

Love Your Code

14 February 2020

Welcome and introduction



Office for
National Statistics



UK Data Service

Actors in the reproducibility landscape

- Data owners
- Official /regulatory bodies
- Data publishers
- Journals
- Researchers and peer community
- Research /educational institutions

Work leading up to this event

UKDS and ONS examining complementary areas

UKDS & ONS:
Data owners'
perspectives

UKDS: Small
reproducibility
pilot



ONS: NSI statistical
system standards
and needs

ONS: Sustainability
and cost of
scalable services

UKDS: Data curation/
publishing requirements

ONS: Regulated
environment

Official /regulatory bodies

- UK Statistics Authority
 - Trustworthiness in data sources underlying national statistics
 - Trustworthiness and transparency in the statistical system and published national statistics
 - Role of the Office for Statistics Regulation
- Government Statistical Service (GSS) Best Practice and Impact / Reproducible Analytical Pipeline
 - Improve government statistics

Policy makers

- Need for strong evidence
- Public confidence in good policy
- Robust policy evaluation tools
- Good measurement of policy and impacts
- Transparency and trust

Data owners

- Making their data reproducible
 - Improved transparency for generating a research-ready 'dataset'
 - High quality documentation
 - Improved provenance chain (creation, cleaning and versioning)

Data publishers

- Making data FAIR (Findable, Accessible, Interoperable Reusable)
- Making data citable – use of persistent identifiers, and versioning
- Data quality and data integrity checkers
- Collating rich description
- Smooth data access, including Safe Haven
- Making reproducibility easier to do

Researchers, peers and HEIs

- Appreciation of research integrity and reproducibility – across all disciplines
- Following rules for being reproducible
- Costing and resourcing: time and effort
- Willingness to learn new skills e.g. good coding
- Encourage capacity building for the researchers of tomorrow

Journals

- Explicit reproducibility requirements
- Recognition and adoption by editorial boards
- Shared gold standard e.g. AEA
- Code checking, where resources/costing model allow

Funders

- Raising the bar for reproducibility for research they fund
- Laying down expectations in calls and contracts
- Support with key messaging on research integrity
- Supporting methodological/ impact work

Today's aim

Bring together all these perspectives

- ✓ Discuss the benefits and challenges for researchers work to be be 'reproducible'
- ✓ Explore the responsibilities of data owners and data infrastructures
- ✓ Help define baseline best practice recommendations/TCB for documenting reproducibility
- ✓ How far Reproducibility Services can go towards demonstrating robustness in research findings?

Social media

#LoveYourCode

@UKDataService

@statisticsONS