **Systematic collaboration between sites will deliver greater benefits than consolidation**
- need for better supported IT that is interoperable so patients and other institutions can easily access data
- **Reinvestment of efficiency savings.**

2014: NHSScotland Shared Services

By working differently, Shared Services will deliver new ways of working which are flexible and responsive to the changing needs of NHSScotland for 2020 and beyond



**Transformation service to meet needs.
Once for Scotland**

www.sharedservices.scot.nhs.uk

MDN Paper to DSG Nov 2015



Shared Services Lab Team
2016



Workshops



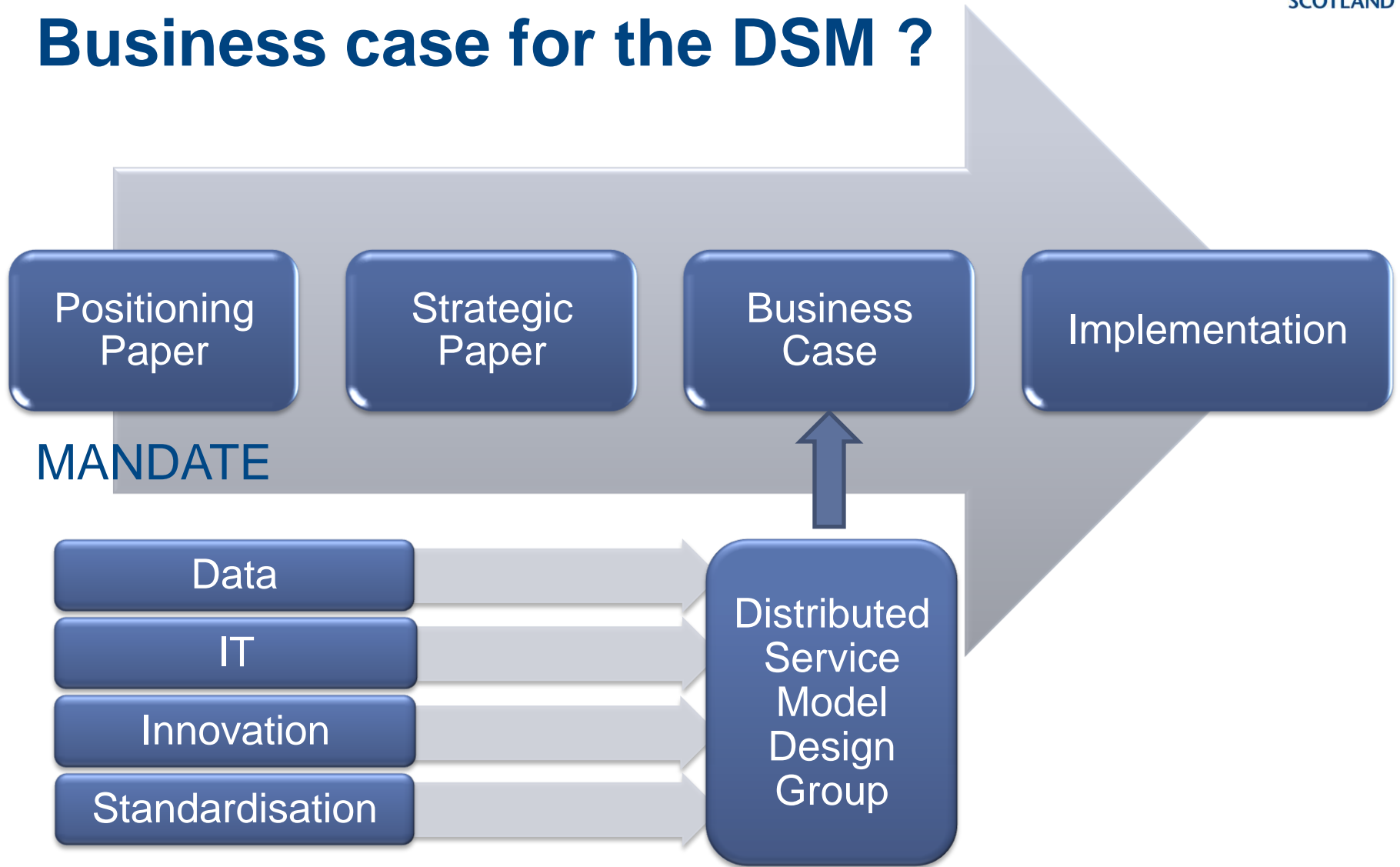
Position Paper to CEs Sept
2016: **D**istributed **S**ervice **M**odel



Strategic case for DSM CEs
August 2017: Guiding Principles

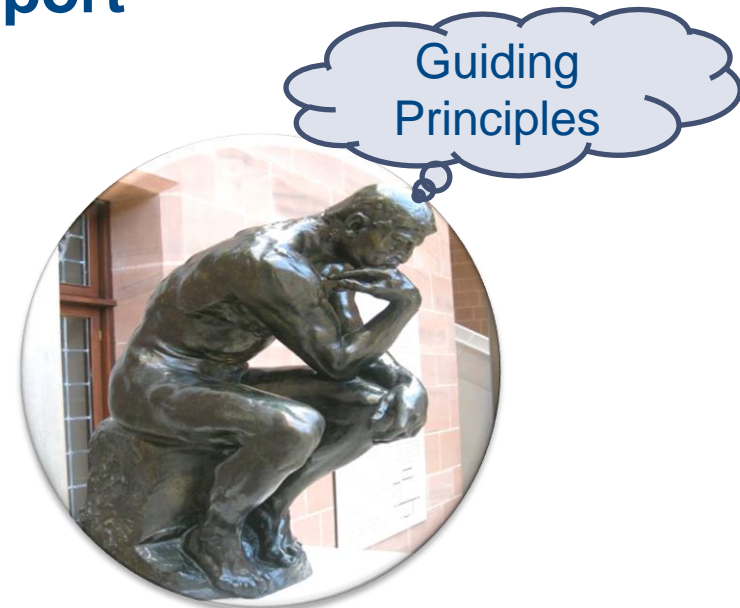
Shared Services

Business case for the DSM ?



We want to achieve: (Business objectives)

- **A future proof model**
- **Service resilience across NHSScotland**
- **A sustainable, resilient workforce**
- **Delivery of 2020 Vision and support transformation**
- **Value for money**



Ambition?

- Right test
- Right place
- Right time

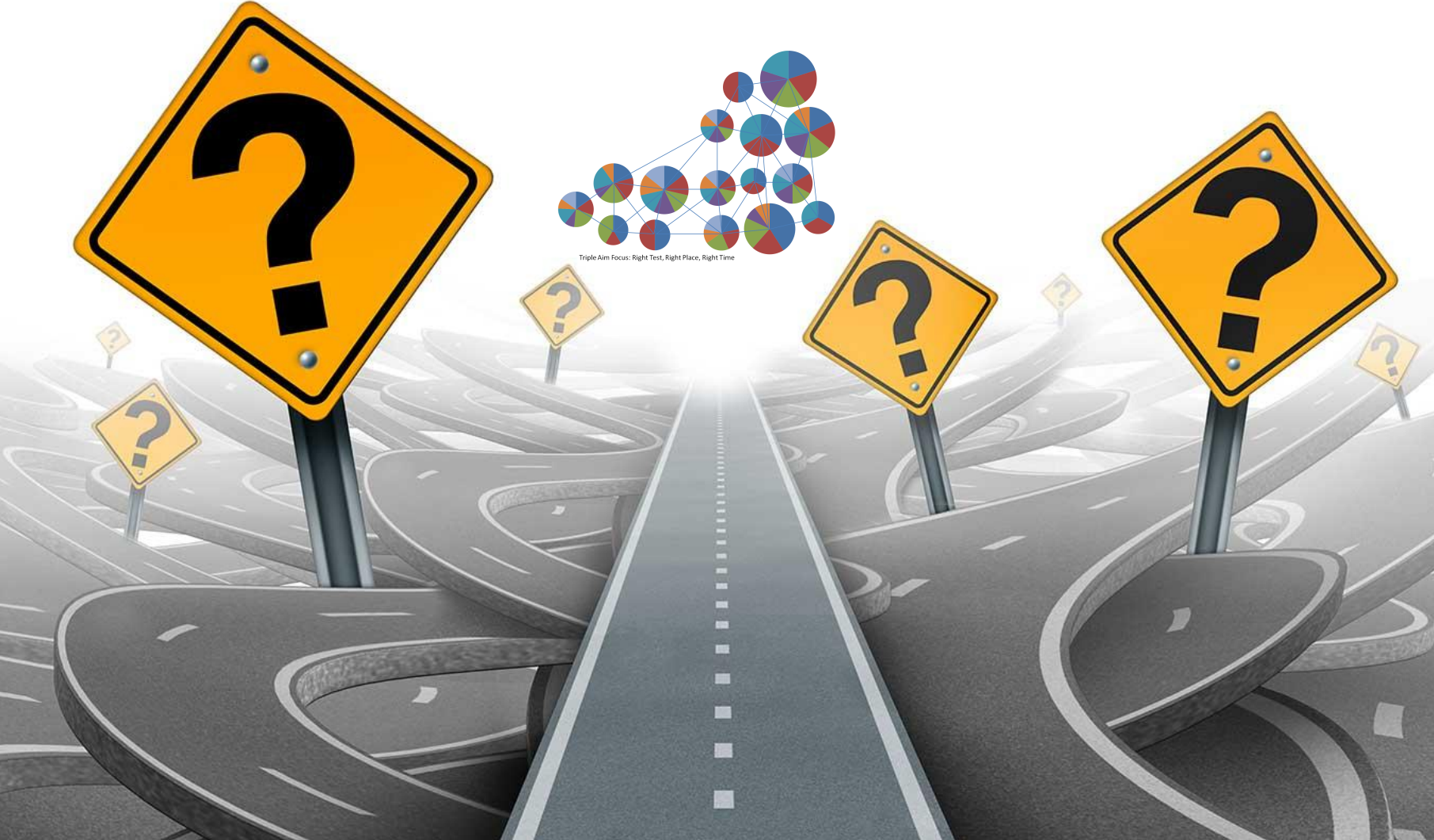


Patient centric,
outcome focussed,
whole system wise

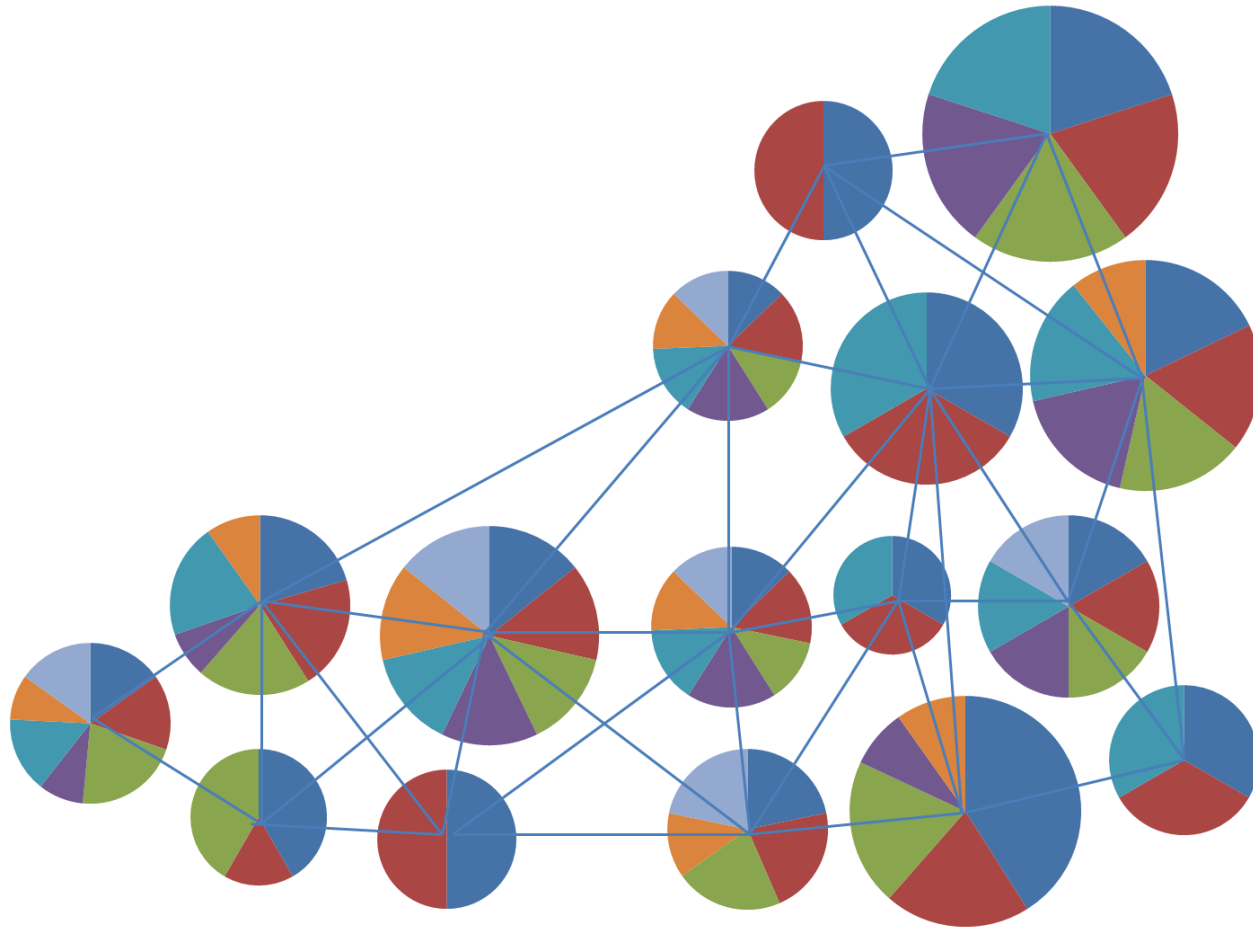


Scotland wide access to
state of the art services
through a distributed service

Road map towards a DSM



Distributed Services Model



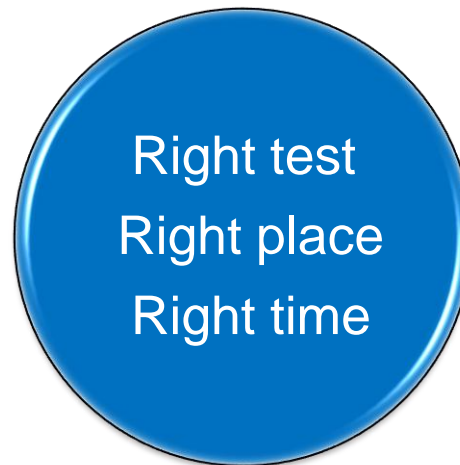
Triple Aim Focus: Right Test, Right Place, Right Time

Shared Services

A Distributed Service

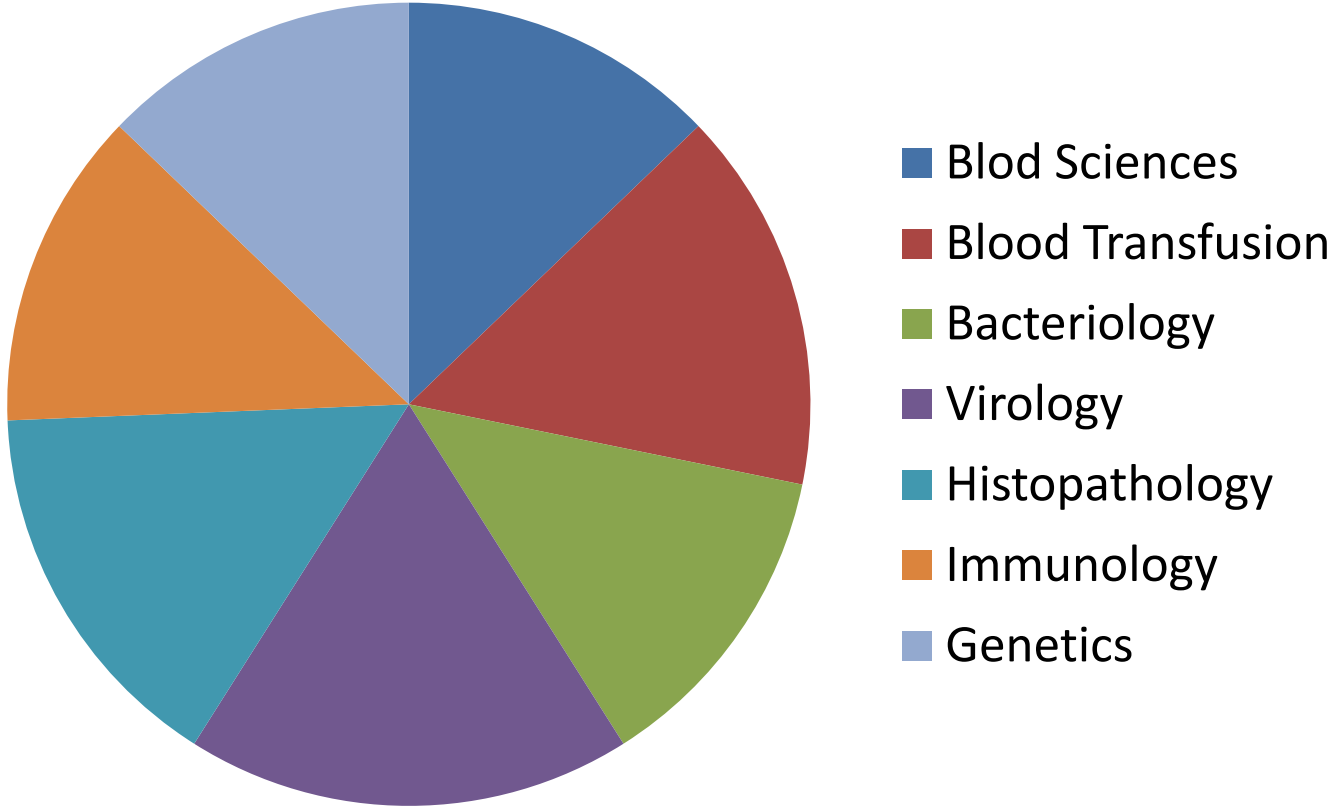
Functional distribution NOT centralisation

“Functional distribution of laboratory resource that enables equitable delivery of high quality health care independent of location.”



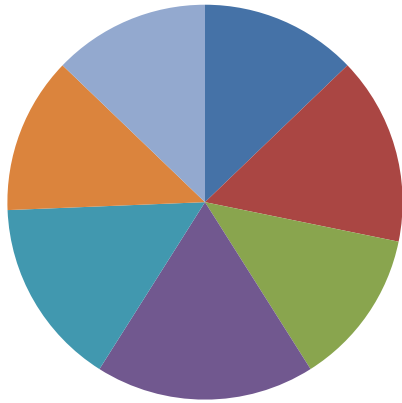
Shared Services

National Laboratories Pie



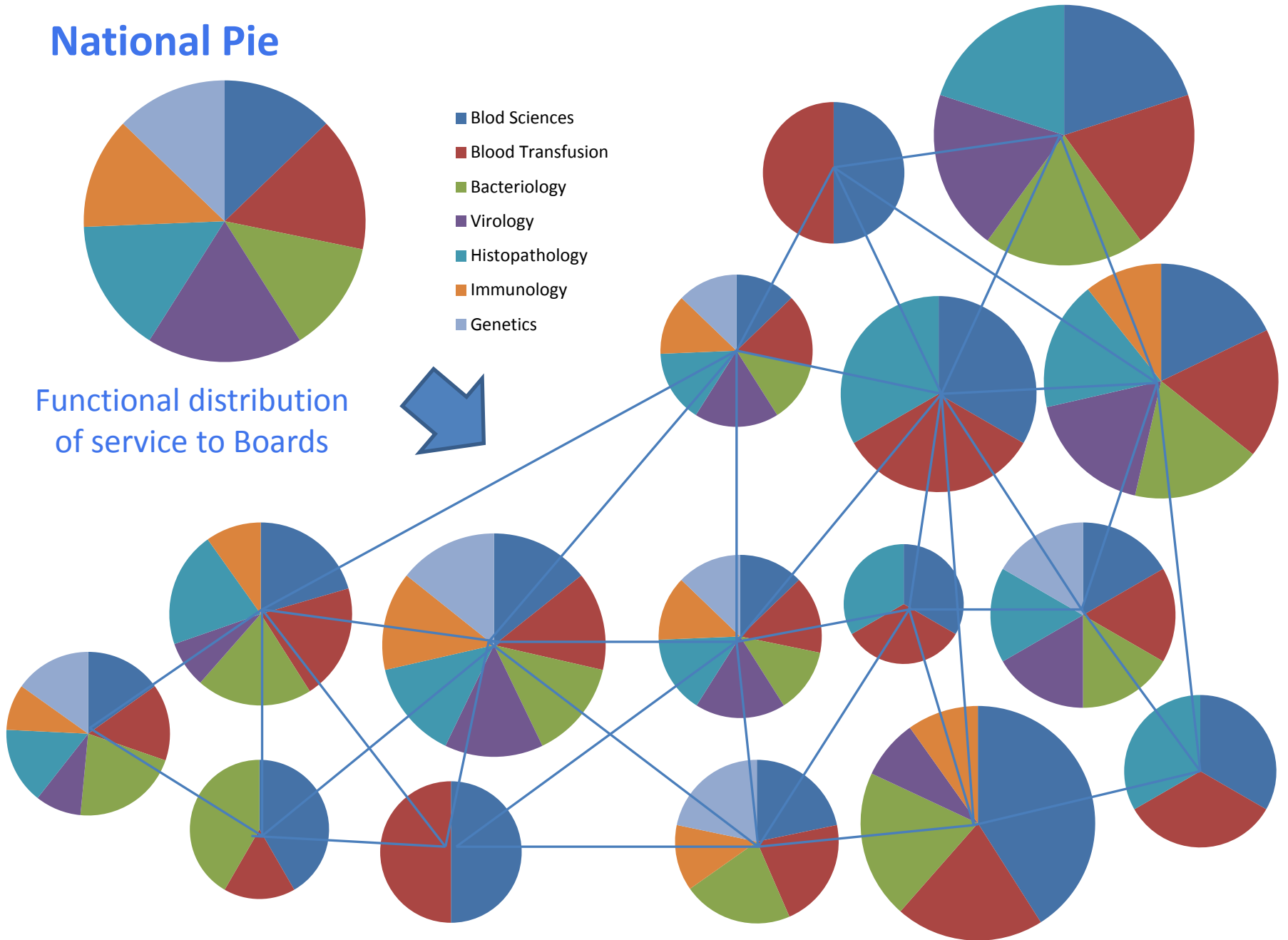
Triple Aim Focus: Right Test, Right Place, Right Time

National Pie



- Blood Sciences
- Blood Transfusion
- Bacteriology
- Virology
- Histopathology
- Immunology
- Genetics

Functional distribution
of service to Boards




Triple Aim Focus: Right Test, Right Place, Right Time

Distributed service compliant with the shared service agenda will deliver : -

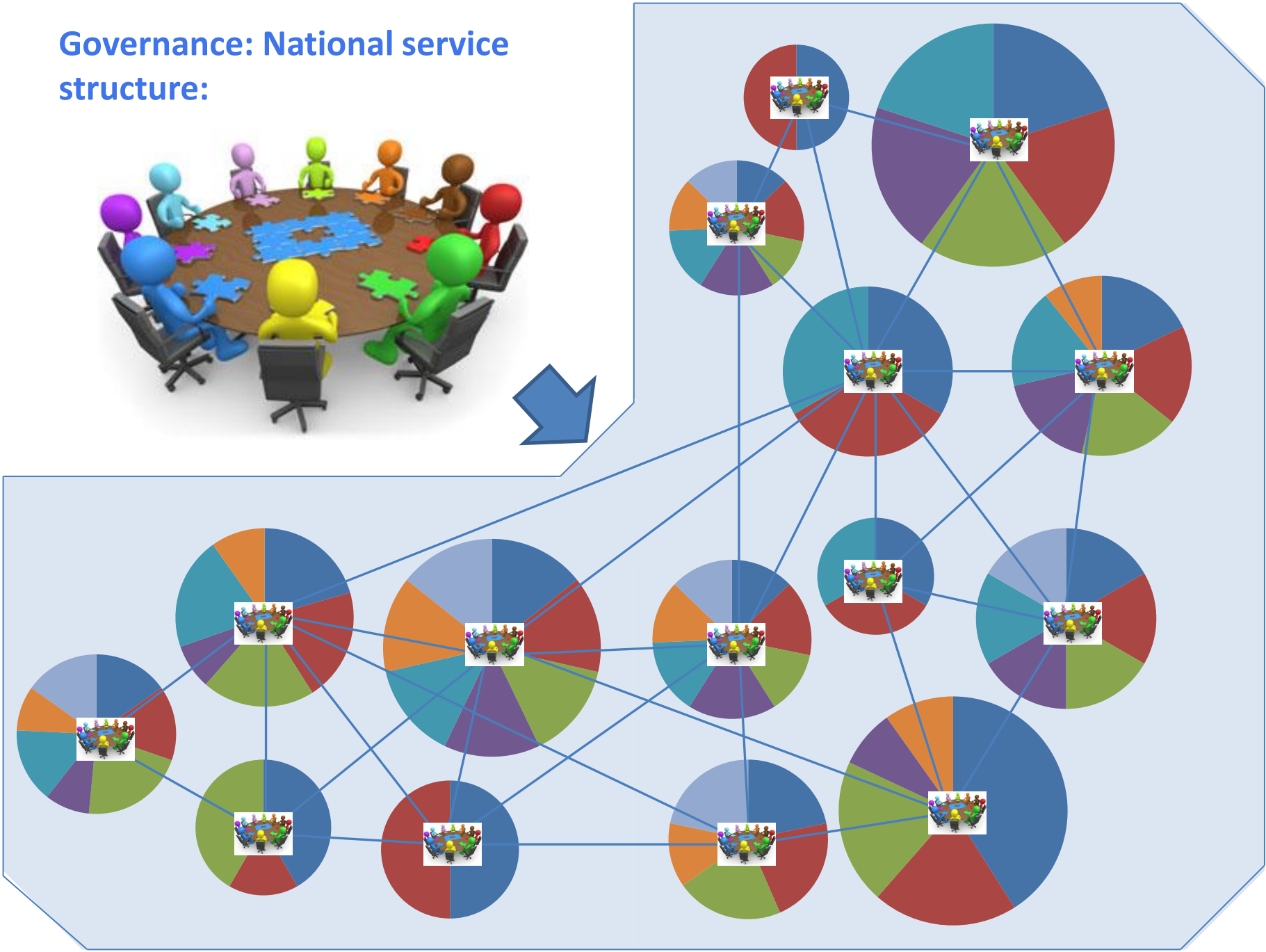
- **sustainability** through a scalable, flexible, innovative service configuration.
- **resilience** through efficient and effective use of
 - workforce knowledge and skills
 - estate and physical resources
- **equity** of service across the country
- **access to latest technologies** at enabled centres accessible to all Boards.
- **increased efficiency and effectiveness** to either realise cost savings/containment or increase capacity through reduced waste and economies of scale.

National Clinical Strategy
Triple Aim Once for Scotland
Simplify, standardise and share

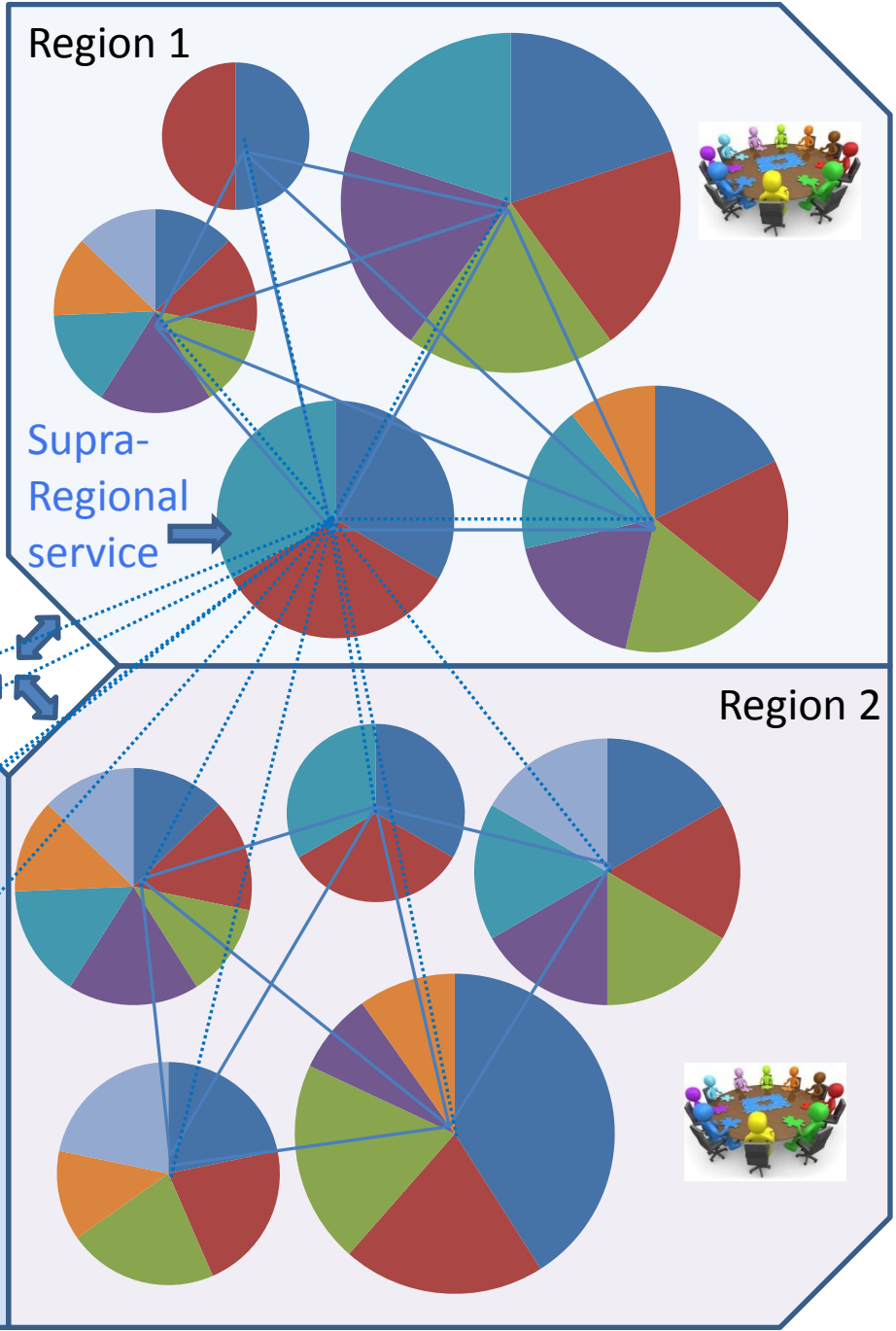
A blue circular graphic with a white border, containing three lines of text.

-Right test
-Right place
-Right time

Governance: National service structure:



Governance: Regional delivery with national oversight.



Region 3

Region 1

Region 2

Supra-Regional service

Regional service

User/service Interface

Interface and infrastructure that: -

- delivers what is needed by the users
- supports efficient, appropriate and effective use and delivery of diagnostics
- hides from the user the organisational complexity of the provider



Users

Provider



Deliverables

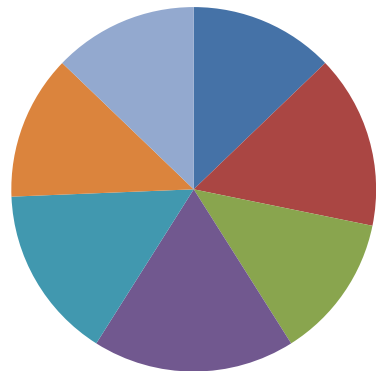


Next Steps

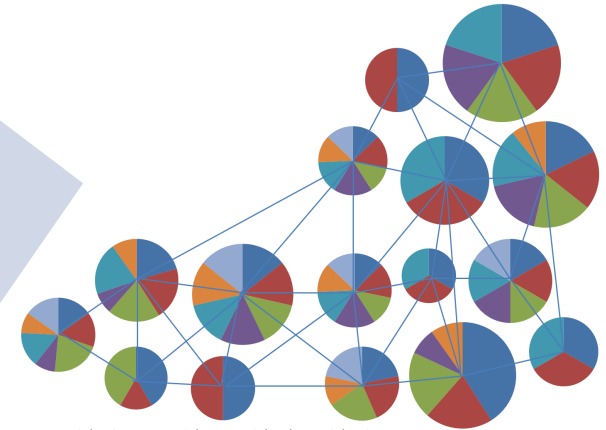
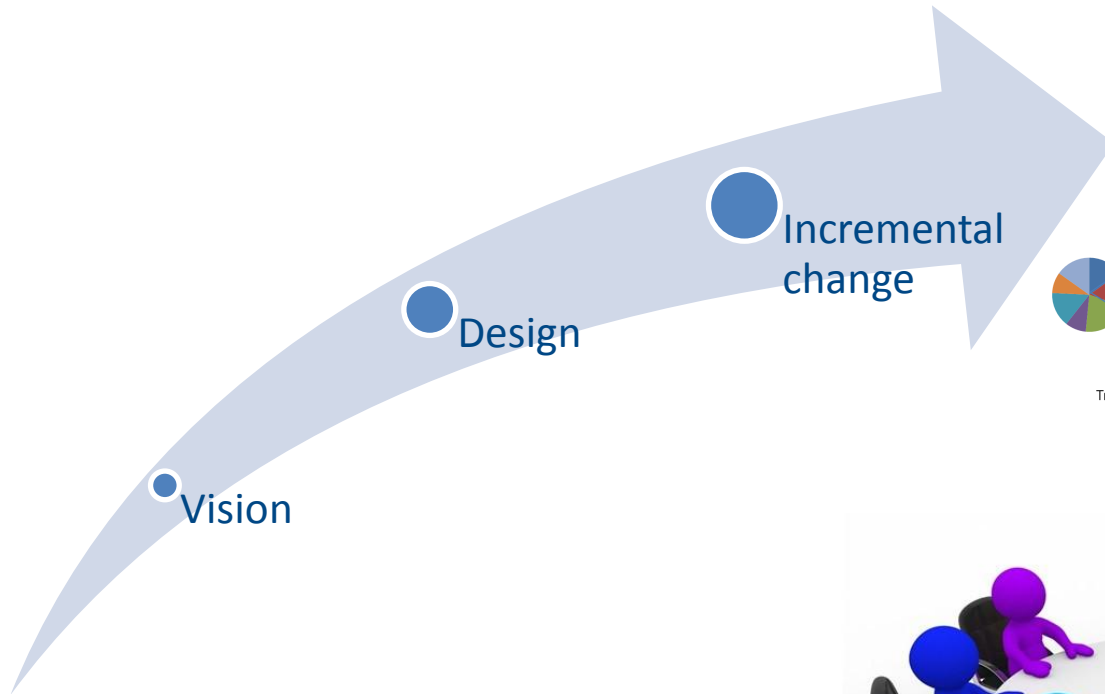


Shared Services

Towards a Distributed Service Model



- Blod Sciences
- Blood Transfusion
- Bacteriology
- Virology
- Histopathology
- Immunology
- Genetics



Triple Aim Focus: Right Test, Right Place, Right Time



5 Key questions....

How do we design and implement the correct infrastructure for the DSM that meets the needs of an evolving health care system and enables our users?

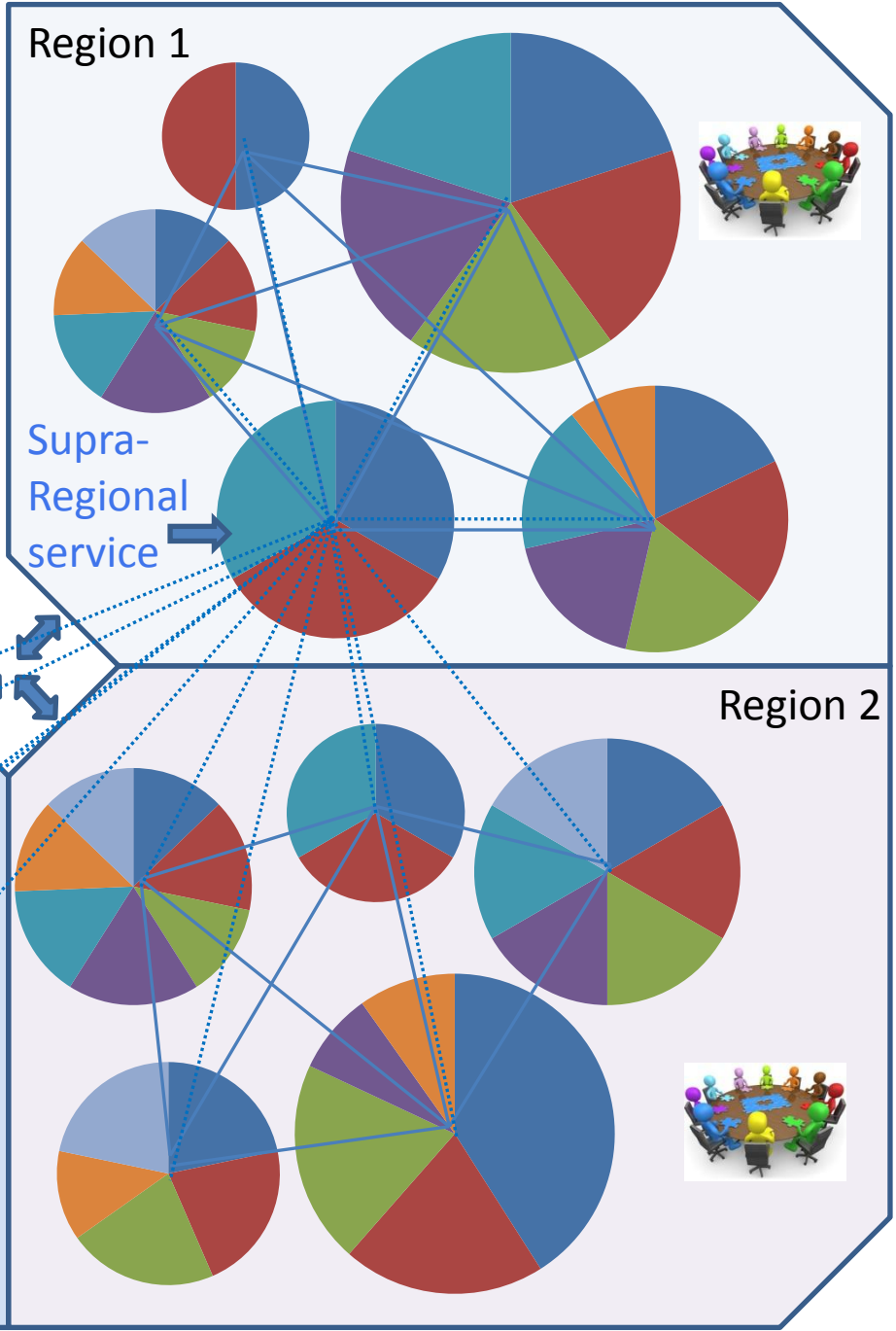
What workloads can be consolidated?

How do we identify what services must be delivered physically in each locality and ensure that they are delivered resiliently?

How do we deliver national consistency with an appropriate quality and improvement focus?

How do we deliver and demonstrate value from investment?

National Consistency?
Convergence?
Governance?

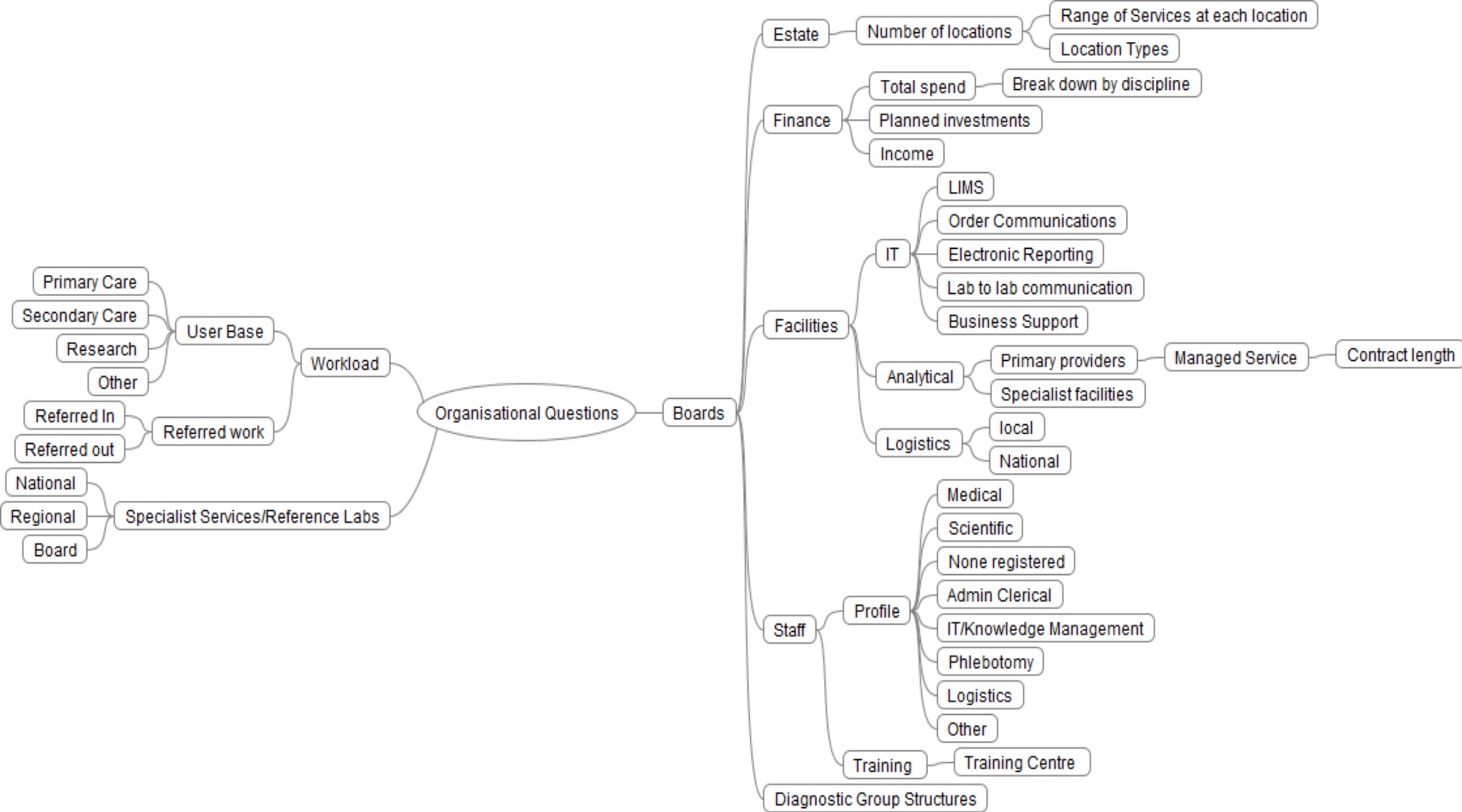


Issues

- Definition of a basic service requirement for health care units of varying size and complexity
- **Form of delivery of specialities may vary**
- Resilience
- Workforce
- **Common IT/inter-operability**
- Governance
- **National finance framework**
- **Innovation and technology**
- Point of care testing
- Demand optimisation
- **Reduction of variation**
- Logistics

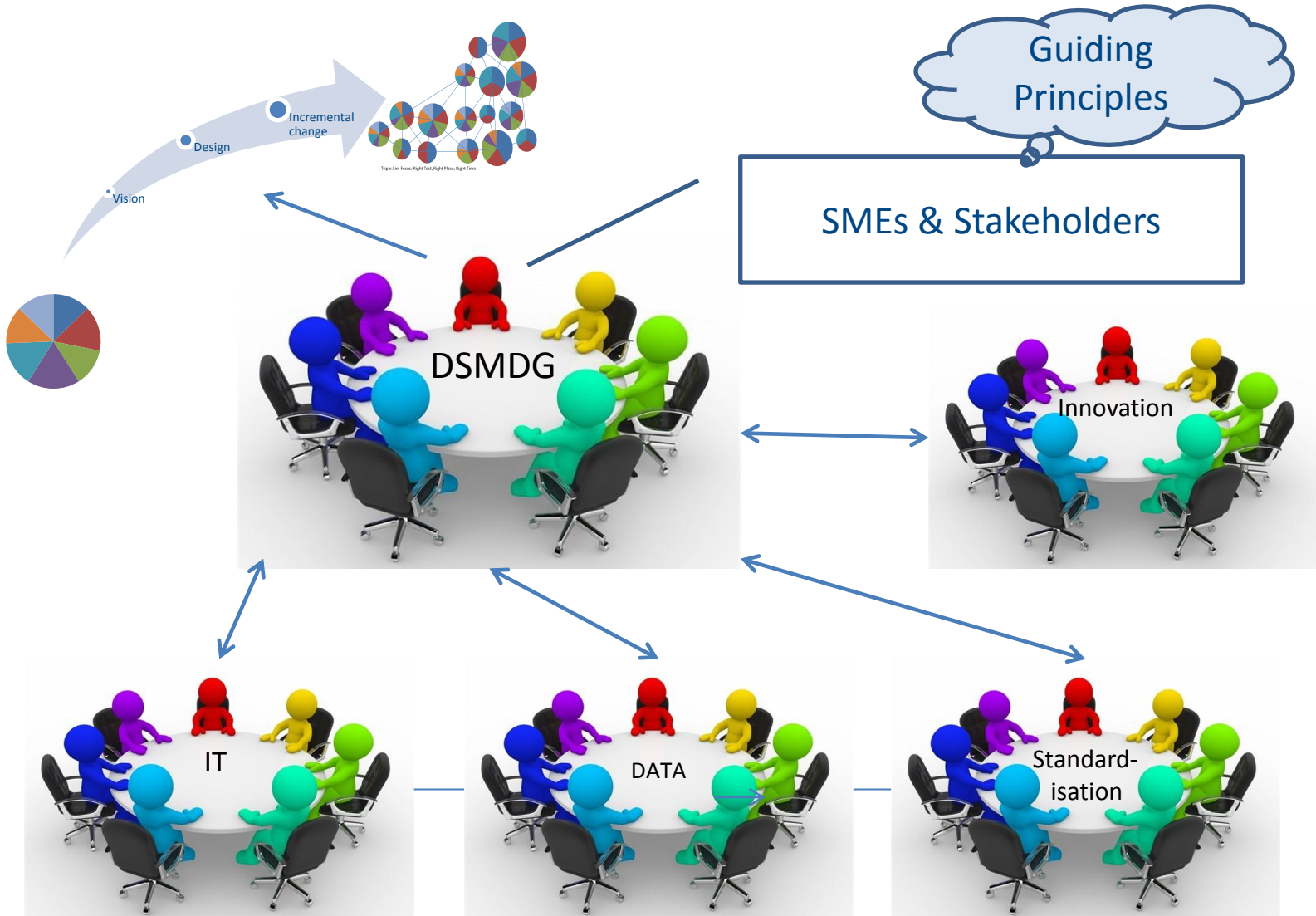


Information and data requirements



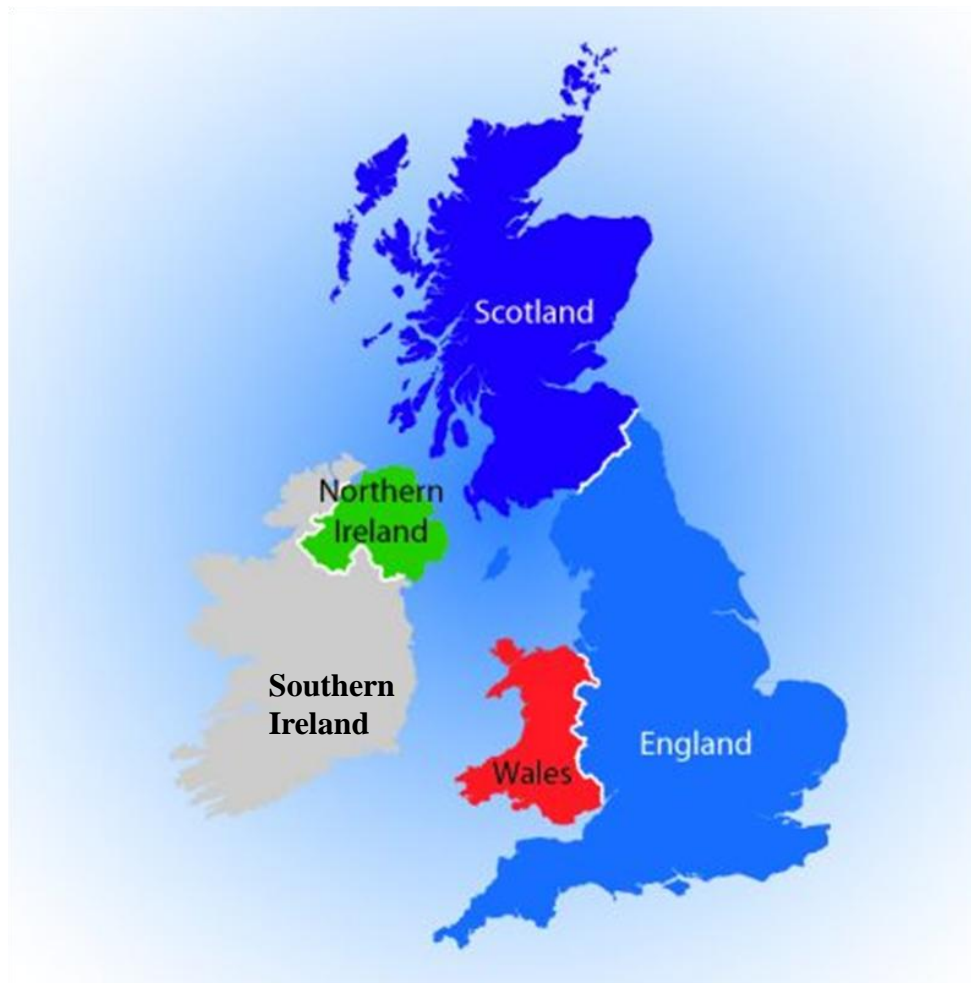
Shared Services

Towards a Distributed Service Model



Other Evidence & Lessons Learned

- Similar concepts
- Different language
- Similar processes
- Same enablers
- **Data, Standardisation and IT** core to service development



Content

Project framework for document consultation

ESL design

Standard procurement template

IT procurement guide

Operational governance

Clinical governance

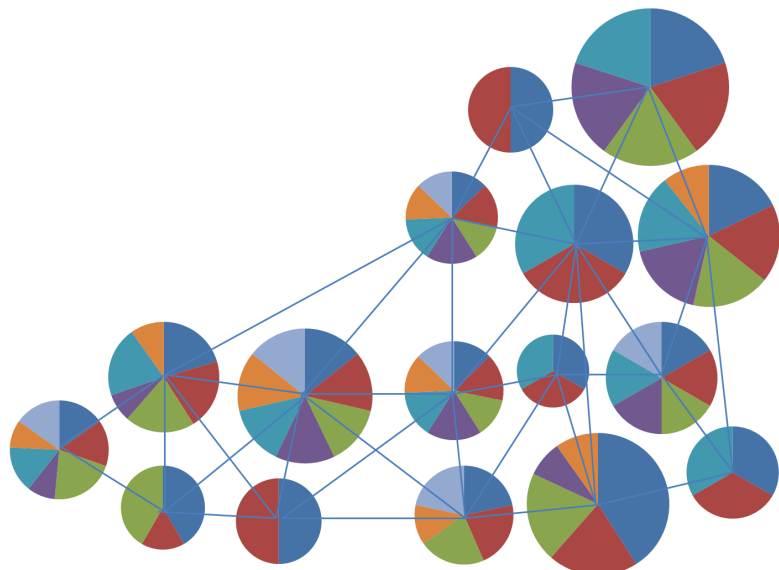
Legal watch points

Outsourcing guide

Standard templates for SOC & FBC

Due diligence guide

Case study – worked examples



Triple Aim Focus: Right Test, Right Place, Right Time

