Doing research with sensitive data at the University of Sheffield

Lucy Cheesman, Jake Cooper, Ross McMurray, Simone Croft, [Anthony Brookfield, Will Furnass]

Sensitive Research Data Services @ TUOS

- Research Data Services Manager (Lucy Cheesman)
- Research Data Manager (Ross McMurray)
- Research Data Systems Engineer (Jake Cooper)

Collaborators:

- Platforms Team (Anthony Brookfield, Will Furnass)
- Infosec (Matt Doxey)
- IMS-Smart (David Brewer)
- Data Connect (Simone Croft)

Doing research with sensitive data

- AKA Data Safe Haven (DSH) AKA Trusted Research Environment (TRE) AKA Secure Data Environment (SDE) AKA whatever comes next!
- Secure storage and processing of data
- Accreditation to NHS Data Security and Protection Toolkit (DSPT) and ISO27001 (and maybe CE+)

Policies and processes to support the above:

- Data classification
- Data ingress/egress
- Data deletion

- Access management
- Asset register
- Data protection policy

- Training
- Support
- Etc etc

Informed by the Turing Institute paper: Design choices for productive, secure, data-intensive research at scale in the cloud.

Cloud Computing @ TUOS

- Two (and a bit) platforms
  - RCC
  - DSH
  - AWS accounts
- Two services
  - Cloud computing for research
  - Doing research with sensitive data
- They don't map 1:1
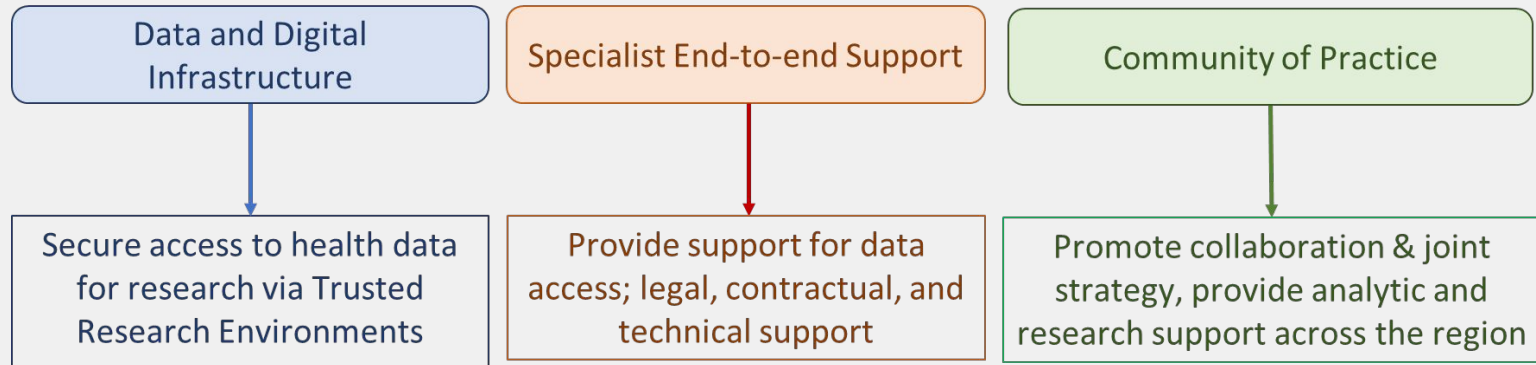- AWS and RONIN
- Data Connect
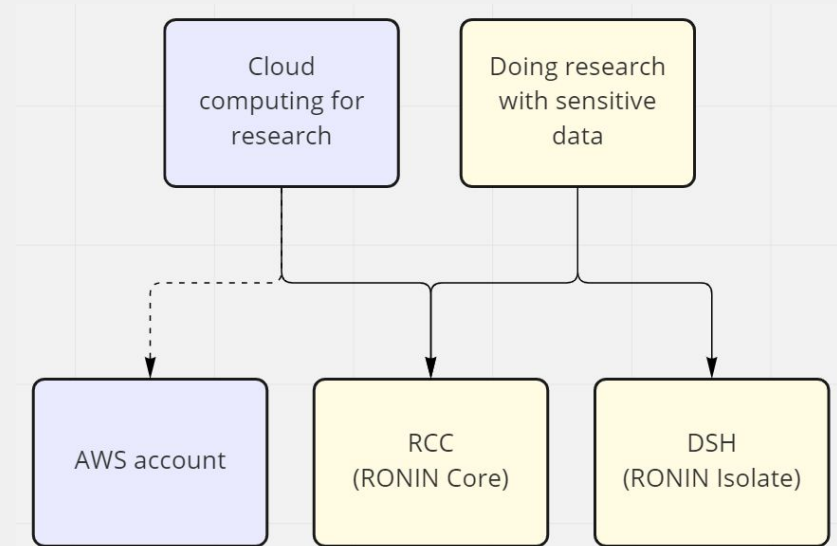
Data Connect

Developing capabilities for health data access for secondary uses to:

- Improve researcher access to health data
- Support population health management across the region

Data and Digital Infrastructure	Specialist End-to-end Support	Community of Practice
Secure access to health data for research via Trusted Research Environments	Provide support for data access; legal, contractual, and technical support	Promote collaboration & joint strategy, provide analytic and research support across the region

Some things we are struggling with/interested in

- Data ingress and egress
- Cost/sustainability of cloud
- Skills/staffing/recruitment
- ISO27001
- DSPT
- CE+
- Interoperability/federation
- People/roles
- Multiple environments at different security levels
- Why cloud? When cloud?
- Service vs platform