SUSTAINABLE DEVELOPMENT GOALS

جهــاز التخطيــط والإحصــاء
Planning and Statistics Authority
دولــة قطــر • State of Qatar

Regional Workshop on the Changing Role of Official Statistics in the State of Qatar:
Why Data Culture Matters

21st -22nd September 2022, Doha, Qatar
Pullman Hotel, Al Thuraya Ballroom - West Bay

ورشــة العمل الإقليمية حول الـدور المتغير
للإحصاءات الرسـمية في دولة قطر:
ثقافة البيانات مهمة

٢٢-٢١ سبتمبر ٢٠٢٢، الدوحة، قطر
فندق بولمان الدوحة، قاعة الثريا - الخليج الغربي

"Data use, stewardship and ethics". By the end of the session the audience will have a clear understanding of the features that an official statistical system needs for good data stewardship, the presentation will cover legislative and non-legislative solutions, data ethics, and will include case studies of how ONS has used its powers to obtain data. Finally, we will look how statistical law intersects with other information laws and how to resolve any tensions that arise.

Will talk about legal framework
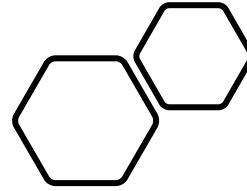
The data journey
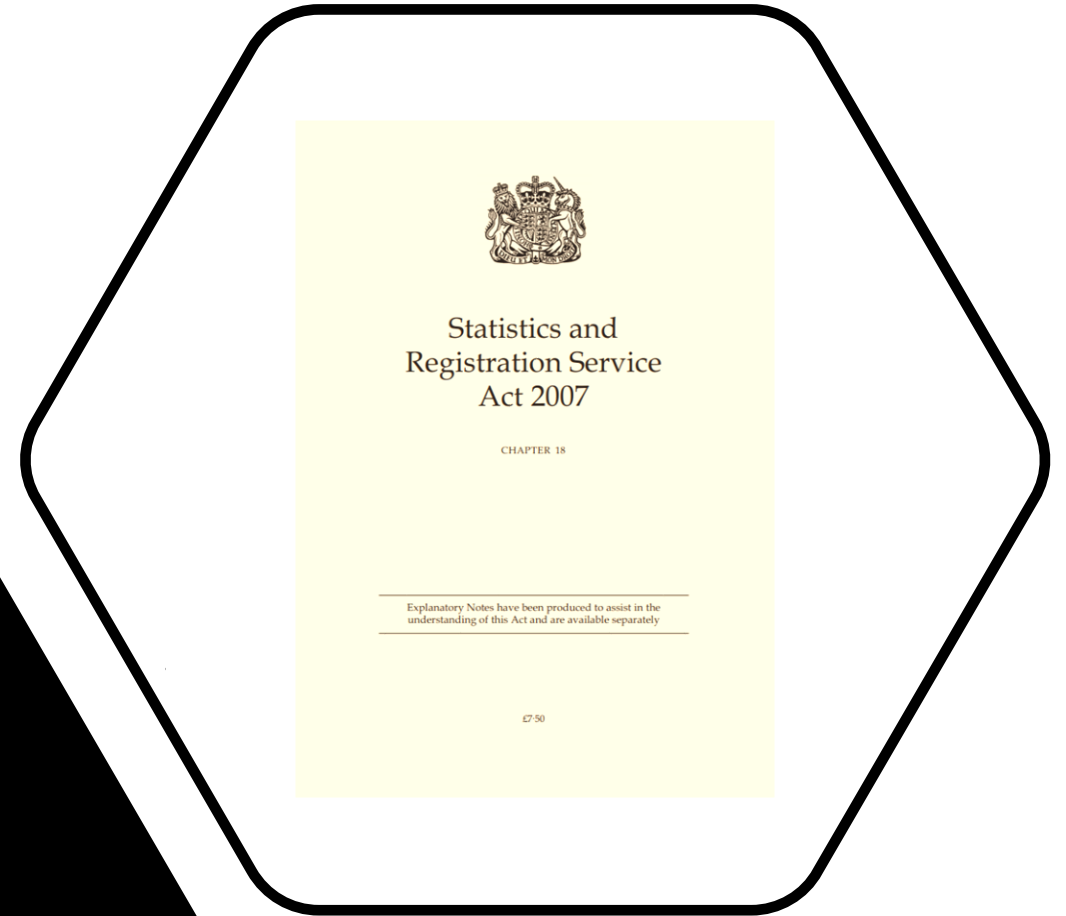
Research Data
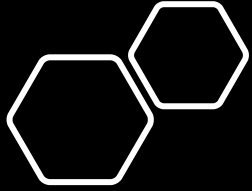
Use of Admin Data

Quality

Ethics

Statistics and Registration Service Act, 2007

- The UK Statistics Authority (and the Office for National Statistics) has the statutory objective to promote and safeguard the production and publication of official statistics to "**serve the public good**"…

- …And to **promote and assist statistical research**, in particular by providing access to data.

Statistics and
Registration Service
Act 2007

CHAPTER 18

Explanatory Notes have been produced to assist in the
understanding of this Act and are available separately

£7·50

Digital Economy Act, 2017

- Gives Public Bodies a clear way to share data, for research, for the first time
  - Comparable with established ONS approach
- UKSA to accredit Researchers, Projects and Processors
  - ONS will be A Data Processor

- Some Public Bodies still need to be assured that data will be kept confidential at all times, and that research will only be permitted when judged to serve the public good
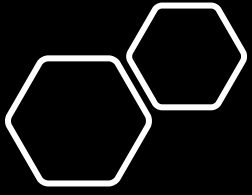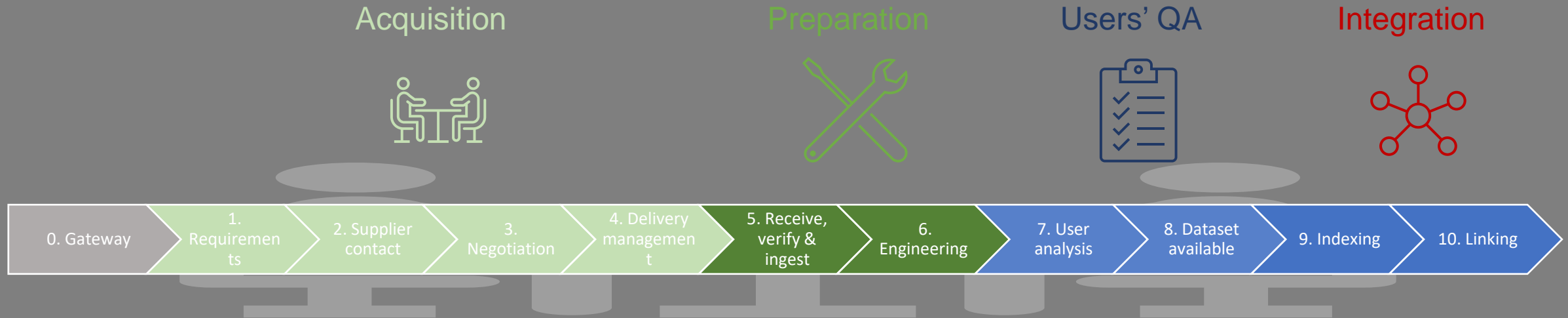
ONS Strategy

- ONS will seek to maximise research use of its microdata holdings, to deliver clear and significant public benefits.

- but...

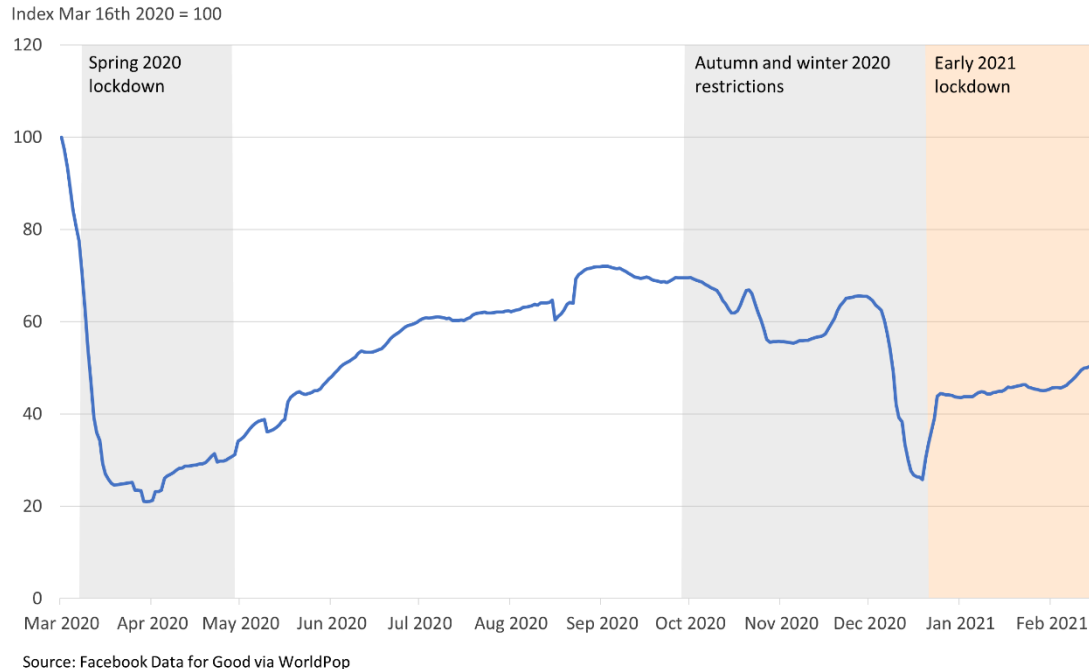- ONS will protect the confidentiality of data-subjects at all times
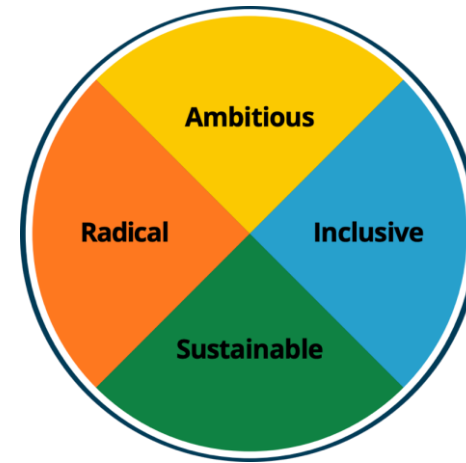
The Data Pipeline

Facebook mobility
relative number of journeys between local authorities, UK

Index Mar 16th 2020 = 100

Source: Facebook Data for Good via WorldPop

Source: Facebook Data for Good via Worldpop
Coronavirus: how people and businesses have adapted to lockdowns, ONS

Facebook and telecoms data aggregated and anonymised
- changes in mobility trends as lockdown restrictions have been introduced and eased
- vulnerable groups, e.g. over 65s
- impact of restrictions on commuting
- how far people are travelling
- how long they spend outside their local area

More info: Using Facebook data to understand changing mobility patterns | Data Science Campus (ons.gov.uk)
Understanding mobility during the COVID-19 pandemic | Data Science Campus (ons.gov.uk)

Office for National Statistics

Using Adzuna data to derive an indicator of weekly vacancies

- [Adzuna](#) is a comprehensive online job search engine that collates information from thousands of different sources in the UK.

- > 100 million job adverts in the time series to date from February 2018.

- Broken down by job category and by region, based on the information included in the job advert.

- Adzuna's neural network assigns suitable categories to the job adverts based on each advert's text.

Total weekly job adverts on Adzuna, UK, 4 January 2019 to 14 August 2020, index 2019 average = 100

— 2019   — 2020
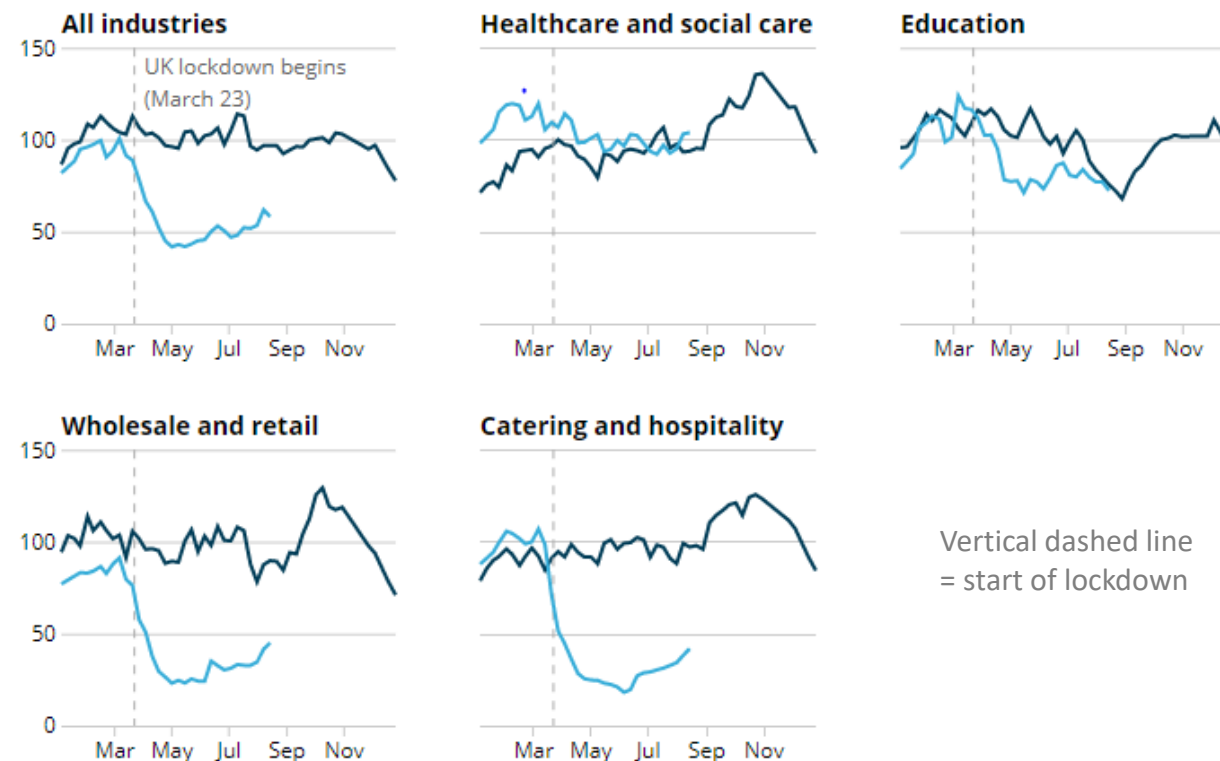
Vertical dashed line = start of lockdown

Research Access :- The 5-Safes Framework

Safe Project

Safe Setting

Safe People

Safe Output

Safe Data

Researcher Journey

Researcher contact the RSDA team

RSDA team provides training

Researcher completes the assessment

RSDA team support the researchers when drafting their project proposal, with advise from experts across the ONS

Project proposal reviewed by DEA Research Accreditation Panel

Safe People

Safe Projects

Safe Setting

Safe Data

Safe Output

Successful applicants become DEA **Accredited Researchers**

Data Owner support for project (and agreement to supply) confirmed

Research serving the public good is published

SRS check outputs to safeguard the confidentiality of data subjects

RSDA team monitor the physical and technical security of the SRS

RSDA team support the researcher throughout his research proposal

Data linked, De-identified and ingested into the SRS
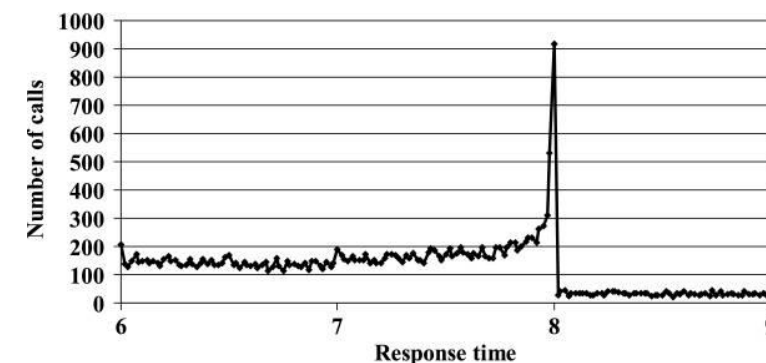
Project approved

Quality

Administrative data in statistics

- An accurate record?

- Quality Assurance of Administrative Data (QAAD)
    - Communication with suppliers
    - Understanding operational context

- *Statistical Challenges of administrative and transaction data* (Hand, 2018, Royal Stat. Soc)

Quality

- Government Data Quality Framework
  - From National Data Strategy
  - New Government Data Quality Hub
    - *Working around* poor quality data
    - Poor quality data → failures in services
    - Better service delivery (& better statistics)
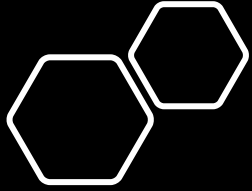
NSDEC

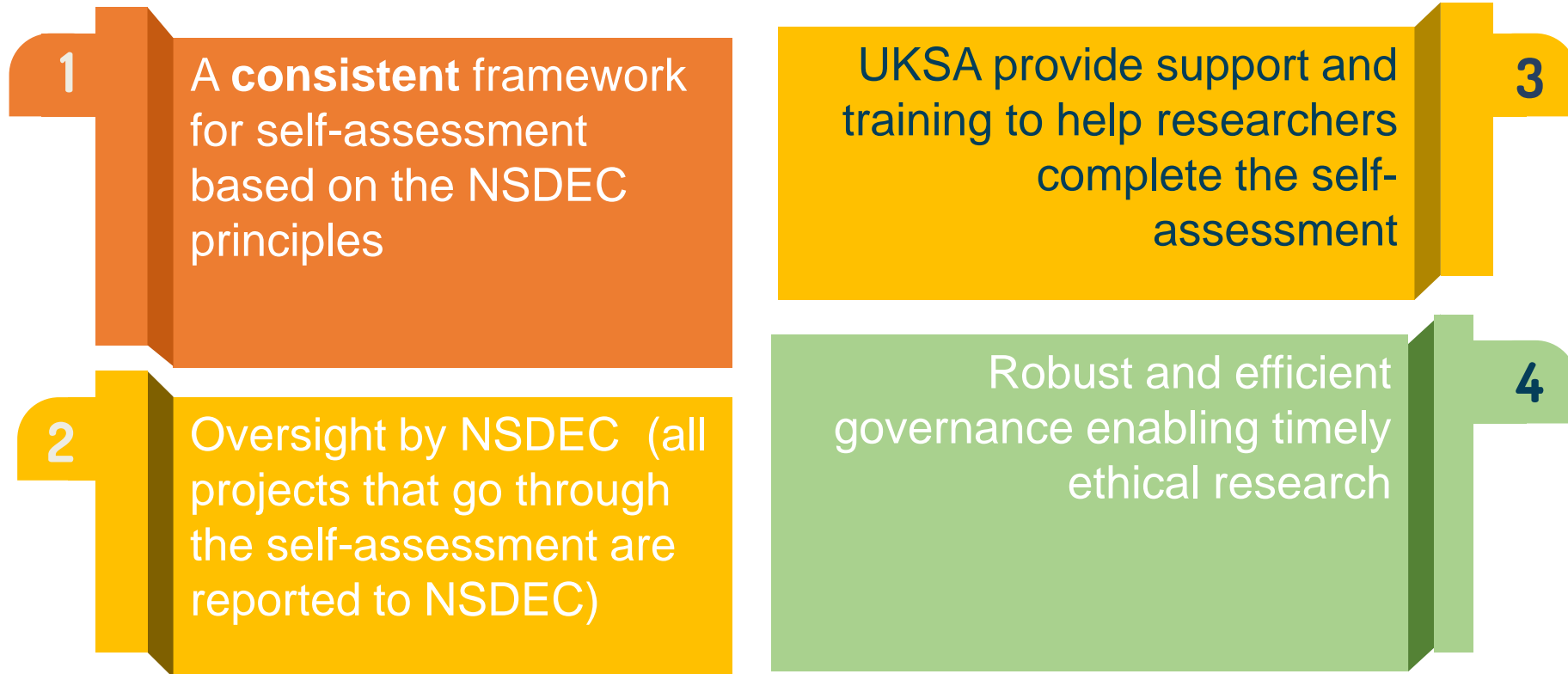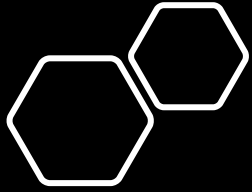- The National Statistician's Data Ethics Advisory Committee (NSDEC) has been established to provide **independent** advice to the National Statistician that the collection, access, use and sharing of data, for research and statistical purposes, is **ethical** and for the **public good**.

- provide ethical consideration of research proposals;

- advise on individual policies and projects against NSDEC's ethical principles; and

- develop a consistent ethical framework for relevant projects related to official statistics

Self-assessment framework

1 A **consistent** framework for self-assessment based on the NSDEC principles

3 UKSA provide support and training to help researchers complete the self-assessment

2 Oversight by NSDEC (all projects that go through the self-assessment are reported to NSDEC)

4 Robust and efficient governance enabling timely ethical research

Questions to Consider and Discuss:

- Is there a clear public good?

- Are there any potential ethical issues?

- Would you make any recommendations?

Public Good	The use of data has clear benefits for users and serves the public good.
Confidentiality, data security	The data subject's identity (whether person or organisation) is protected, information is kept confidential and secure.
Methods and Quality	The risks and limits of new technologies are considered and there is sufficient human oversight so that methods employed are consistent with recognised standards of integrity and quality.
Legal Compliance	Data used and methods employed are consistent with legal requirements such as the DPA, the Human Rights Act, the SRSA and the common law duty of confidence.
Public views & engagement	The views of the public are considered in light of the data used and the perceived benefits of the research.
Transparency	The access, use and sharing of data is transparent, and is communicated clearly and accessibly to the public.

Questions ?

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