A. NHS antibiotic prescribing research project

Existing data about us is matched, linked and compared to help GPs use antibiotics better

1. University researchers request the datasets they need to do their project

2. NHS Digital and CPRD collect, match and anonymise the datasets

3. University researchers analyse the data

4. Healthcare professionals and policy makers use the anonymous data for decision-making

NHS PROVIDERS
Data about patient visits to A&E and out-of-hours clinics

GP PRACTICES
Healthcare professionals record patient data directly into the patient’s electronic health record. It is optional whether this is shared.

NATIONAL AND LOCAL GOVERNMENT
Data about relative deprivation of locations

ONS
Data about registered deaths

NHS DIGITAL
CPRD
IDENTIFIABLE and DE-IDENTIFIED DATA

UNIVERSITY OF MANCHESTER
the data controller

DE-IDENTIFIED DATA

ANONYMOUS DATA

ACADEMIC RESEARCH PUBLICATIONS

NATIONAL ANTIBIOTIC PRESCRIBING DASHBOARD

HEALTHCARE PROFESSIONALS

POLICY MAKERS and HEALTH STAKEHOLDERS
B. NHS Covid-19 data store

A national, secure data store to hold data in one place to help national organisations responsible for coordinating the Covid-19 response

What NHS organisations say about the Covid-19 data store has changed several times and information exists in different places. This is our representation of what we currently understand. The parts of the visual that have been blurred are the parts where there is uncertainty about what is going on.

1. NHS England contracted commercial organisations to help build and run the NHS Covid-19 data store

2. NHS England collect, check and de-identify data and then upload it to the data store

3. Several organisations are analysing the data

4. Government, NHS and the public can see anonymous data about the coronavirus and use it to make decisions

Who has access to data, for what purposes and for how long?

DE-IDENTIFIED DATA

ANONYMOUS DATA

PALANTIR built and manage the platform

AMAZON WEB SERVICES are providing infrastructure and technology

A MICROSOFT cloud platform has been used to build the data store

FACULTY, MCKINSEY and DELOITTE are helping PALANTIR to analyse and communicate the data

NHS ENGLAND, the data controller

NHS COVID-19 DATA STORE

What NHS organisations say about the Covid-19 data store has changed several times and information exists in different places. This is our representation of what we currently understand. The parts of the visual that have been blurred are the parts where there is uncertainty about what is going on.

The parts of the visual that have been blurred are the parts where there is uncertainty about what is going on.

Who has access to data, for what purposes and for how long?
C. BBC Own It app for children

Children receive real-time, well-being advice and content recommendations and no identifiable data leaves their phones.
D. Data sharing & re-use

Where data collected by one organisation is then shared with another organisation.

**NHS antibiotic prescribing research project**

Researchers request the data they need to do their project.

- **DATA COLLECTION**
  - Data is collected and de-identified by NHS Digital and CPRD.

- **DATA RE-USE**
  - De-identified data is re-used by university researchers.

**NHS Covid-19 data store**

The NHS contracted commercial organisations to help build and run the NHS Covid-19 data store.

- **DATA COLLECTION**
  - The NHS collect, check and de-identify data and then upload it to the data store using tools and systems provided by commercial organisations.*

- **DATA RE-USE**
  - Several commercial organisations* analyse the de-identified data.

* BUT

- We don’t know who has access to data, for what purposes and for how long.

**BBC Own It app for children**

The child chooses to download and use the Own It app.

- **DATA COLLECTION**
  - Data is collected by the app and stays on the child’s phone.

- **DATA RE-USE**
  - Anonymous data is re-used by the BBC to improve the app.

- **DATA RE-USE**
  - The BBC may share this anonymous data with university researchers in the future to help it evaluate products like Own It.