

Learning Health Systems

The challenge of turning data into improvement

Tim Horton, The Health Foundation

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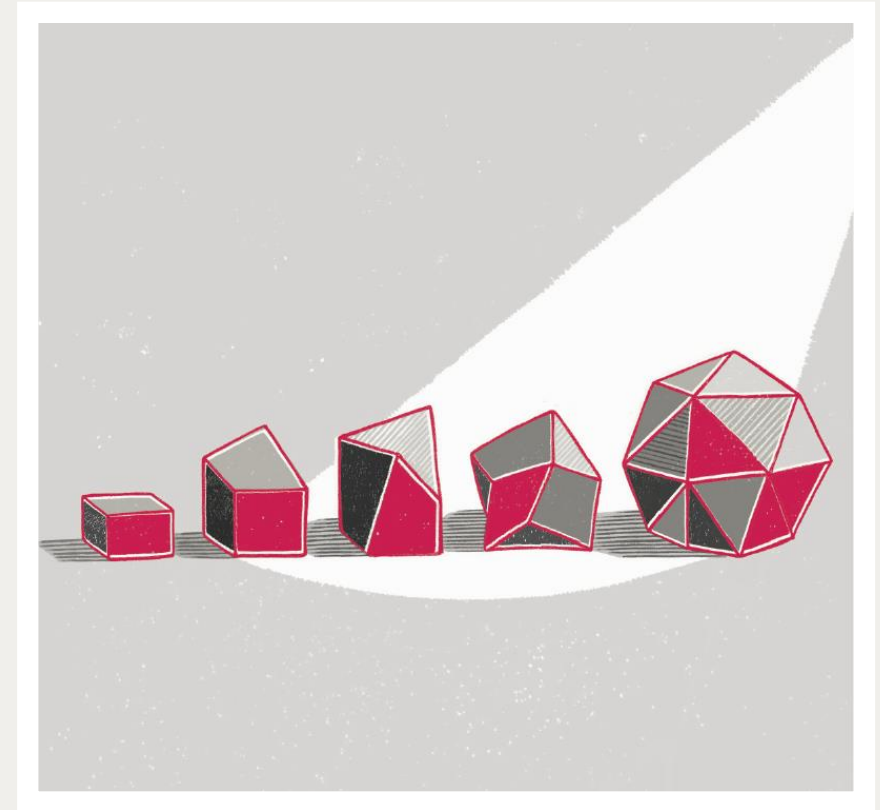
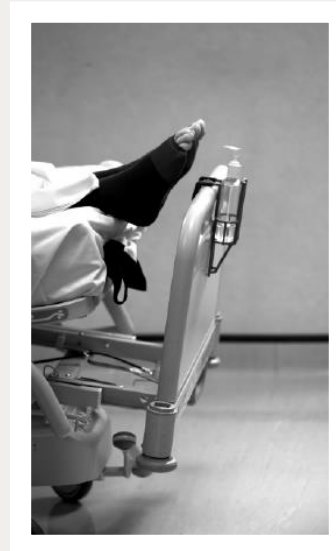


**The
Health
Foundation**

About us

The Health Foundation is an independent charitable foundation **working to build a healthier UK**

We connect what works on the ground with effective policymaking and vice versa.



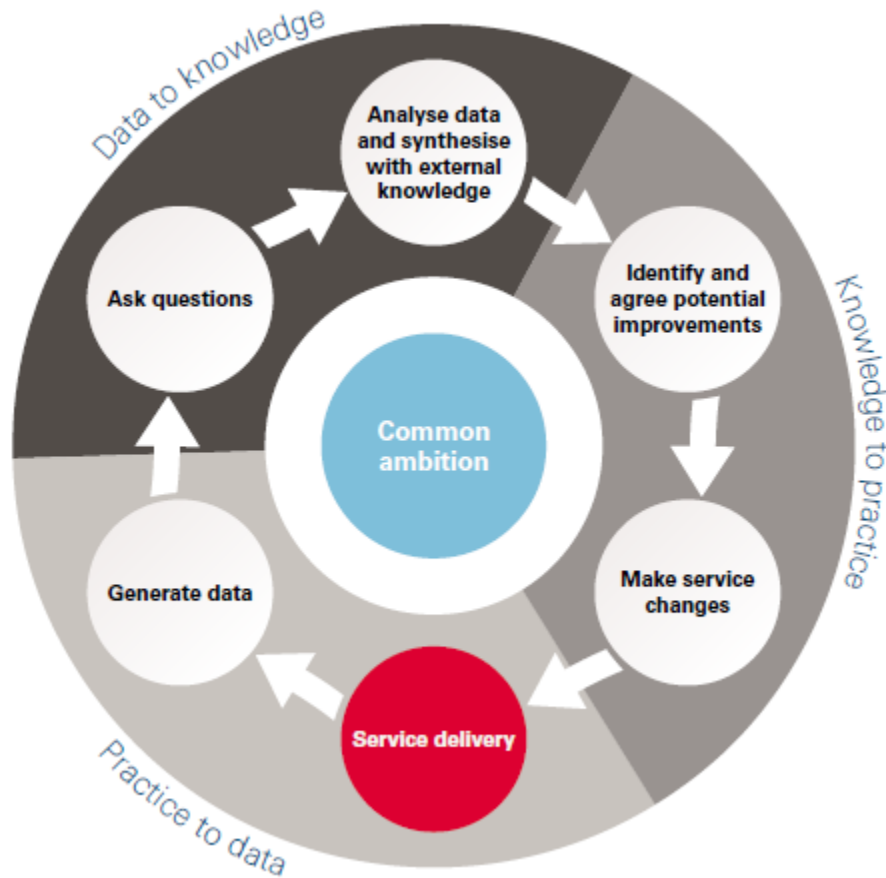
We shine a light on how to make successful change happen

The opportunity



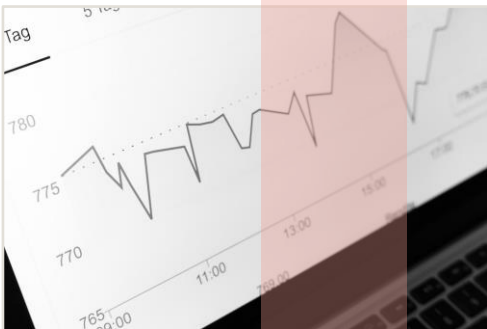
- **30% of the world's data volume is being generated by the healthcare industry**
- If we can turn this data into actionable knowledge, we can use it to drive improvements to healthcare and other services
- But there are lots of challenges to doing this successfully!

What are learning health systems?



A team, provider or group of providers who, working with a community of stakeholders, has **developed the ability to learn from the routine care it delivers and improve as a result**

Learning from data

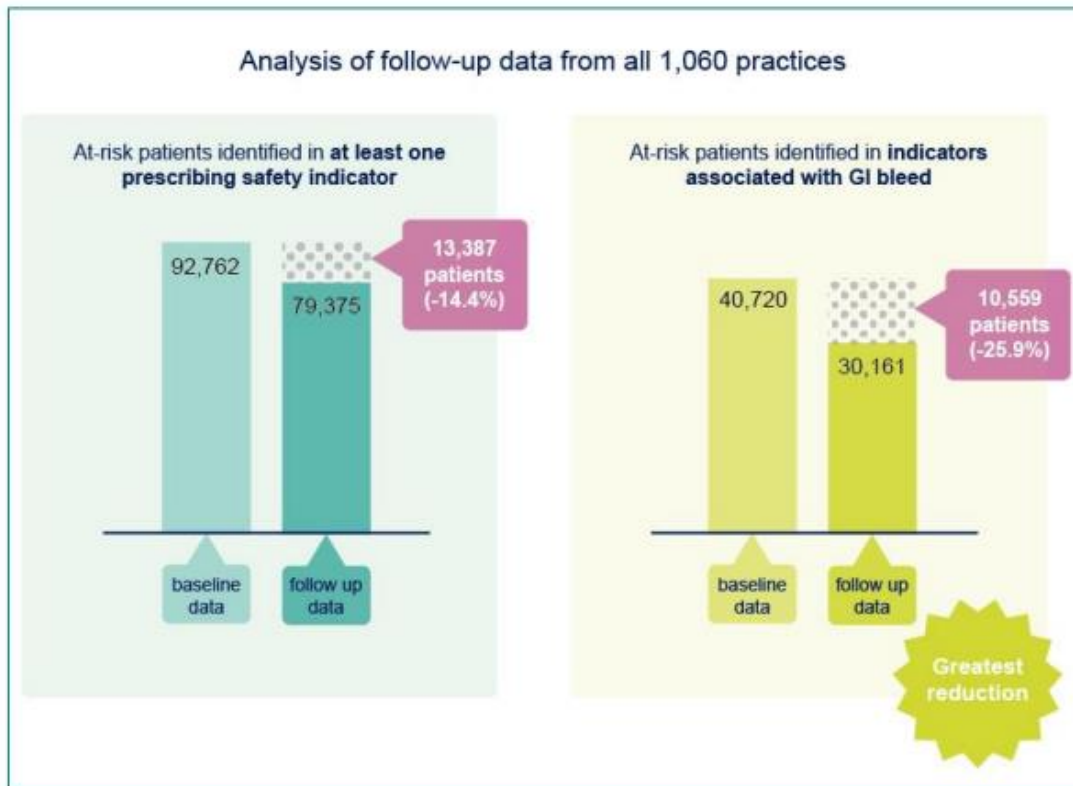


- Learning health systems can draw on data to improve services in a number of ways, for example:
 - Understand the health needs of people and their communities
 - Direct resources to where they are most needed
 - Generate new clinical evidence
 - Support treatment decisions for patients with complex health needs
 - Design and evaluate new treatments, technologies and pathways
 - Support quality improvement activities

PINCER

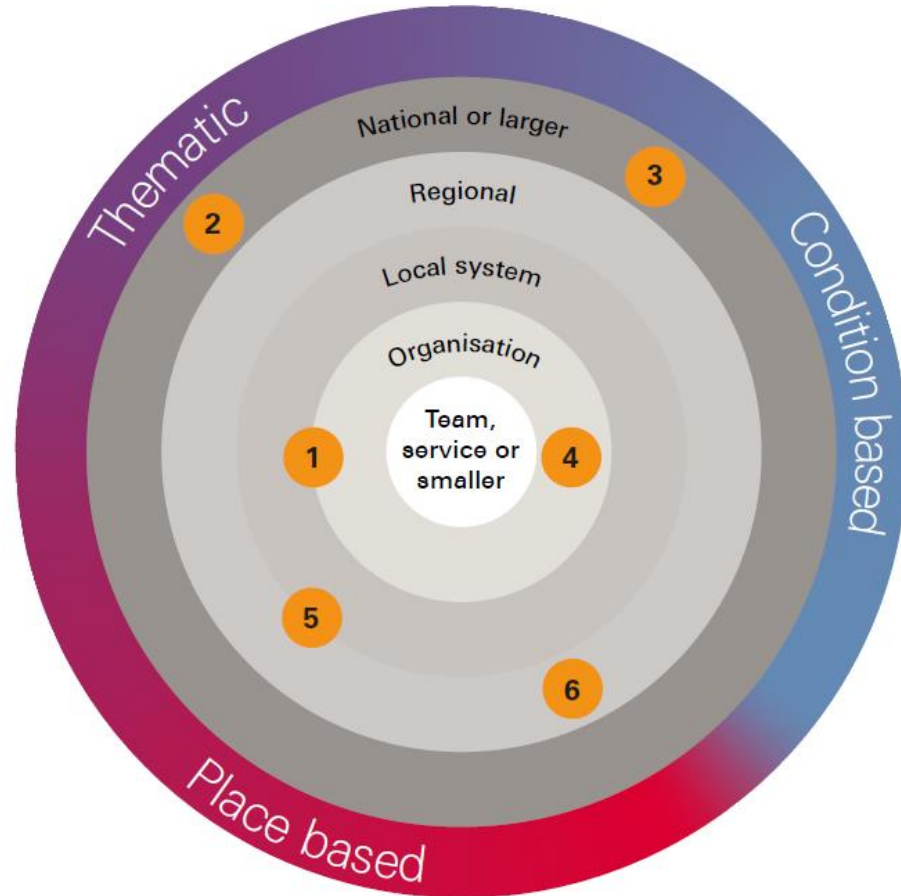
National level

Thematic



- An initiative that aims to reduce prescribing errors in general practice
- Clinical audit tool + QI methodology + educational outreach
- Pharmacists run searches on GP clinical systems to identify at risk patients, then act to correct problems
- Training provided to pharmacists to diagnose cause of problems and work with practices to improve prescribing processes
- Adopted by over 40% of GP practices in England
- Reduction in number of patients at risk of hazardous prescribing associated with gastrointestinal bleeding

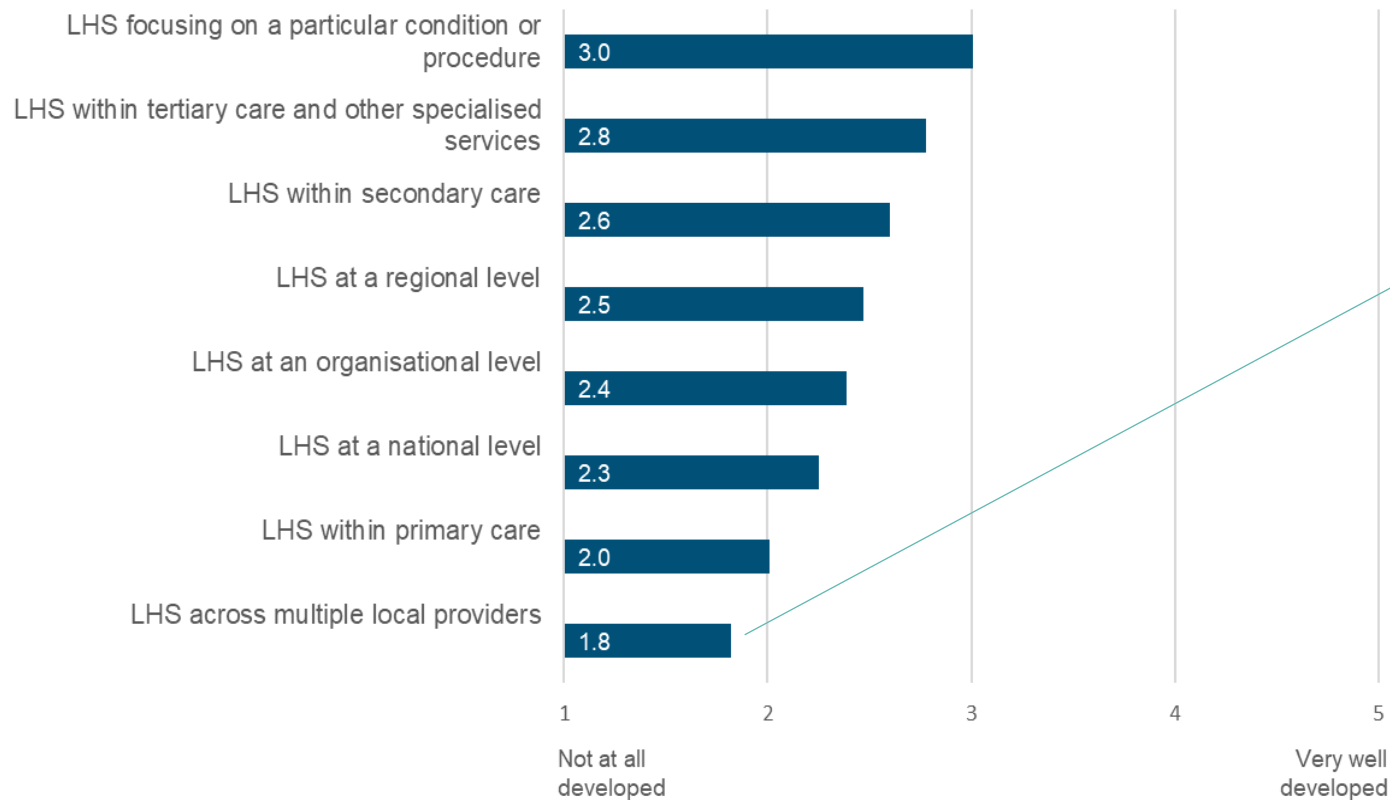
Learning health systems can have different scale & focus



- 1 Flow Coaching Academy
- 2 PINCER
- 3 CFHealthHub
- 4 NHS Nightingale Hospital London
- 5 The Clinical Effectiveness Group
- 6 Children & Young People's Health Partnership

Where are LHS most (and least) developed?

How developed do you think learning health system approaches currently are across these different levels of the health and care system in the UK?



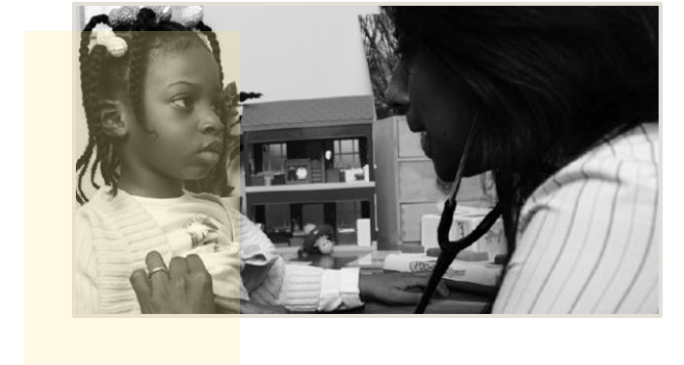
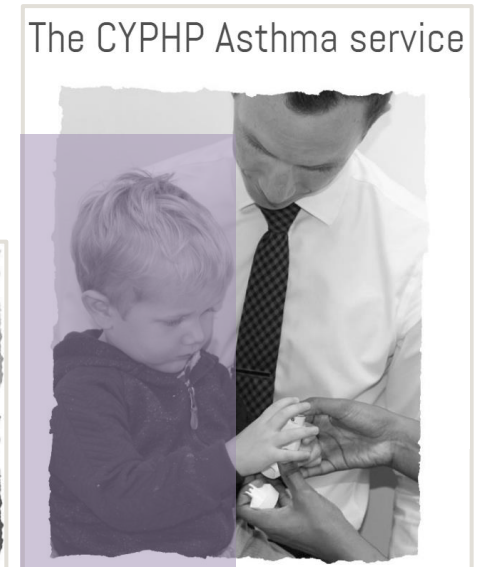
In our survey of expert stakeholders, LHS approaches at the level of ICSs & provider collaboratives were thought to be the least developed

Children & Young People's Health Partnership

Regional level

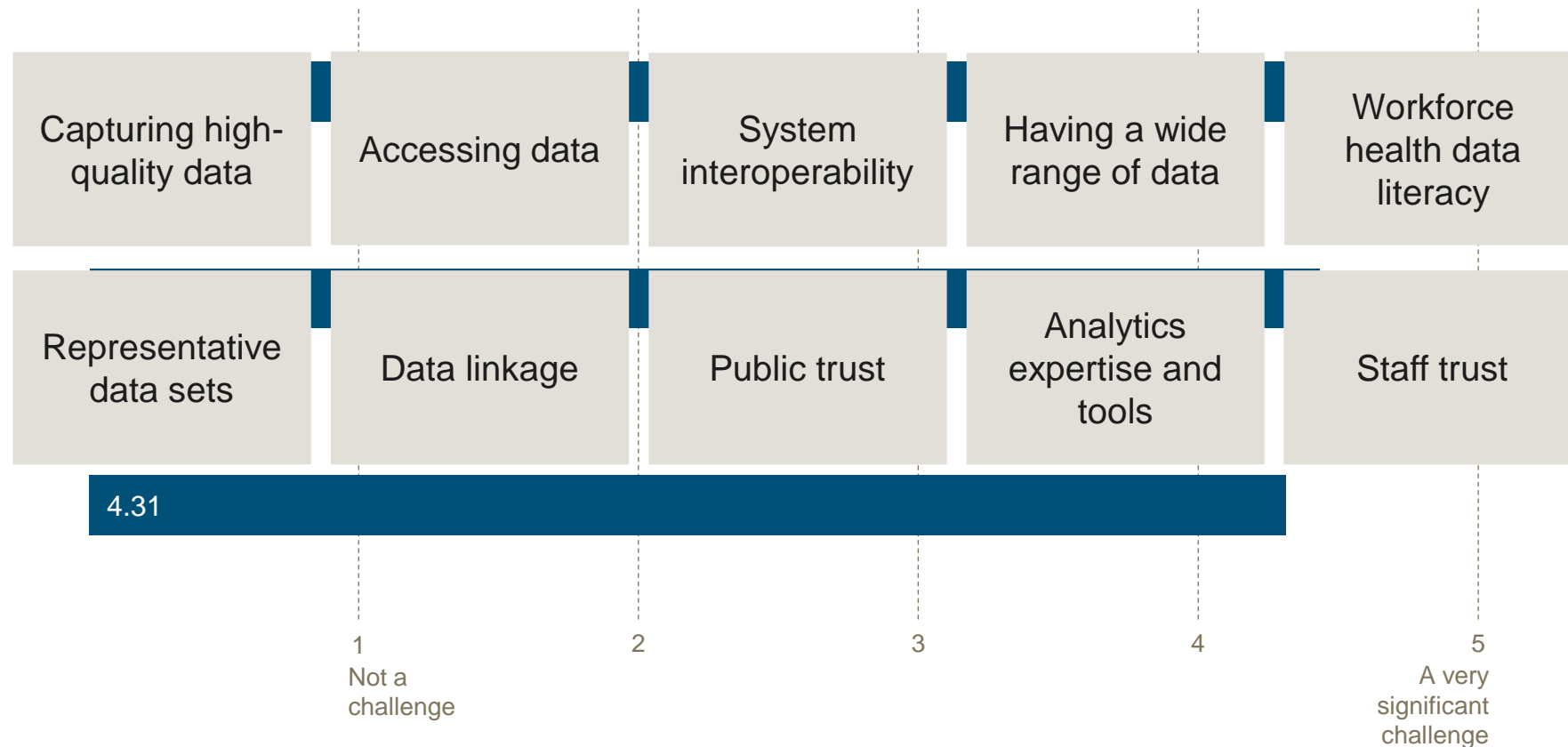
Place-based

- Brings together healthcare providers, education and local government to improve health outcomes for children and young people in South London
- Combines data from parent questionnaires, clinical data and data on social determinants
- Data enables targeted intervention by a multi-disciplinary team
- Data also supports quality improvement and population health management



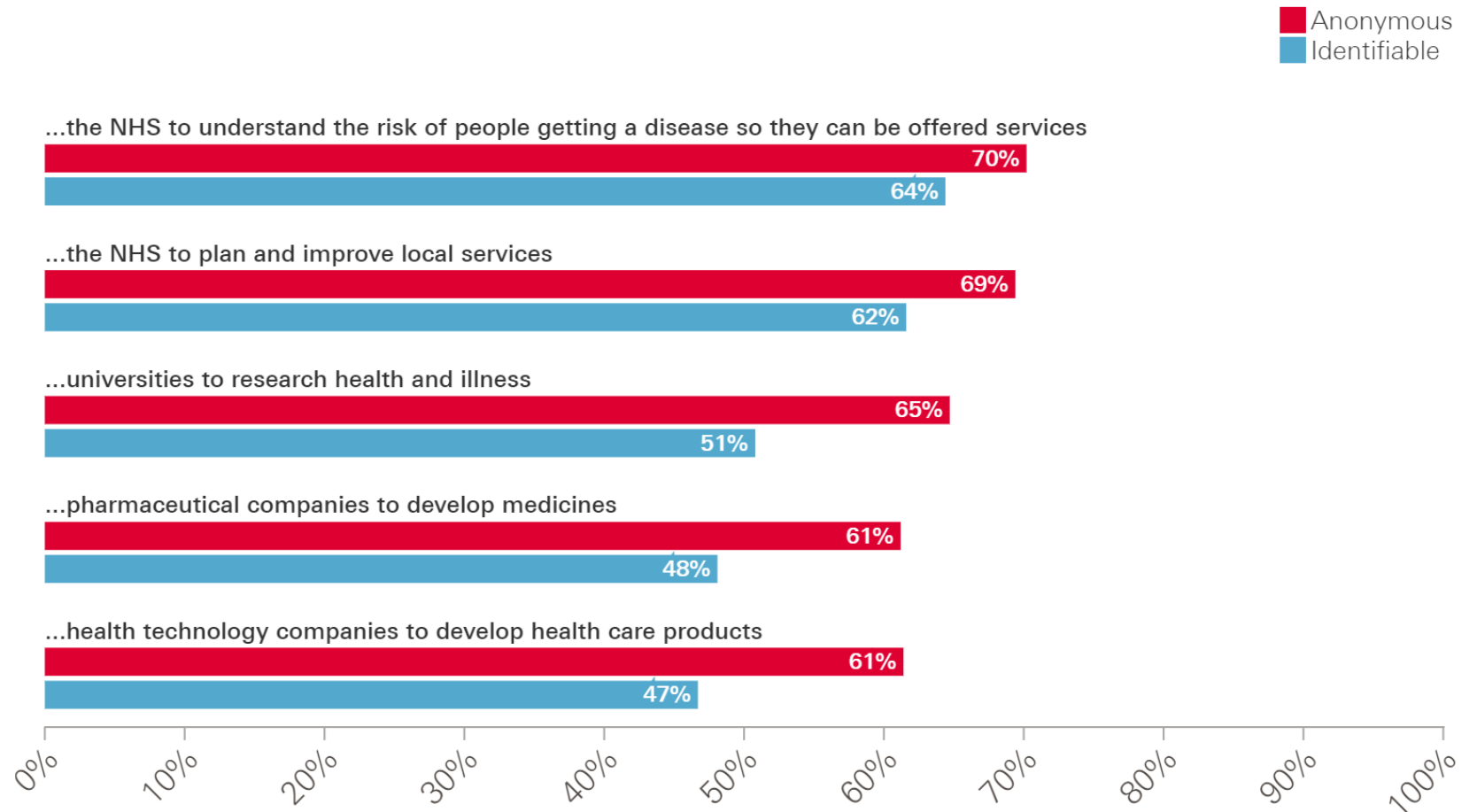
Challenges – learning from data

What are the biggest **data challenges** for developing and scaling learning health systems?



The public are generally happy for their data to be used for 'secondary purposes'

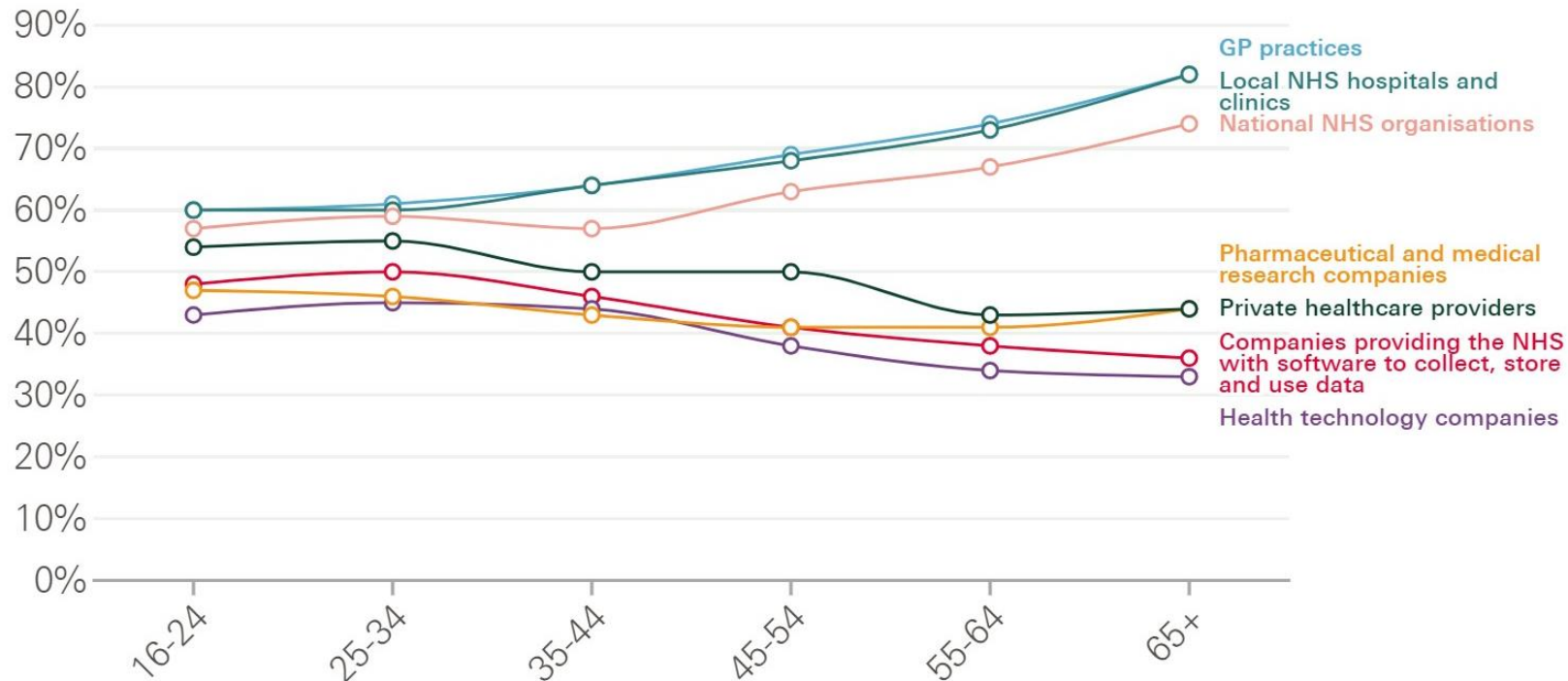
Please indicate whether you would or would not be happy with the following ways that health data might be used, if you had to choose. "I would / would not be happy for my anonymous / identifiable data to be used by.."



Trust in data usage varies by age

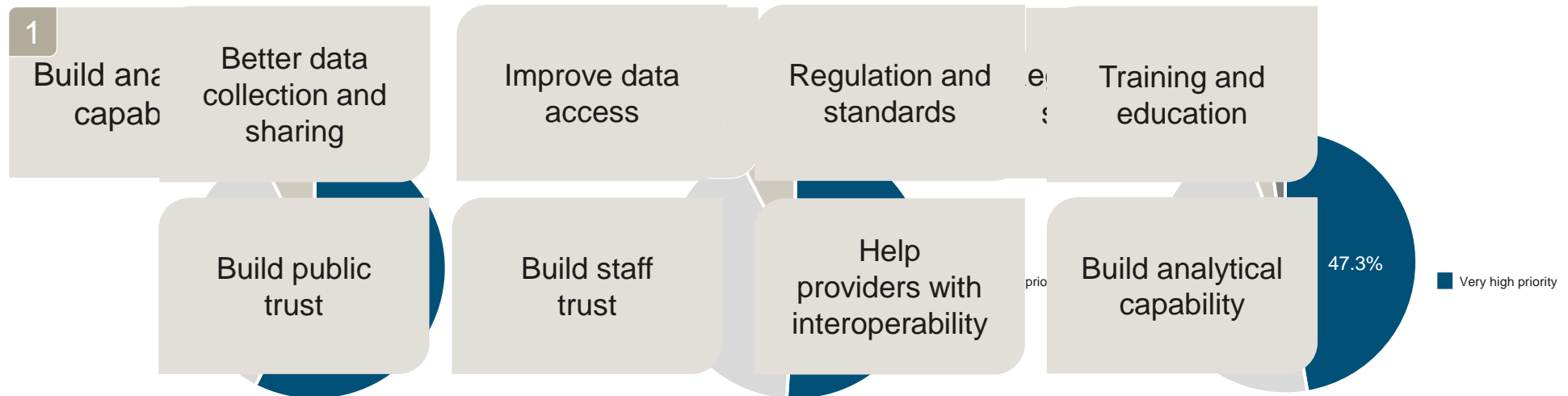
How much, if at all, do you trust the following organisations with your health data?

Percentage of respondents who said they trust this organisation 'a lot' or 'moderately'



Policy actions - data

Which of these actions do you think policy makers should take to support the development and scaling of learning health systems, and how much of a priority should these be?

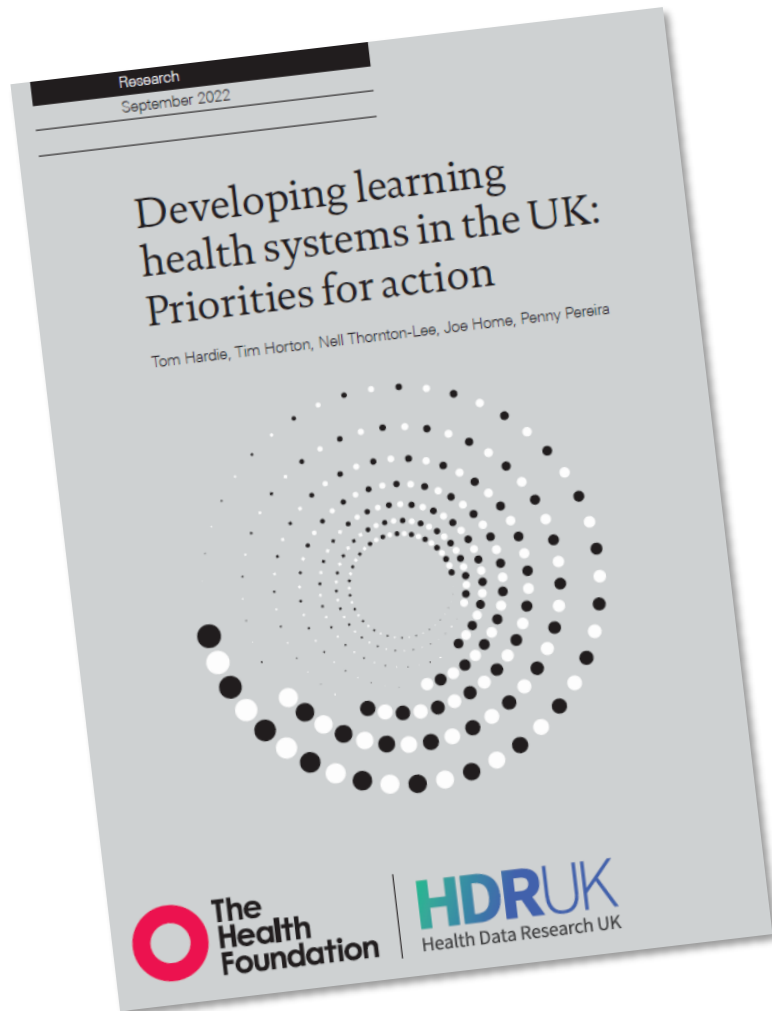


Turning data into action



- Important to focus on the social and relational aspects of learning and improvement – collaboration, deliberation, problem definition, priority setting and decision making
- Not enough to have data – there needs to be agreement on what the data are saying, what actions can create the desired change and how to put those in place.
- A successful learning health system needs a well-functioning ‘learning community’ – which requires trusting relationships, a learning culture, and mechanisms for convening and deliberation
- How well people collaborate will significantly influence how well a learning health system works and how successful the resulting changes will be
- Providers also need the capacity and capability to design and implement improvements to care (e.g. project management, QI skills, clinical backfill, leadership, etc.)

Read the full report here



Full report is available on our [website](https://www.health.org.uk) at health.org.uk

If you'd like to hear more, get in touch!

- Tim.Horton@health.org.uk

Thank you

