



Understanding and Improving Quality in the UK Statistical System

Nikki Shearman, Micola. Shearman@ons.gov.uk

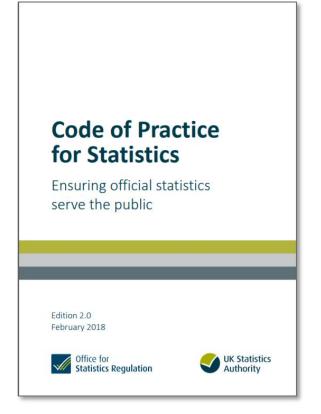
James Tucker, 🖂 james.tucker@ons.gov.uk, ゾ @ONSJames

Departments, Agencies & Bodies





The Code of Practice for Statistics





- Professional standards for statisticians – encouraging transparency, collaboration and coherence
- Provides the foundations for building public confidence
- ✓ Guidance and standards for production of official statistics

The Code of Practice for Statistics

Trustworthiness

- T1 Honesty and integrity
- T2 Independent decision-making and leadership
- T3 Orderly release
- T4 Transparent processes and management
- T5 Professional capability
- T6 Data governance

Quality

Q1 Suitable data sources

Q2 Sound methods

Q3 Assured quality



Value

V1 Relevance to users

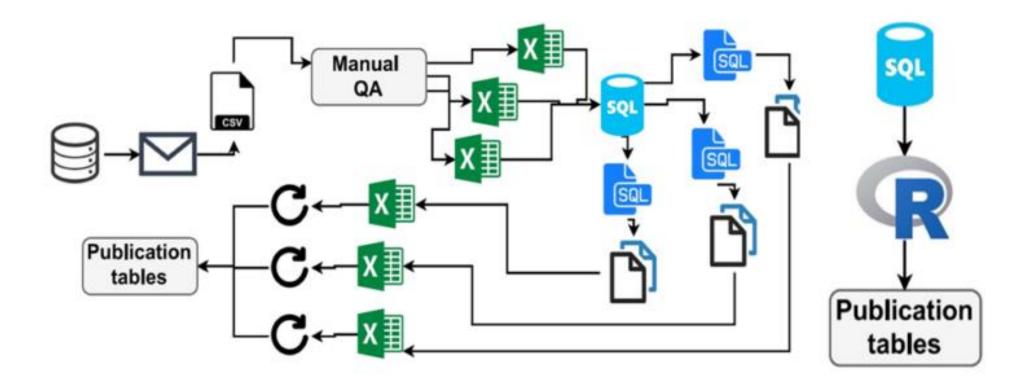
V2 Accessibility

- V3 Clarity and insight
- V4 Innovation and improvement
- V5 Efficiency and proportionality



- We will all understand the importance of our role in producing high quality statistics.
- We will ensure our data is of sufficient quality and communicate the quality implications to users.
- We will implement automated processes to make our analysis reproducible.
- We will anticipate emerging trends and changes and prepare for them using innovative methods

Automated processes- Reproducible Analytical Pipelines



A typical manual statistical workflow, and the equivalent reproducible pipeline

Anticipating emerging trends – A new programme of quality reviews to

✓ look ahead to emerging opportunities and challenges

✓ meet current and emerging user needs, and enable innovation

✓ capitalise on new data sources and technologies

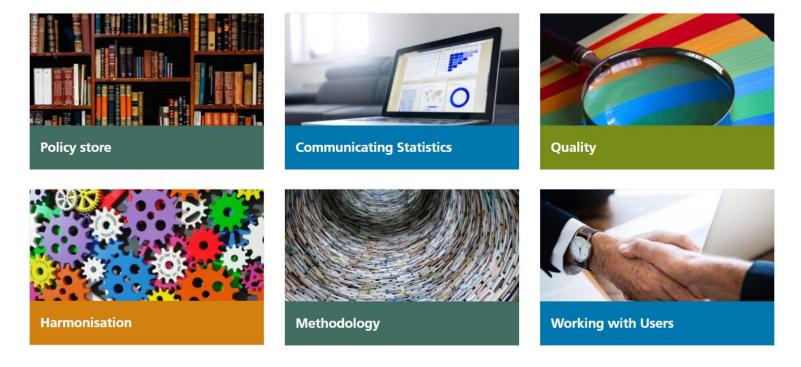
 \checkmark review their statistics within the wider context

✓ draw on the full range of expertise across government and beyond

Tools, standards, guidance and support



The Government Statistical Service (GSS) produces official statistics to support government decision making and promote public debate. Sharing best practice on key processes, such as data collection, analysis and publication, the quality of all GSS statistics is maintained.



https://gss.civilservice.gov.uk/





Thank you

Nikki Shearman, Micola. Shearman@ons.gov.uk

James Tucker 🖂 james.tucker@ons.gov.uk 💟 @ONSJames