

Healthcare Data For Research

Creating positive health outcomes through data

Presented by:

Graham Spearing, Product Lead, Data Alliance, NHS Digital



Presentation Content

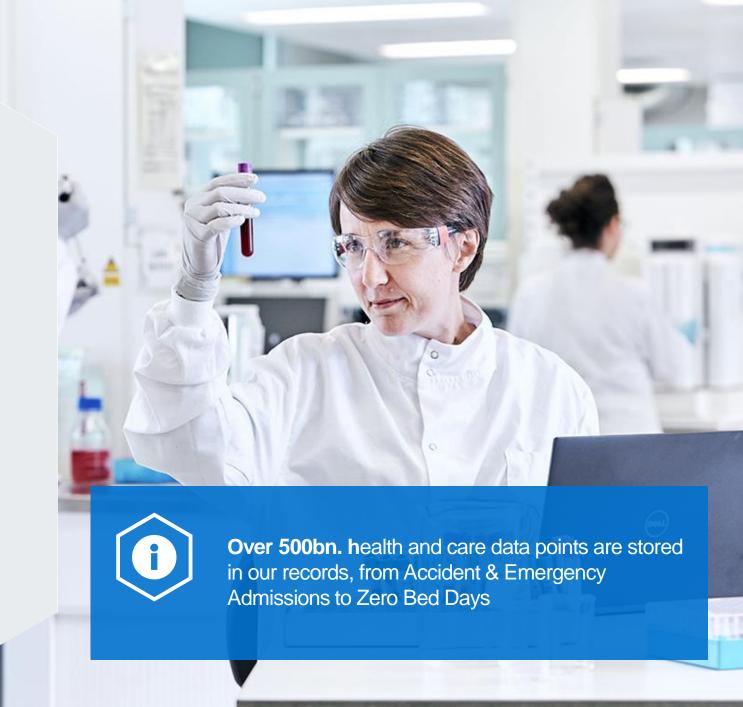
- NHS Digital who are we?
- National Response to Covid-19
- Looking to the future with our Data Platform

NHS Digital – who are we?



Researchers and planners use our data for discovery and insight

We publish 300 official health and care data sets every year, supporting life sciences research, helping local and national planning and enabling accountability



NHS Digital's place in the health and care system

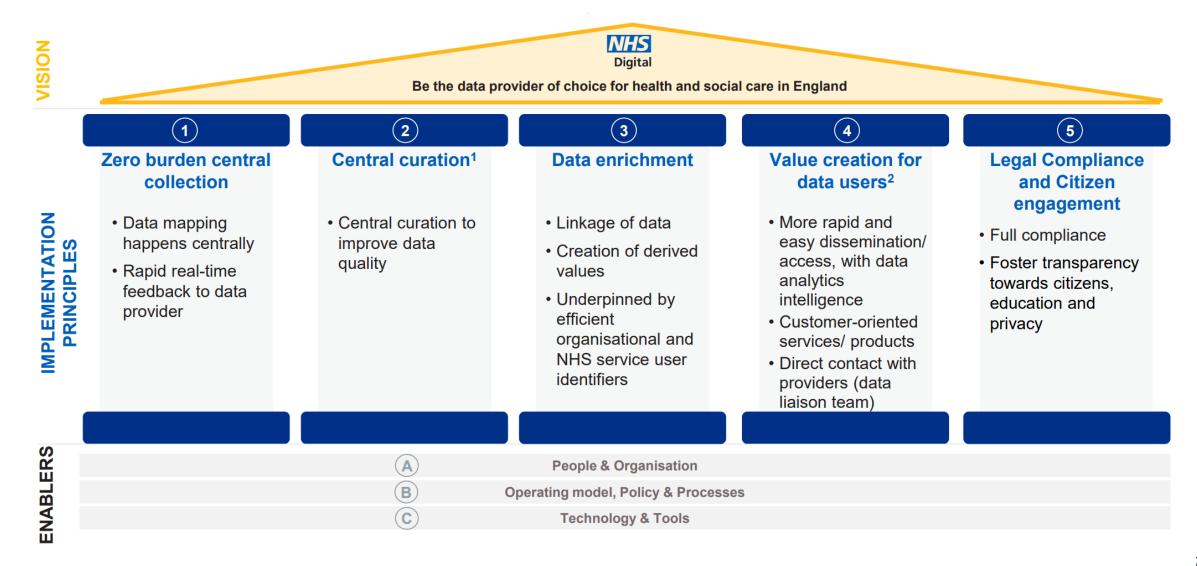
NHS Digital supplies information and data to the health service, provides vital technological infrastructure, and helps different parts of health and care work together.

Our Responsibilities include:

- collecting, analysing and publishing health and care data
- making submitting data easier for health and care staff
- providing national technology for health and care services
- producing information standards
- improving the quality of health and care information and data
- publishing national indicators for health and care, to measure quality and progress



NHS Digital Data Strategy



National Response to Covid-19

This time last year...

Some examples of NHS Digital's work:

- The Recovery Trial
- The Shielded Patient List
- GPES data for pandemic planning and research (COVID-19)
- Test Trace, Contain and Enable
- Dashboards
- Trusted Research Environments

https://digital.nhs.uk/coronavirus





NHS DigiTrials

We have contributed data and data services that have resulted in:

- discovery of three successful treatments for COVID-19 (Dexamethasone, Tocilizumab and Budesonide)
- development of three effective vaccines (Oxford-AZ, Novavax and Janssen)
- fast scale-up of convalescent plasma donation programme to enable clinical trials
- enabling timely recruitment into community therapeutics trials
- discovery of genes which increase susceptibility to life-threatening COVID-19 (GENOMICC);
- novel data set allowing analysis of household transmission (HOSTED) underpinning strategic decision-making on the pandemic response e.g. school closures.



NHS Trusted Research Environment for England

Working in partnership with Health Data Research UK (HDR UK) and our first client, the British Heart Foundation Data Science Centre (BHF DSC)

<u>DATA-CAN</u>, the UK's health data research hub for cancer, recently completed the process necessary to access key cancer data within NHS Digital's TRE.

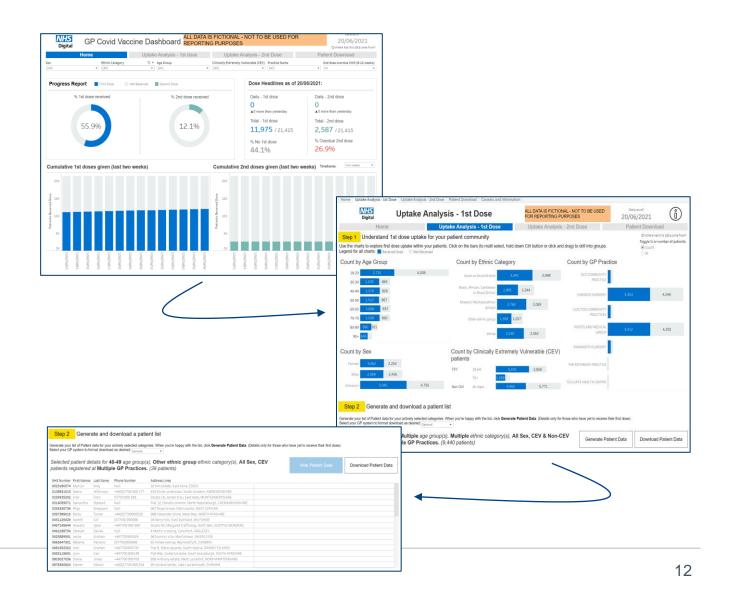
- CVD-COVID-UK consortium currently researching impact and effects of the COVID-19 on cardiovascular diseases.
- Currently <u>16 approved research projects</u> under way using data held by NHS Digital.
- Initial publication of <u>BMJ paper</u> which describes data covering 96% of the population.
- Approved researchers provided with secure access to de-identified cancer data for COVID-19 related research on rates of cancer referrals, diagnoses and treatment.
- Further national cancer data sets (Cancer Outcome and Services, Chemotherapy and Radiotherapy data) available from October 2021.



GP Covid Vaccine Dashboard

Targeted at GPs and PCN-led Local Vaccination Services, the dashboard is an optional tool which visualises Covid Vaccine uptake across patient groups and provides patient contact information to arrange a 1st dose or get a pending or overdue 2nd dose booked in.

The overall goal is to help PCN-led Local Vaccination Services boost vaccine uptake across all groups at that local level





COVID Oximetry @home

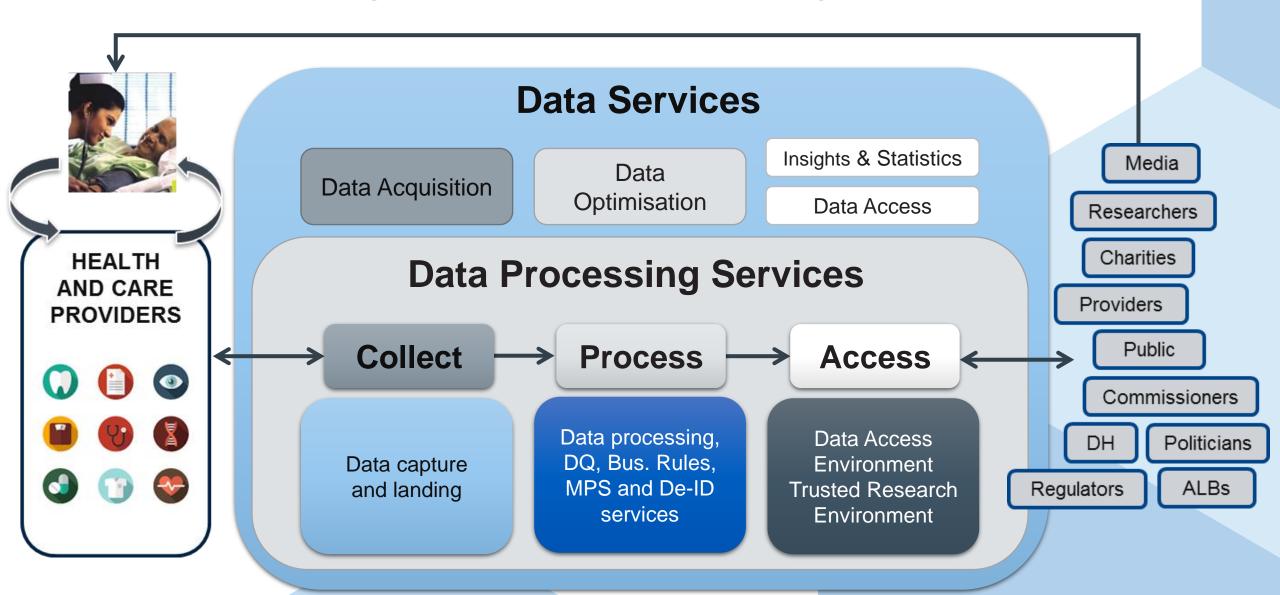
COVID Oximetry @home programme led by NHS England. NHS Digital's primary role is to deliver data, digital architecture and support evaluation.

- daily list of patients testing positive for coronavirus sent to Oximetry @home providers, with indicators included for those meeting recommended eligibility criteria
- weekly data collection from Clinical Commissioning Groups (CCGs) about patients onboarded and offboarded
- evaluation dataset provided to evaluation partners at Imperial Collage and the Health foundation to check the service effectiveness.
- Creation of new SNOMED codes for providers to code Oximetry @home activity accurately
- updating NHS Pathways to enable COVID Oximetry @home patients to be identified and triaged effectively
- updating NHS systems to make other services aware that a patient is being monitored by COVID Oximetry @home
- Support for the integration of COVID Oximetry @home apps with other NHS systems



Looking to the future with our Data Platform

Our Evolving Data Processing Services



Our objectives

- Process NHS data at scale
 - Support greater collection capacity
 - Faster processing and availability
 - Standardising and simplifying legacy technologies
- Linking data
 - Flexible linking of data for richer analytics
- Enabling 'Bring you own data' capability
 - Analysts can bring in data to enrich analysis
 - Minimises the need for data to leave secure environment
- Support data science innovation
 - Industry recognised analytical tools for deep analysis



