

UK Health Data Research Alliance Symposium

4 February 2020

@HDR_UK | #hdralliance





Welcome!

The Inaugural UK Health Data Research Alliance Symposium

Andrew Morris, Director, Health Data Research UK

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Option

UK Health Data Research Alliance





UK Research and Innovation

Our mission is to unite the UK's health data to enable discoveries that improve people's lives

It's a complex environment





Interoperability: to work across systems with no additional effort

HDRUK Health Data Research UK





An alliance of leading healthcare and research organisations united to establish best practice for the ethical use of UK health data for research at scale.

Knotty Issues

- Information governance data access
- Data quality
- Sustainability and commercial models

- Meaningful public engagement
- Technology strategy and standards
- Inter-operability

Design of the Alliance Inspired by global collaborations

- No single organisation possesses all the information required to address every health and well-being issue facing society.
- Timely access to data across organisations requires:
 - Expertise
 - Trusted governance
 - Interoperability







"As a neutral UK cooperative, we will be defined by our community of data controllers across the UK".





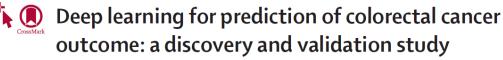






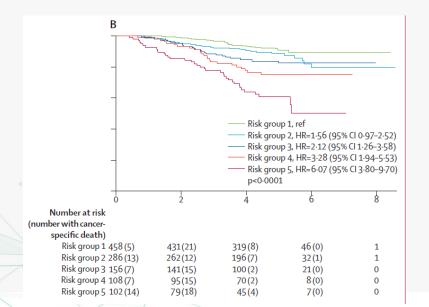


Why is this important? A Case Study



Ole-Johan Skrede*, Sepp De Raedt*, Andreas Kleppe, Tarjei S Hveem, Knut Liestøl, John Maddison, Hanne A Askautrud, Manohar Pradhan, John Arne Nesheim, Fritz Albregtsen, Inger Nina Farstad, Enric Domingo, David N Church, Arild Nesbakken, Neil A Shepherd, Ian Tomlinson, Rachel Kerr, Marco Novelli, David J Kerr, Håvard E Danielsen

- 12 000 000 image tiles from patients with a distinctly good or poor disease outcome
- Four cohorts used to train a total of ten convolutional neural networks,



 If AI systems are to be developed and used widely, the use of diverse population data will be critical.

- Sharing data between institutes and regions is becoming widely accepted as a necessity to AI research,
- Pledges from NIH, US National Cancer Institute, Wellcome, and the Bill & Melinda Gates Foundation, which will require data gathered from any funded project to be made available to the scientific community.



Editorial

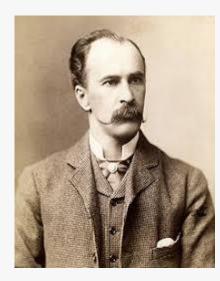
Leaving cancer diagnosis to the computers





Aims of the Day

- Build the community engaged with the development and use of the UK health data research infrastructure
- Celebrate and showcase achievements to date across Alliance, Gateway and Hubs
 - Gain inspiration from analogous developments and international perspectives
 - Help to shape priorities and plans for the future





The best preparation for tomorrow is to do today's work superbly well

Wiiliam Osler July 12th 1849-December 29th 1919

Thank you for listening!

HDRUK Health Data Research UK

UK Health Data Research Alliance

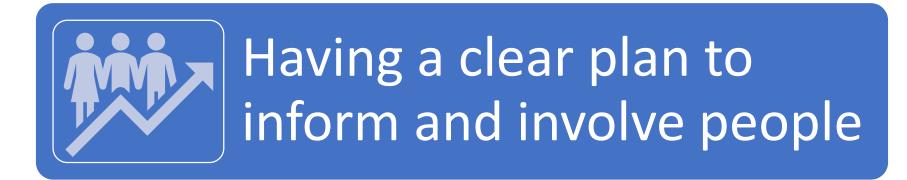
Engaging and involving patients and the public in uniting health data to enable discoveries that improve people's lives

Angela Coulter, Chair, Public Advisory Board, Health Data Research UK

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Engaging and Involving Patients and Public in Uniting Health Data to Enable Discoveries that Improve People's Lives Angela Coulter HDR UK Public Advisory Board

@acpatient





Demonstrating public benefit

Core Principles for Engagement (DATA-CAN)

- We will ensure patients are included in our work
- We will ensure our engagement is representative of the diverse, UK wide population
- We will operate according to core principles of clarity, transparency and involvement
- We will act on what our community says is important
- We will enable and empower people to be involved, engage in and influence our work

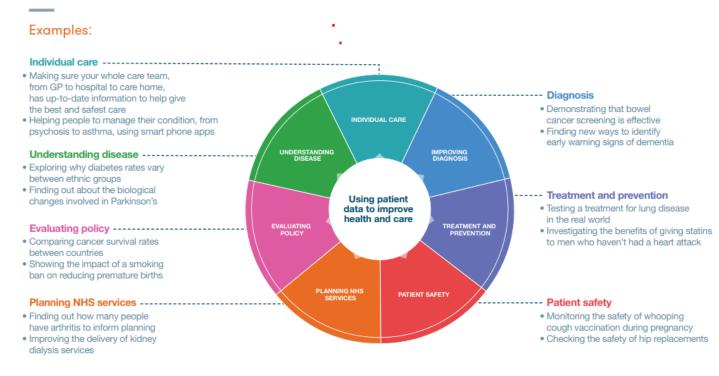
Safe Projects, Safe People, Safe Data, Safe Settings, Safe Outputs





Using patient data is vital to improve health and care for everyone

There is huge potential to make better use of information from people's patient records. Data is vital for your individual care, and to improve health, care and services across the NHS. The information can be used to help understand more about disease, develop new treatments, monitor safety, plan NHS services and evaluate policies.



Demonstrating Public Benefit

Understanding Patient Data



Overview: Health Data Research UK Infrastructure

Caroline Cake, COO & Deputy Director, Health Data Research

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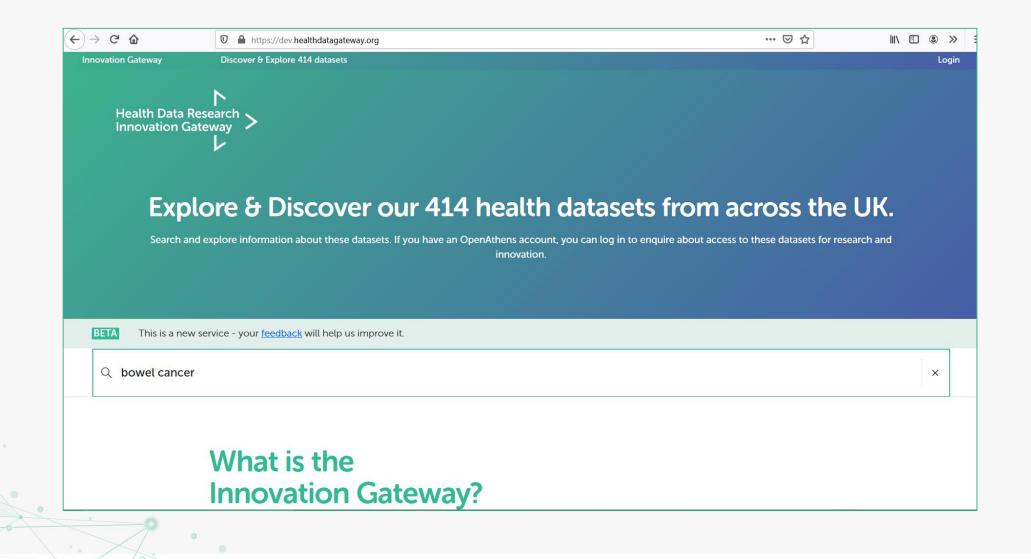


Innovation Gateway

Gerry Reilly Chief Technology Officer Health Data Research UK

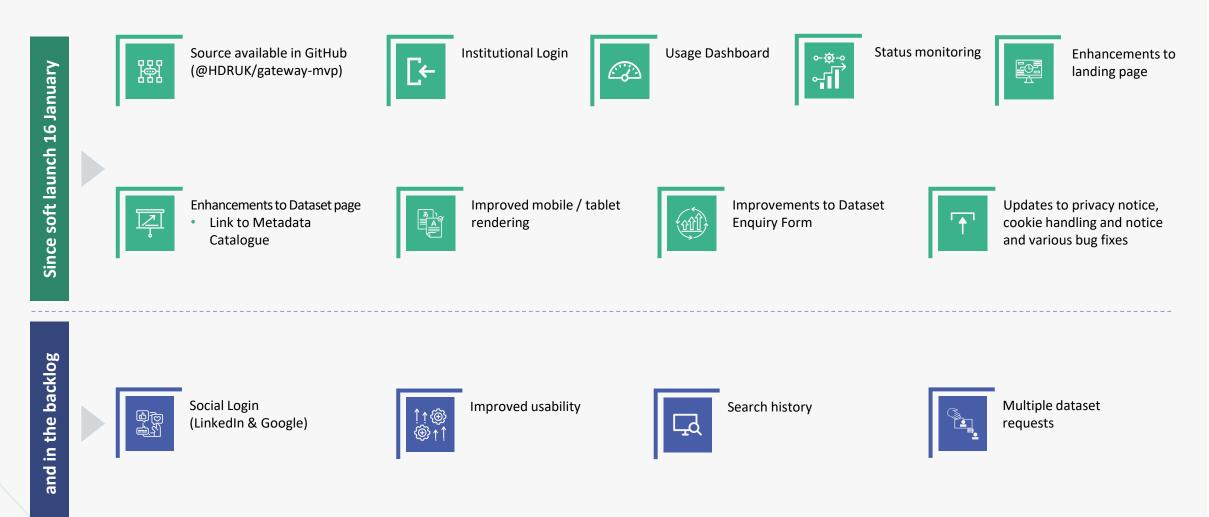


A Gateway is born (healthdatagateway.org)





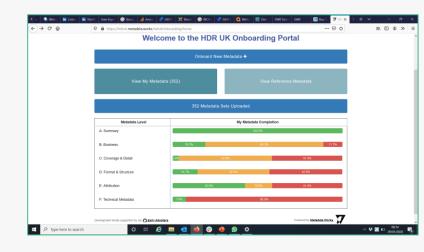
The MVP continues to evolve



We would also like you feedback to help us continue to improve the MVP email: support@healthdatagateway.org



Improving The Metadata



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The Royal College of General Practitioners (RCGP) Research and Surveillance Centre (RSC) primary care sentinel network and database

ATE RELEASED 11/12/2019 RCGP and University of Surrey (to be superseded by University of Oxford) In Progress 2-3 months

RCGP RSC hold data in a granular, generalized data warehouse model (see section F Technical Metadata for details) and can provide data in formats which conform to standard data model formats as requested, subject to cost The RCGP RSC network database is one of the freshest data sources of primary care data. Data are refreshed twice weekly. Through our network of we can

(1) Identify and recruit patients for trials/studies, (2) Collect specimen, (3) conduct questionnaires

Data Access

DATA CONTROLLER The Royal College of General Practitioners (RCGP) is a policy level Data Controller for RCGP RSC. Currently RCGP has a contract with University of Surrey to be the Data Controller holding these data, this is migrating to University of Oxford during 2020. DATA PROCESSOR Not Applicable ACCESS RIGHTS

Access incompared on their request term as https://www.rcg.org.uki/.mtess/TikiurCdC.Readent.and-Survellance Parace access.Bcc.Bcc.Dos.Bcopeters.fc/mc.Bcl.Bahn/toise-ont toids can be used for SURIES purposes.Swellance Baucation There is no restriction on who can use out ataa, just the purpose.BCCP Study Agencia Committee and possibly Entical agencia with Baucation There is no restriction on who can use out ataa, just the purpose.BCCP Study Agencia Committee and possibly Entical agencia with engrence.General Information about carever's its http://www.rcg.org.uki/rcm.texp//climite.uki/metes.phprogn-tc.htmgs//climite.phprogn-tc.htmgs//climite.phprogn-tc.htmgs//climite.uki/metes.phprogn-tc.htmgs//climite.uki/m

Coverage

JURISDICTION GEOGRAPHIC CONSPACE DATASET START DATE DATASET END DATE PERIODICITY GB England 1960-01-01 Not specified Twice weekly

Demographics

AGE BAND Any Age STATISTICAL POPULATION 4000000

Related Resources

PHYSICAL SAMPLE AVAILABILITY Access is available to influenza virology samples. Public Health England (PHE) genotype all the influenza viruses they isolate. These genotypes are available from PHE. Over the nex 30 months they will be limited to RCCE data infrough a collaborative grant from the Welcome Trust. PHE also holds physical samples for 5 years of virology samples. Access may be available on request.

Related Datasets

GROUP Not Applicable

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The entire database is available to researchers, through the data access process (. Pre-defined extracts are available at minimal cost (based on the principle The entropy of the extraction processes previously developed will be re-used, hus incurring minimal costs of rule researchers). These pre-defined extracts cover: • Charlson comorbidity score • Frailty index • Extracts of our monitored conditions. • Risk scores including: CHA2DS2–VASc score

Attributions

Next steps



Improve metadata maturity across member organisations through continued support

Iterate metadata specification and complete outstanding attributes

X

Improve tooling and process automation



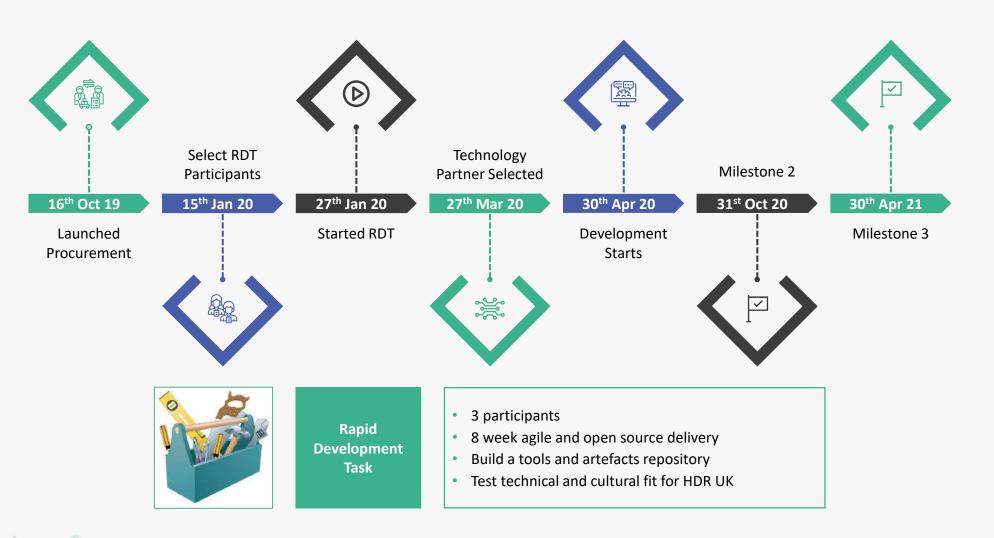
Support members to create sustainable metadata pipeline



Encourage members to publish an organisation metadata strategy

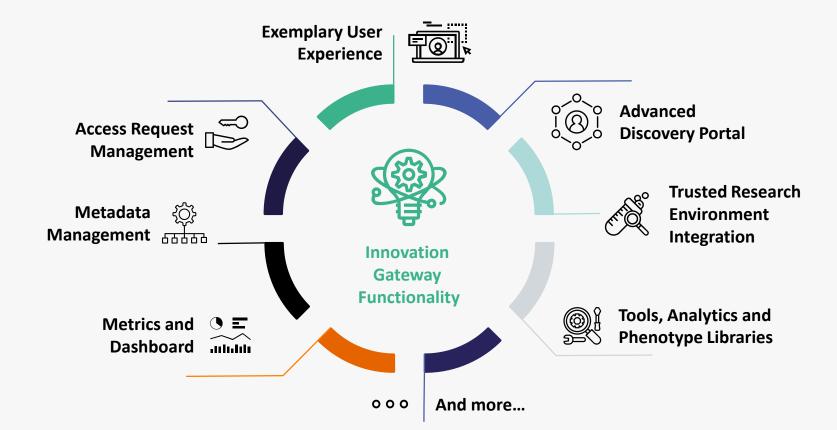
Innovation Gateway, building a Technology Partnership







Towards an End to End User Journey





Finally, please try the Gateway at www.healthdatagateway.org

"

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Thank you!

and provide feedback to support@healthdatagateway.org

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THANK YOU



www.healthdatagateway.org

support@healthdatagateway.org





UK Health Data Research Alliance – Uniting the UK's health data

Jane Ingham, CEO, HQIP Yvonne Silove, Associate Director, HQIP

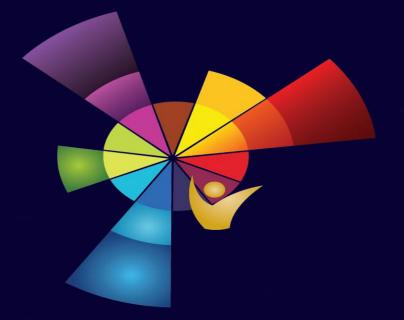
David Seymour, Partnerships Director, Health Data Research UK

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HQIP as a member of the Alliance - the journey so far

Jane Ingham CEO Yvonne Silove Associate Director



www.hqip.org.uk

Who is Healthcare Quality Improvement Partnership?



Our vision: enabling those who commission, deliver and receive healthcare to measure and improve services



Our values: independent, working in partnership with patients and health professionals to improve practice



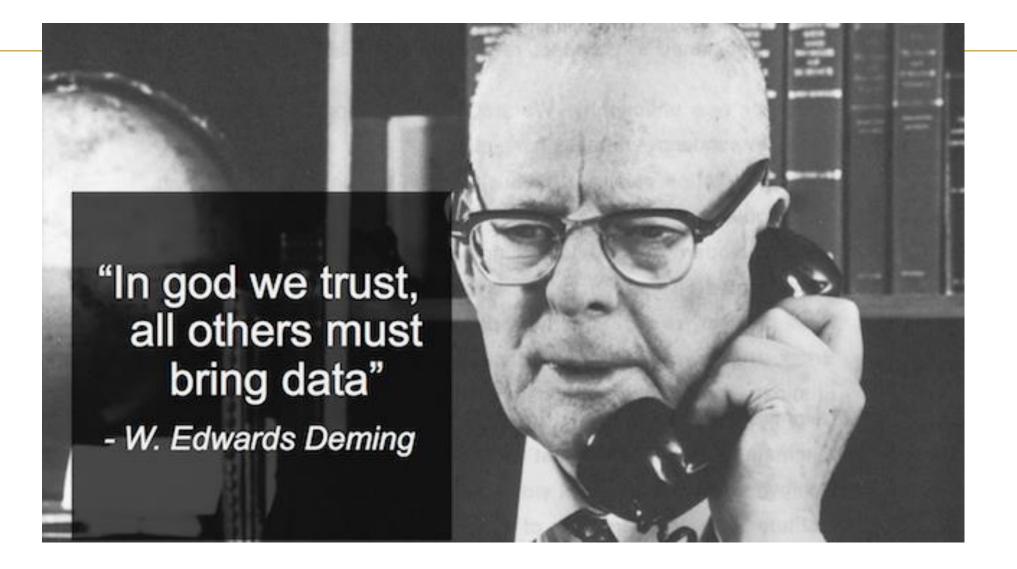
National Voices and RCN

ACADEMY OF MEDICAL ROYAL COLLEGES _____











A description of HQIP work programme

 Supports QI at local level via: Evidence-based guidance Practical tools and case studies Patient and public involvement eLearning and webinars 	NHS En 30+ national audits covering: • Acute • Cancer • Children and women's health • Heart • Long-term conditions • Mental health • Older people	 ^c 6 ongoing national programmes: Child health Learning disability mortality review Maternal, newbor and infant Medical and surgical Mental health 	n knees, ankles, elbows and shoulders • Covers England, Wales and Northern Ireland
• Network support	National clinical audit programme	 National child mortality Clinical outcome review programmes 	Mandatory for NHS since 2011 National Joint Registry





"You cannot fatten a cow by weighing it" - Palestinian Proverb



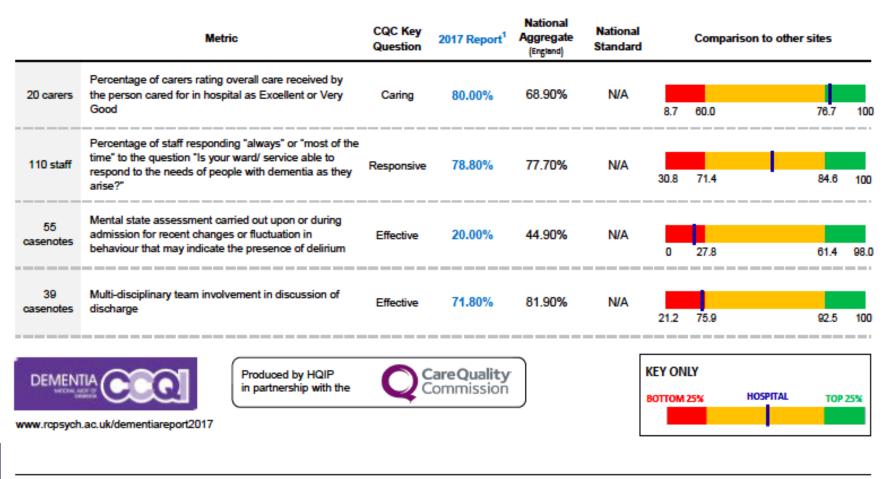
Use of data for improvement

Healthcare Quality Improvement Partnership

Manchester Royal Infirmary

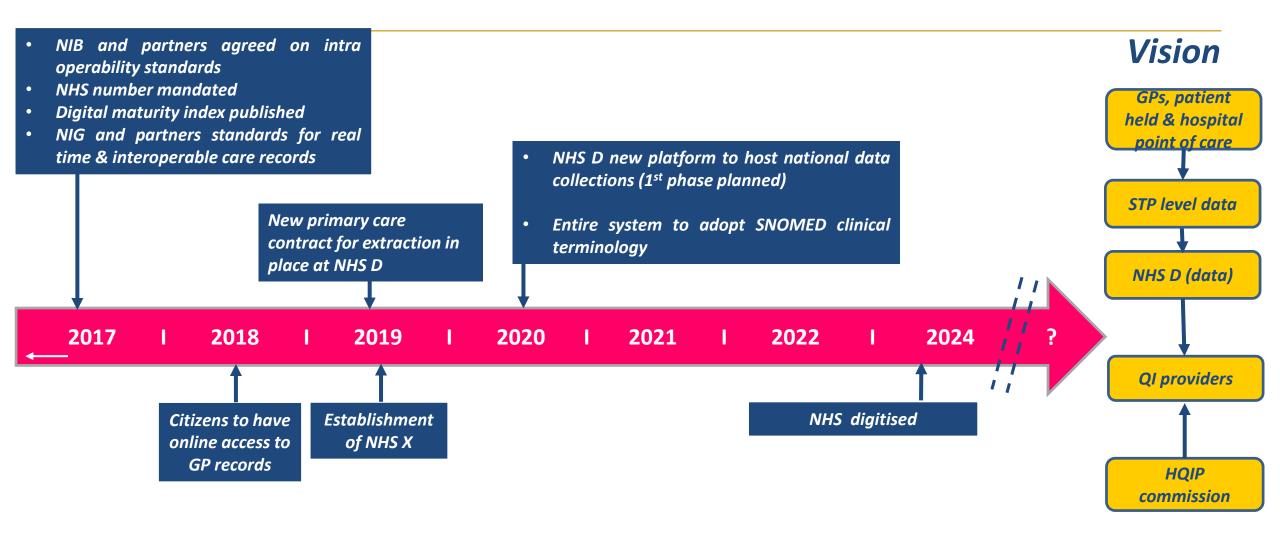
Central Manchester University Hospitals NHS Foundation Trust

National Audit of Dementia



ate is 11/2

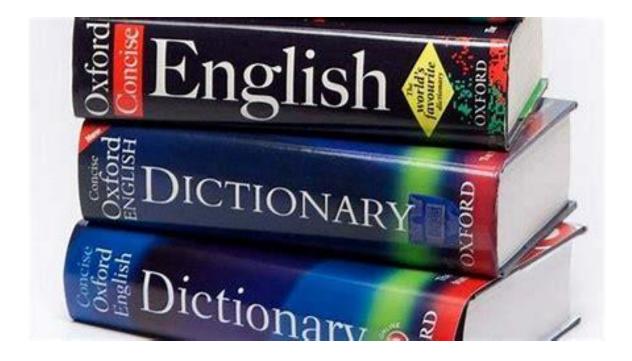
Information for QI in a digital NHS – steps to the Vision



Questions:

- Role and update of HES
- Patient objections management of impact
- Influencing /positioning with EHR providers







Reflections on our journey so far...







Understanding the ambition, scope, design, ethos







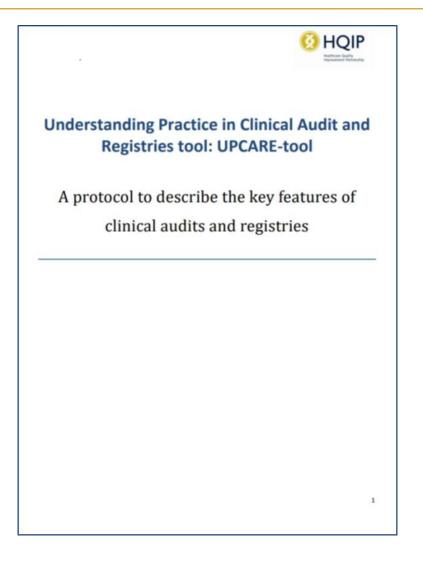
Metadata Onboarding





Metadata Onboarding





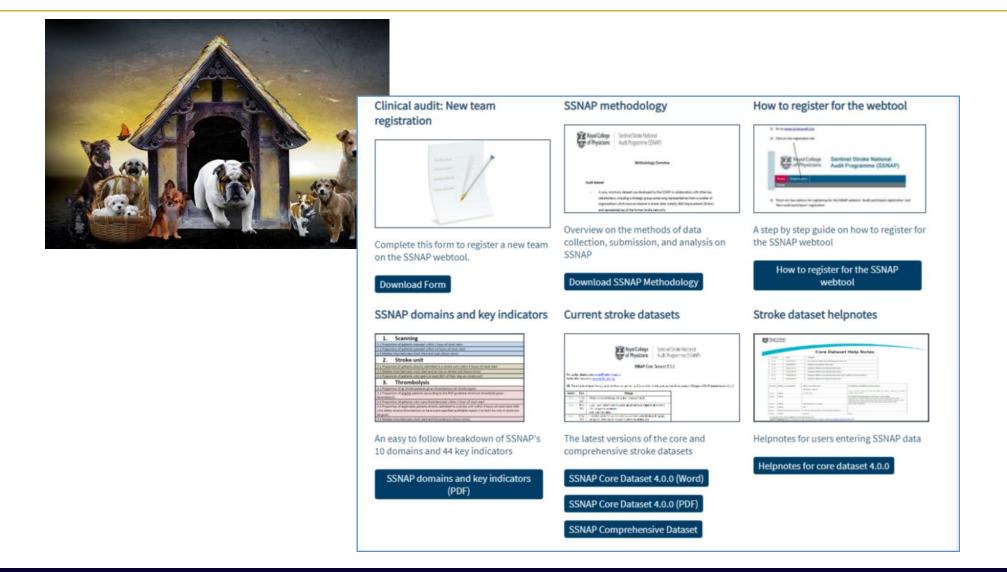


The Data Officers' Group





The Data Officers' Group





View to the future









• Jane.Ingham@hqip.org.uk

• <u>Yvonne.Silove@hqip.org.uk</u>



UK Health Data Research Alliance

UK Health Data Research Hubs – improving the UK's health data

Elizabeth Sapey, Director, PIONEER – The Health Data Research Hub for Acute Care Ben Gordon, Digital Innovation Hub Programme Director, Health Data Research UK



Health Data Research Infrastructure



Across the Hubs, 39 datasets are now discoverable on the Gateway

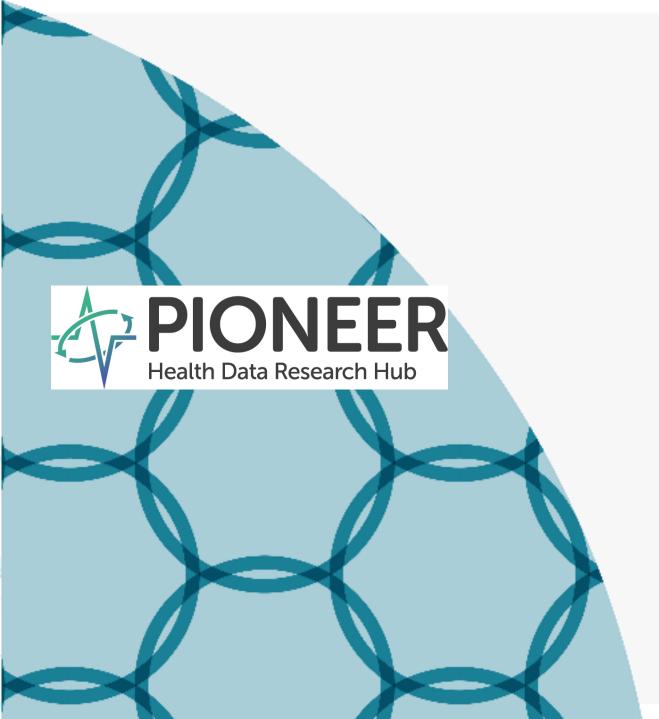


မှိနှင့် Hub	<u>لَّابُ</u> Datasets on Gateway	Notes
Gut Reaction	7	Range of demographic and clinical data on IBD, relating to IBD registry
Breathe	7 (plus partial metadata from 10 more)	Includes cohorts, medical records and genome-wide association studies. All in SAIL: additional phenotype definitions, metadata and individual records available
Discover-Now	9	Multiple descriptions or components of single, linked dataset which includes community, primary care, prescribing and mental health data from North West London
Data-Can	3	Longitudinal real-world studies (Macmillan): Linked clinical and genomic (GeL); Clinical studies in paediatric cancer (Leeds and London)
Insight	2	Entire ophthalmic datasets from UHB and Moorfields — to form largest ophthalmic imaging dataset in the world
NHS DigiTrials	7	National datasets from NHS Digital to support feasibility service
Pioneer	4	Society of Acute Medicine database; acute inpatient episodes from UHB; out of hours primary care; longitudinal genomics data

All Hubs have developed tailored PPIE plans that have been reviewed by the HDR UK Public Advisory Board and each other

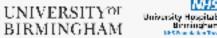






Health Date Respar Birmingham Health Partners Collaboration. Innovation. Application. On your marks, get set, go! **Hub development and delivery Dr Elizabeth Sapey Director of PIONEER**

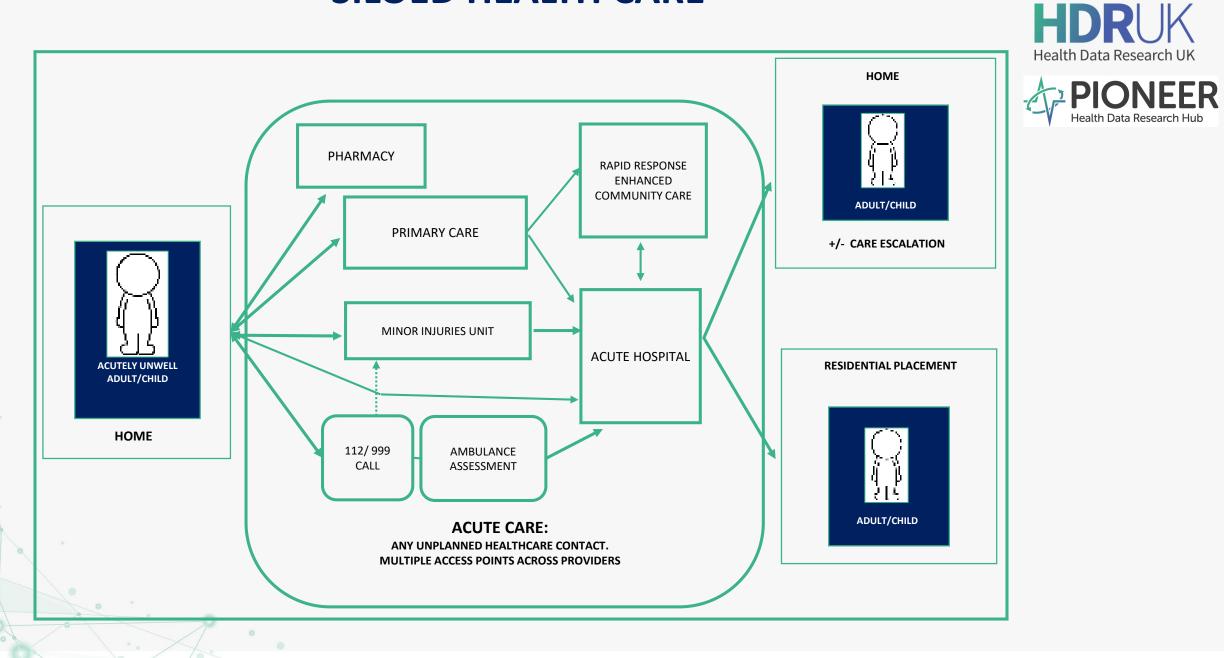
Delivered by





BIRMINGHAM

SILOED HEALTH CARE



Challenges

Patient and HCPs

•Lack of clarity of patient pathways •Results not shared

- •Results not shared
- •Lack of joined up thinking across providers
- Diagnostic delay
- •Health inequalities
- Poor health outcomes

Researchers

- Unclear what data are there
- Unknown quality
- Poor accessibility
- Minimal linked data
- Slow to access
- Further curation needed



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Our Aims across Hubs

Health Data Research Hub

- Transparency in what data is available now
- New datasets generated
- Curated within hubs to improve quality
- Discoverable and accessible
- National governance policies implemented with equity
- Strongly directed by patient and public partners
- National framework to ensure benefit to NHS and UK population

Our aim

- Individually link data across acute health care providers
 - Primary care, Out of hours, Ambulance, Secondary Care, Community Care
- Start with an acute care contact, then curate data from onset to outcome
- Episode/ Disease agnostic and multi-morbid inclusive
- Ageless (including children and adolescents)
- De-identify for research and innovation
- Describe and model/ test points of change
- Patients at the heart of executive decision making

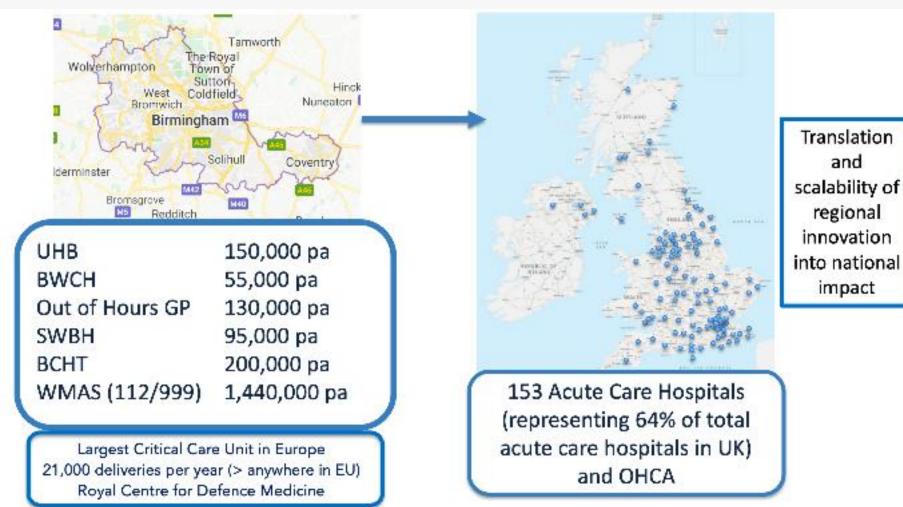


Size and Scalability





• Integrated Regional Depth Applied to the National Environment





Lessons learned. 1

- Public and patients are generous and altruistic in how their data is used
 - They are interested in this process and want this to work
 - But we must never take that for granted
- There is too much to do to and time is pressing
- Partnership working is vital
 - Public/ Patient/ Clinical/ Computer science/bioinformatics/ IG/ R&D/STP/ Academic/ Industry/ Policy



Lessons learned. 2

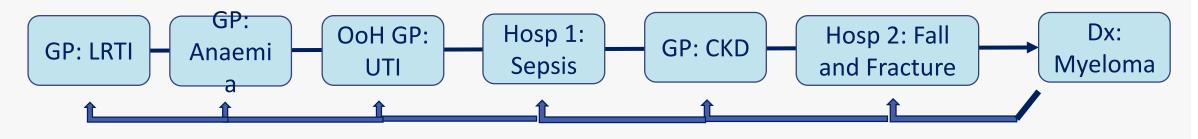
- NHS bodies are keen to share data
 - Recognise differences in digital maturity
 - Demonstrate patient benefit with the data shared
 - Reducing health inequalities
- Transparent governance framework and accountability
- Transparency in what we are doing
 - Licensing access for specific uses
 - Always for patient benefit
- Benefits are real and important

Individual pathways explored in detail





Diagnostic delay of years

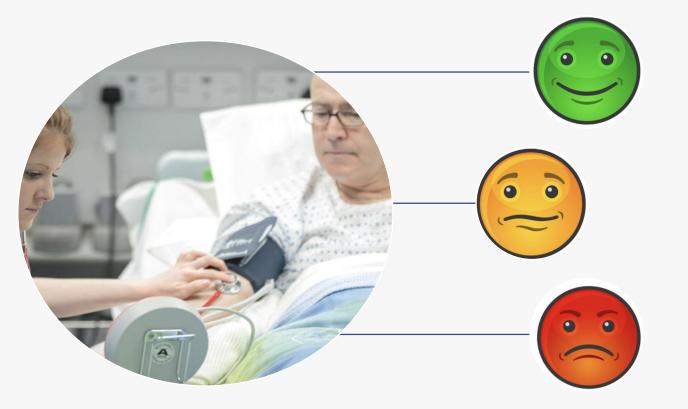


- New devices, software prompts, Healthcare AI to detect earlier patterns of disease
- Earlier diagnostic opportunities
- New populations for novel interventions

Real world data to stratify/personalise





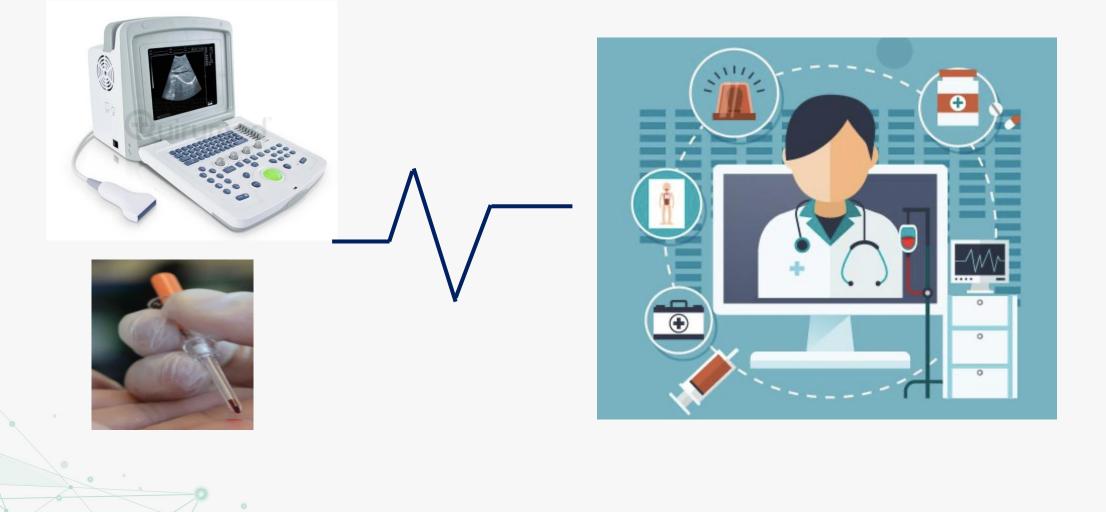


- Real world diagnosis/ therapeutic pathways and real world patients
- Health care processes / Strategy and policy

Using AI to optimize care







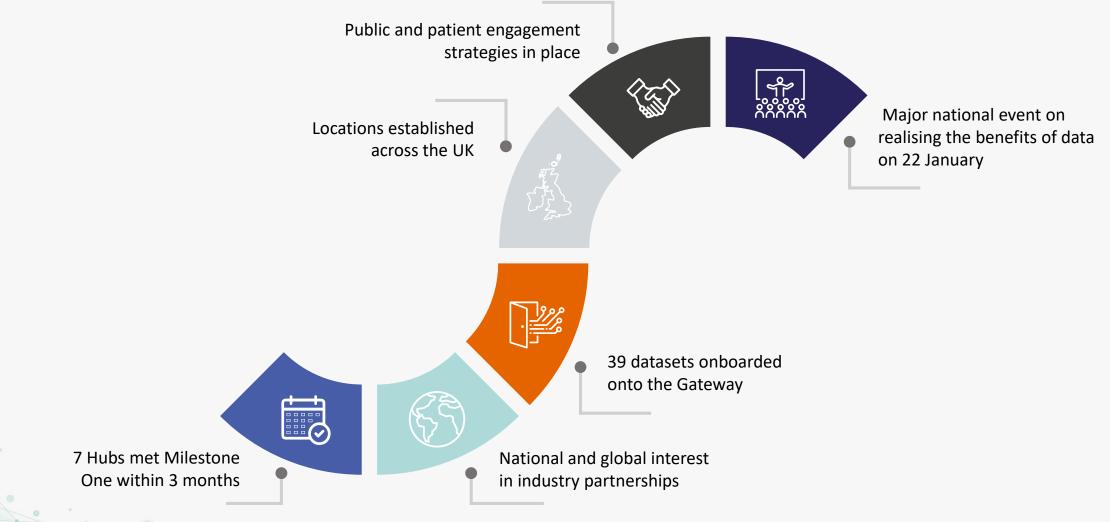




- More and better
- Keep reinforcing the huge potential for benefit
- Be transparent in our processes
- Learn from each other
- Own our mistakes and learn from these
- Be guided by our patient and public voices
- Make our patients extremely proud of what their data has and will achieve for the UK and beyond



Health Data Research Hubs



What comes next for hubs?

Milestone 2: Service Delivery – 31 March 2021

 "Evidence that the quality of the datasets has been improved (curated) and that the curated data is discoverable through the Gateway. Provide publishable enhanced service case studies (e.g. from industry, academia and NHS) that demonstrate impact (and expected impact) and value to researchers and innovators from a range of sectors, and to patients and populations. Provide evidence that the Hub is continuing to engage and involve patients and the public in a meaningful manner."

Area	Now	Going forwards
PPIE	Groups established PPIE plans in place	Learning Continuous improvement
Data	Discoverable Quality baseline	Increasing scale, coverage, depth, quality and linkage
Use cases	Work underway	Demonstrating impact Supporting NHS, academia and industry

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Panel Q&A

Angela Coulter, Chair, Public Advisory Board, Health Data Research UK Ben Gordon, Digital Innovation Hub Programme Director, Health Data Research UK Elizabeth Sapey, Director, PIONEER – The Health Data Research Hub for Acute Care Caroline Cake, COO & Deputy Director, Health Data Research UK Jane Ingham, CEO, HQIP Yvonne Silove, Associate Director, HQIP Chair: David Seymour, Partnerships Director, Health Data Research UK @HDR_UK | #hdralliance



UK Health Data Research Alliance

Cross-cutting workstreams & breakout workshops

- Refreshment break: 11:30-11:50
- Cross-cutting workstream presentations: 11:50-12:15 (livestreamed)
- Cross-cutting workstream breakout workshops: 12:15-13:00
- Lunch: 13:10-14:00







Workshop: Earning, building and sustaining public trust

Amanda White, Communications & Engagement Direction, Health Data Research UK

11/02/2020



Aim: to agree practical steps and methodologies for how we earn trust and enable patients and the public to have confidence in our work

11/02/2020

Expected outputs of workshop

- Examples of ways that organisations are already earning public and patient trust
- Suggestions for reaching seldom heard groups
- Examples of existing resources, tools and methodologies







Workshop: Commercial sustainability

Joanne Hackett, Chief Commercial Officer, Genomics England



11/02/2020



Workshop: Ethics & information governance

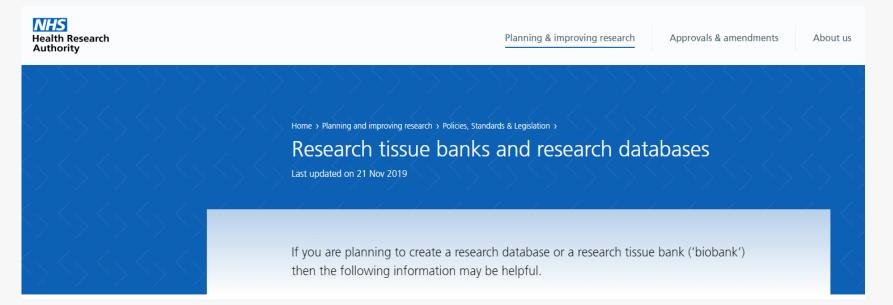
Clark Crawford, Ethics & IC Lead, INSIGHT – The Health Data Research Hub for Eye Health

11/02/2020



Ethical Frameworks

Health Research Authority



- Entirely Voluntary
- 409 Databases are approved by an NHS REC
- Akin to Tissue Directory and Coordination Centre : <u>https://biobankinguk.org/</u>

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Legal Frameworks

The Common Law Duty of Confidentiality

Topics: Good management, good records , Legal and professional obligations

Common law is not written out in one document like an Act of Parliament. It is a form of law based on previous court cases decided by judges.

- Lessons Learned:
 - Identifying Legal Entities (Trusts, Cloud Service, etc)
 - Identifying Existing Data Controllers (e.g. Trusts)
 - Identifying Data Controller(s) for the Hub Activity
 - Defining activities under the control of the "Hub Data Controller(s)"
 - Identifying Legal Basis and exemptions
 - Assurances around Security
 - Transparency to data subjects

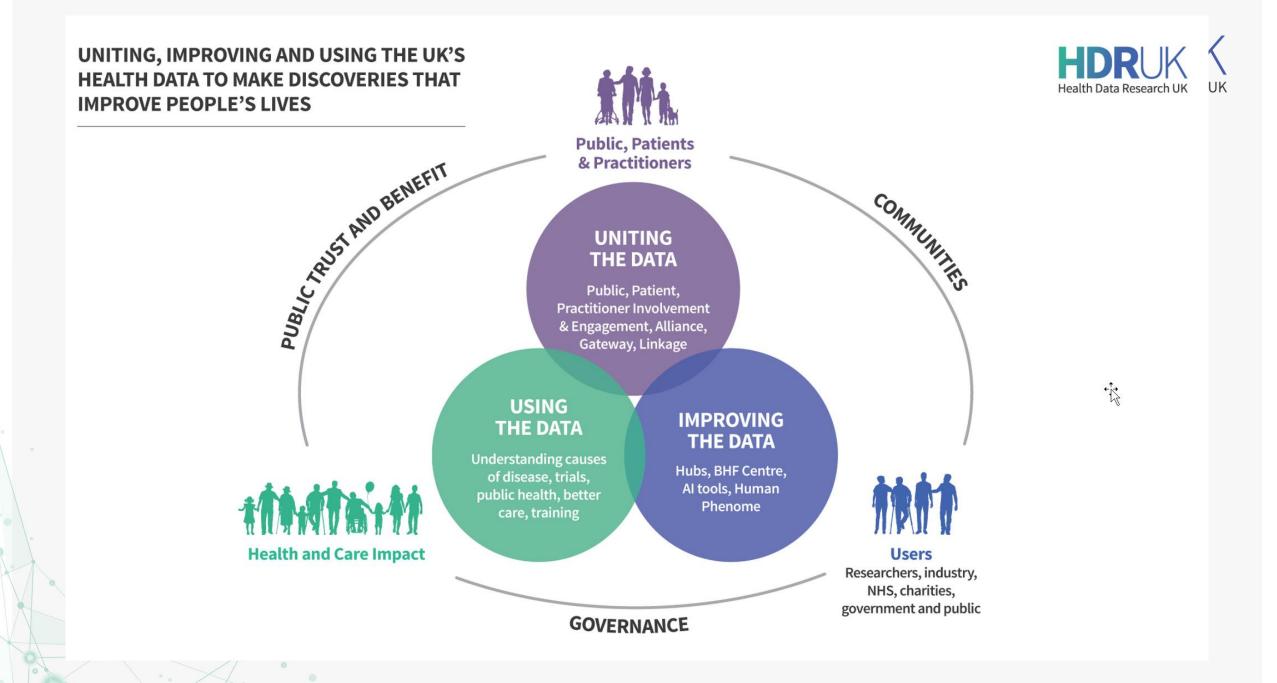
Data Protection Act 2018 UK Public General Acts + 2018 c. 12 + Table of contents					
Table of Contents	Content	Explanatory Notes 🧿			
What Version	0				
Latest available (Rev		Status: This is the original version			



Workshop: Data quality & standards – improving the data

Neil Sebire, Chief Data Officer, Health Data Research UK Monica Jones, Chief Data Officer, DATA-CAN – The Health Data Research Hub for Cancer

11/02/2020



Health Data Standards and Interoperability issues

Define data elements

WHAT to collect

Define format of data

HOW to collect, store, represent, model, syntax, structure/Data model (FHIR, OMOP, openEHR, proprietary etc)

Define terminologies / classifications / ontologies used

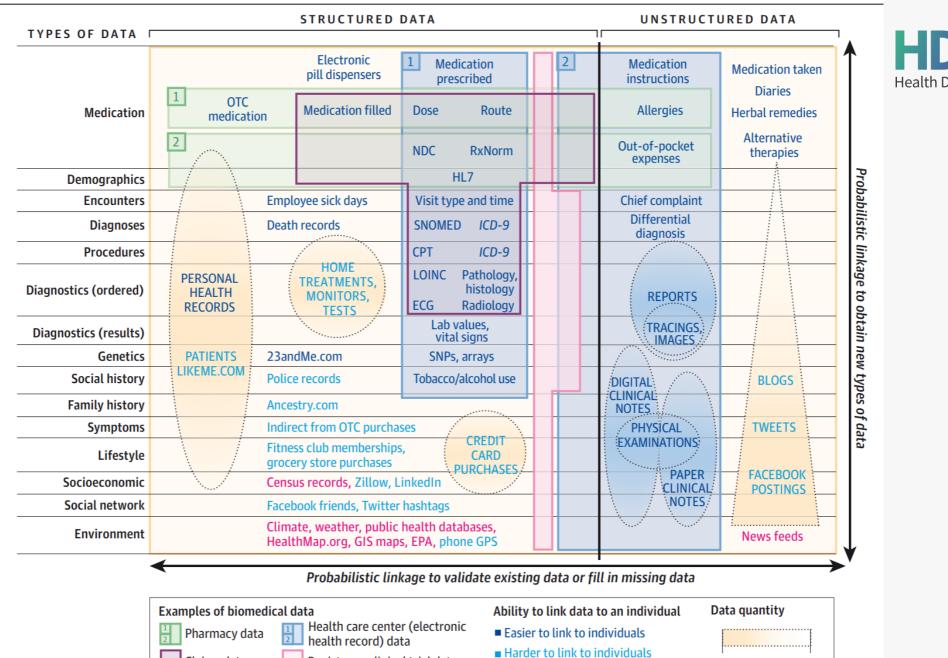
WHICH terms and definitions and their relationships (SNOMED CT, LOINC, DM&D, ICD10 (diagnoses), OPCS4 (procedures), HPO)

Define semantics / phenomics

MEANING clinically of the terms and data values plus knowledge representation







Only aggregate data exists

Figure. The Tapestry of Potentially High-Value Information Sources That May be Linked to an Individual for Use in Health Care

Registry or clinical trial data

Claims data

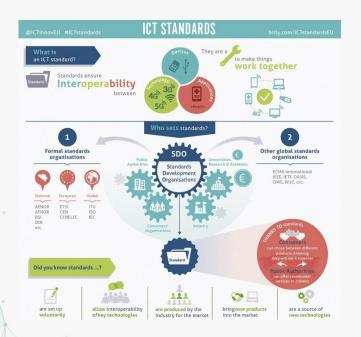
Data outside of health care system

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Dataset Utility: Data standards, data quality, other factors



Which standards should HDRUK support

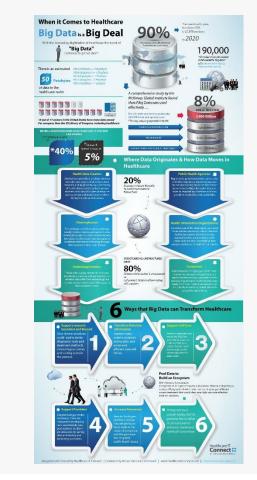


How should we measure data quality / utility?



Can the data be used for additional purposes (e.g., a market sizing

What level of 'curation' is reasonable / valuable





Workshop: Trusted research environments

Tim Hubbard, Associate Director, HDR UK London





Trusted Research Environments



- Proposal that UK HDR Alliance commits to "5 safes".
- Central principle:
 - no distribution of individual level data;
 - all processing and analysis within Trusted Research Environment (TRE) (safe setting)
- Multiple examples of TREs operating successfully in this way
- Public is highly sensitized to issues around use of health data.
 Clear commitment to operating in this way provides a unique chance to "reset" public confidence.

Data reuse via distribution



- Specific request for access received, reviewed, approved
- Specific anonymised dataset prepared within safe haven
- User downloads dataset and carries out analysis on own computer system
- Issues
 - Data custodian loses of control of data
 - Cannot completely guarantee anonymity
 - Genome data can only be de-identified
 - Lack of public trust
 - Holding health data can be a liability under GDPR
 - Overall expense of transferring, storing, maintaining multiple copies of large datasets

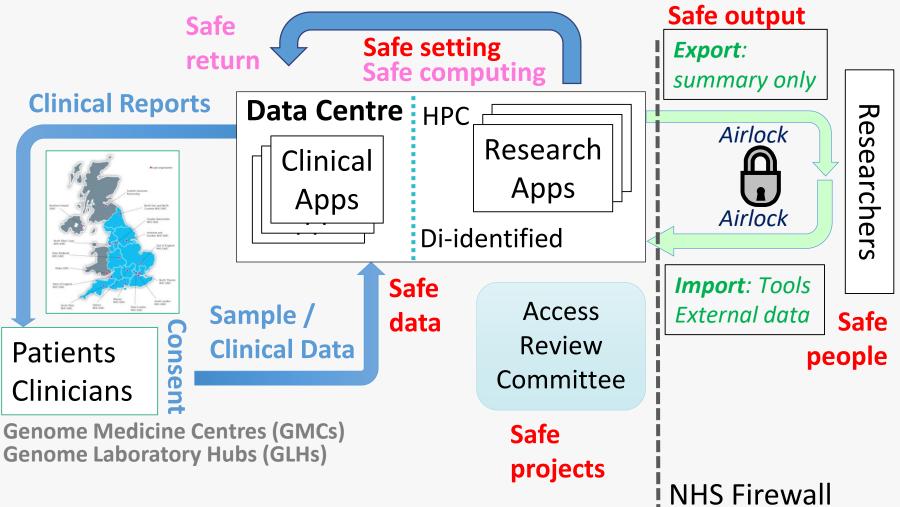
Data reuse via access



- Generic anonymised dataset prepared within a Trusted Research Environment (TRE)
- Generic request for access received, reviewed, approved
- User logs into TRE and carries out analysis
- User requests export of results (summary data)
- Benefits
 - Data custodian maintains control of data; retains public trust
 - Data privacy no longer depends on anonymization process
 - Less costly holding and securing a single copy of the data
 - Virtualisation / cloud computing make being algorithms to date and provision of scalable compute environment practical
 - Privacy controls shifts from individual to summary level

Data design for 100,000 genomes project Trusted Research Environment (TRE+)







UK Health Data Research Alliance

World café sessions

Lunch: 13:10-14:00

World café pitches: 14:00-14:25 (livestreamed)

World café discussions x 4 (15 mins each): 14:25-15:25

Refreshment break: 15:25-15:40

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World café: format & purpose



- **Purpose**: the world café roundtables are an opportunity to network, showcase work across the infrastructure and celebrate achievements
- Format:
 - Each word café host will deliver a 1 minute pitch. You will then decide which four to attend.
 - Join 4 x 15 minute world café discussions over one hour
 - These are informal enjoy!



World café

1. Data infrastructures: How will we know when we've got it right? Paul Jackson & Elizabeth Waind, ADR UK	 How can NHS DigiTrial deliver the maximum impact for customers and Alliance members Heather Pinches & Charlie Hooper, NHS Digital/IBM
2. Methods and evidence standards for data Adrian Jonas, NICE	12. Real-World Evidence: Current barriers and future wishlists Chris Russell, Discover-NOW – The Health Data Research Hub for Real World Evidence
HDRA terminology: Are we speaking the same language?Macey Murray, UCL	13. Knowledge based metadata to drive automation and interoperability Luke Smith, Databiology
4. What does a fair partnership for accessing NHS patient data look like?	14. How can Alliance members work with DATA-CAN? Charlie Davie, DATA-CAN – The Health Data Research Hub for Cancer
5. How can we become more efficient providers of health data for researchers? A regulator's challenge Amanda Evans & Stevan Cirkovic, HFEA	15. How do we assess, capture and report the non-financial value of Hubs? Monica Fletcher, BREATHE – The Health Data Research Hub for Respiratory Health
6. How do we evaluate the impact of using healthcare data to support safer prescribing? Arlene Gallagher, CPRD	16. Can we, should we, use the public cloud for analysis of health data? Neil Walker, NIHR Bioresource
7. Data + Human Tissue = Impact Katy Glazer & Amir Gander, UKCRC Tissue Directory & Coordination Centre	17. CANCELLED
8. Health Data and Industry – opportunities for health data to drive research and innovation in the SME sector Joanne Hartley, MDC	18. Use of FHIR for data science and app delivery to the clinic David Sibbald & Rodrigo Barnes, Ardihia
9. Open science, GitHub, and open approaches to health data research Caroline Morton & Helen Curtis, EBM Datalab, University of Oxford	19. HDR UK metadata standard: future progress Ashutosh Tripathi, Parity & Adam Milward, MetadataWorks
10. Standardising national data access for health tech product development e.g. machine learning components (commercial or non-commercial) Deborah Wake, MyWay Digital Health	20. What are the skills and credentials required to be a user of data? George Moulton, HDR UK



UK Health Data Research Alliance

Closing keynote & wrap up

Refreshment break: 15:25-15:40 Closing keynote: 15:40-16:00 Wrap-up: 16:00-16:15 Networking reception: 16:15-17:00

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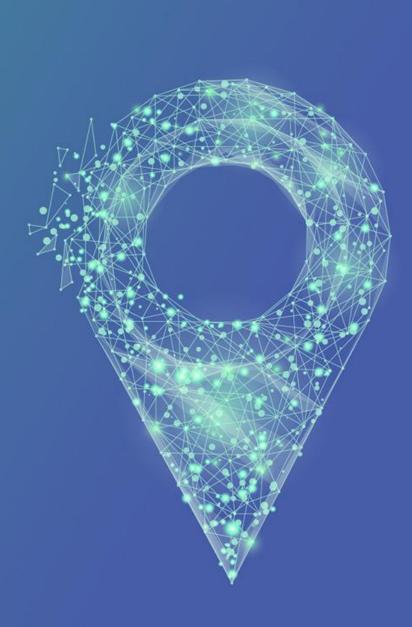


UK Health Data Research Alliance

Closing keynote: Trustworthy access to data

Jeni Tennison, CEO, Open Data Institute

@HDR_UK | #hdralliance



Jeni Tennison @JeniT theODI.org





The ODI









Dr Jeni Tennison CEO Sir Nigel Shadbolt Chairman Sir Tim Berners-Lee President Founded in 2012, the Open Data Institute (ODI) is an international, independent and notfor-profit organisation based in London, UK.



Mission

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We want a world where data works for everyone.

We work with companies and governments to build an open, trustworthy data ecosystem.



The data value chain and threats to its impact

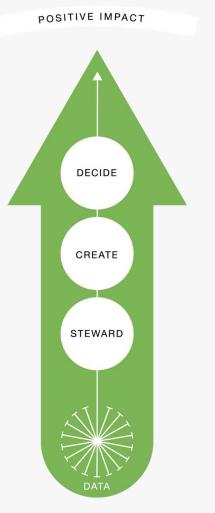
- ► The importance of trust and how to retain it
- Emerging institutional models for trustworthy access

Getting value from data

- Many different people and organisations making decisions
- Many creating tools & insights that help those decision makers
- Requires stewards to share data



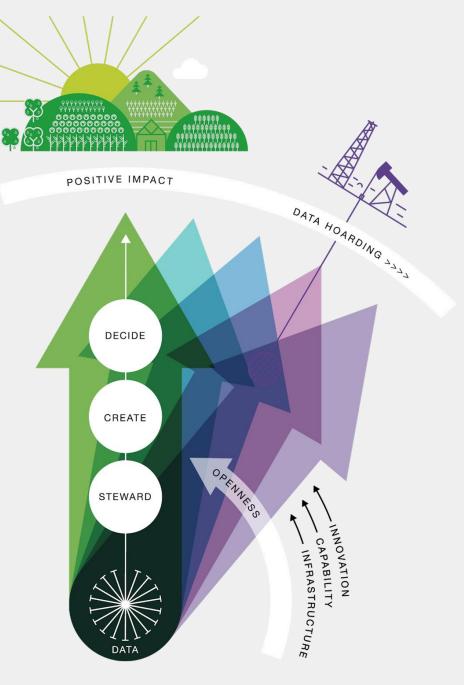






Data hoarding threat

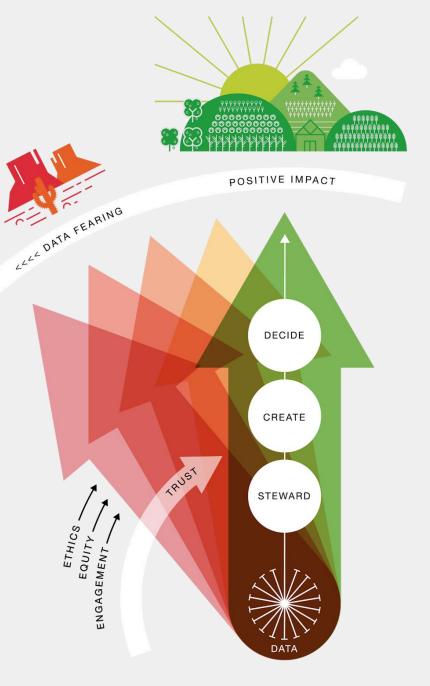
"Data is oil" attitude Vertical, in-organisation data use Narrow decision maker needs Restricted intermediary market Data extraction





Data fearing threat

Not collecting data Not using data Withdrawal of consent Misleading data Poor conclusions





The data value chain and threats to its impact

The importance of trust and how to retain it

Emerging institutional models for trustworthy access

Fear and distrust is infectious



care.data

Distrust about personal health records being sold to pharma and other companies.

Royal Free/Google DeepMind

ICO ruling that Royal Free breached Data Protection Act; distrust about Google's access to patient records.

General distrust of big tech

Most surveys show only about 4-5% of people trust big tech to handle data ethically.

General fear of NHS privatisation

Political debate about NHS provision and role of the private sector.

Trusted

How can organisations win the trust of others?

Trustworth

What does doing the right thing look like?

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Points of failure in trust



Misunderstanding

When the people you want to trust you don't interpret what you tell them in the way you intended

Misrepresentation

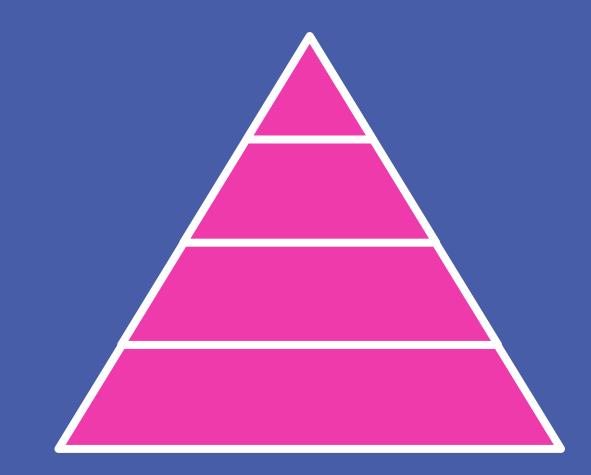
When you don't do what you say you're going to do (whether that was intentional or not)

Lack of updates

When you don't tell people how and when circumstances change, that impact your actions

Lack of information

When you and others don't have enough information to make sound decisions

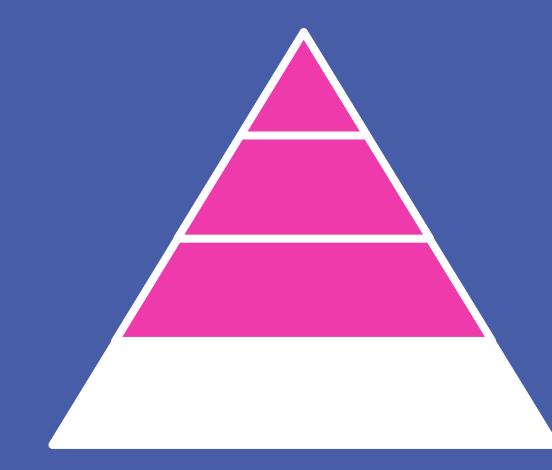


equity

engagement

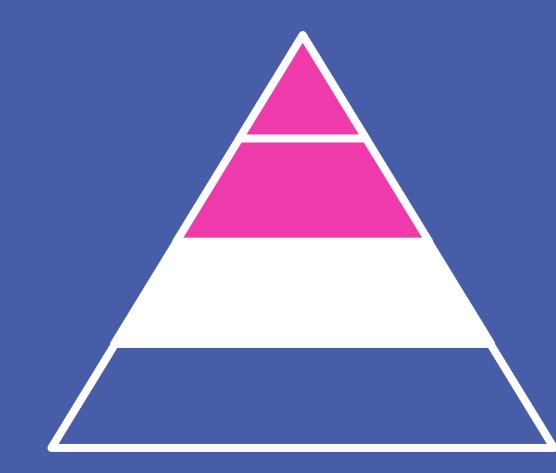
ethics

compliance



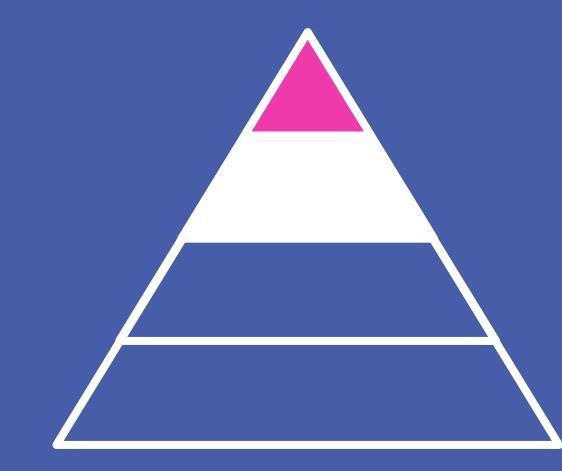
Compliance

Protect personal data Comply with the law Comply with codes of practice



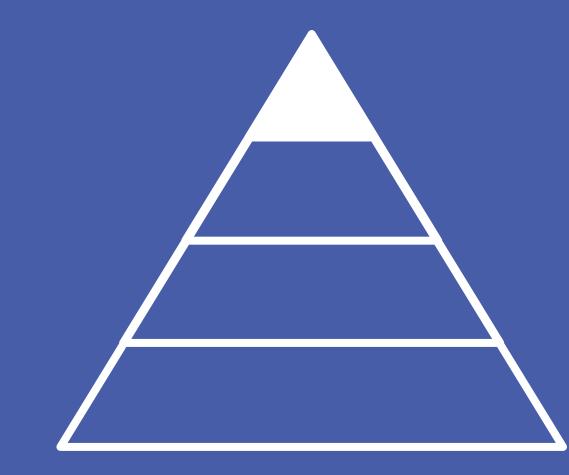
Ethics

Be open and transparent Publish ethical principles (eg HDRUK DIH Principles of Participation) Do compliance well Embed ethical practices



Engagement

Establish advisory boards Ask affected communities what they think (eg PPIE) Act on what they say Give them veto power



Equity

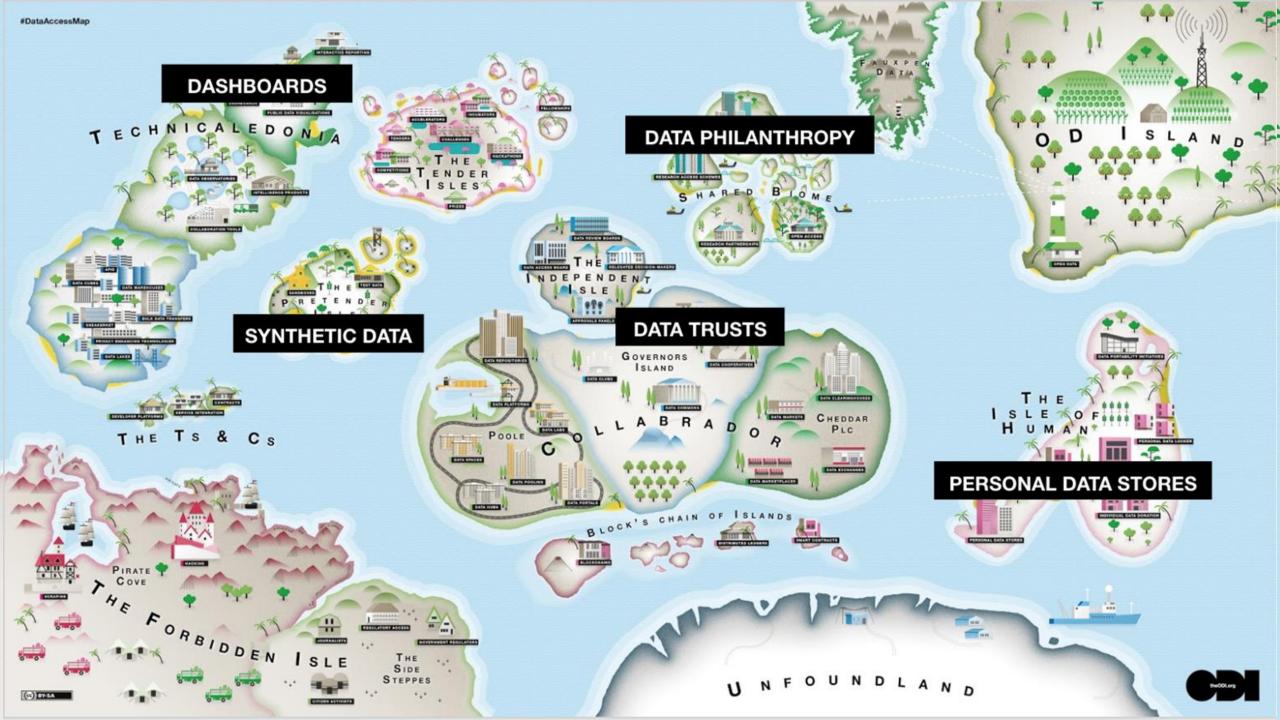
Describe revenue models Describe value return Ensure equity in who benefits Build into corporate structures



The data value chain and threats to its impact
The importance of trust and how to retain it

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Data institutions



Increase data access

Enabling organisations to work and innovate together across a sector or for purpose Supporting benchmarking Creating new opportunities Ensuring the benefits of data are shared more widely

Balance conflicting views and incentives

Between those who have data, those who could use it, and those affected by the way it's used

Reduce the costs of data stewarding

By providing a common service to manage the operations of well governed data access

New institutions for the data age

Data institutions



Data clubs

Inspired by members clubs, enable organisations to share data with other organisations who are part of the club

Data commons

Inspired by the management of common pool resources, help organisations or people collaborate to create and maintain shared data assets

Data cooperatives

Inspired by mutual organisations, enable members of the cooperative (organisations or people) to share data with others, with data governance decisions made by those members

Data trusts

Inspired by legal trusts, enable people or organisations to share data with others, with data governance decisions made by 'trustees' with fiduciary responsibilities



Trustworthy & trusted

What could the external environment provide to help confer trust (eg accreditation, certification, insurance)?



Sustainable

What structures and revenue models provide for longevity, reliability and coherence with purpose?





The data value chain and threats to its impact
 The importance of trust and how to retain it
 Emerging institutional models for trustworthy access

Any questions?

If you would like to talk to us about collaborating, partnering, supporting our work, or anything else, we'd love you to get in touch.

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UK Health Data Research Alliance

Wrap up & close

David Seymour, Partnership Director, Health Data Research UK

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Thank you!

11/02/2020