

Reproducibility for public good

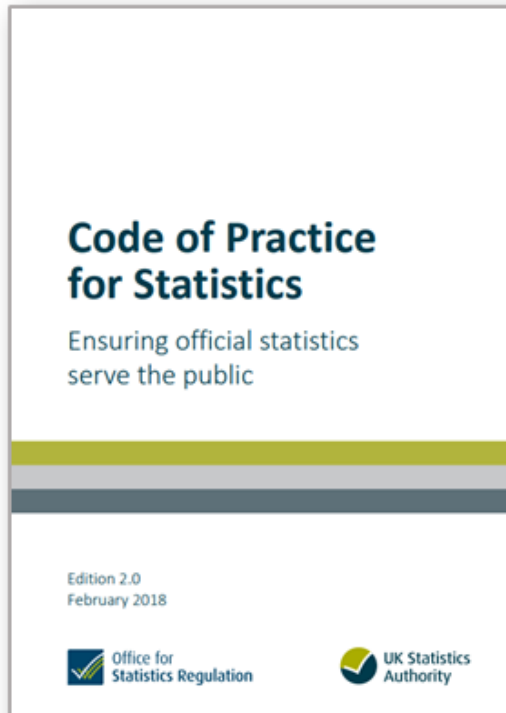
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Love Your Code 14 February 2020

Today's talk

- Our vision for statistics and data
- Why does OSR care about reproducibility?
- How our TQV mantra supports reproducibility

Our mantra



Trustworthiness

Confidence in the people
& organisations producing
statistics

Quality

Data and methods that
produce assured
statistics

Value

Statistics that support
society's needs for
information

Statistics and data should have social lives



**Statistics that serve
the public good**

**OSR's vision:
What we do and why**

November 2019

In a world of abundant data, we want people to have confidence in statistics produced by the public sector

Why research data matters to us

Statistics and data serve the public good when they:

- meet the needs of a **wider range of users**
- **hold governments to account, inform public debate**
- **influence choices** made by citizens

Sharing data for projects that serve the public good is a fundamental part of this

Statistics and data fail to serve the public good when they are...

Unable to answer
society's key questions

Unable to help people
make decisions

Misleading

Not transparent

Inaccurate

Based on inaccessible data

Not detailed enough

Given too much
weight

Lacking innovation

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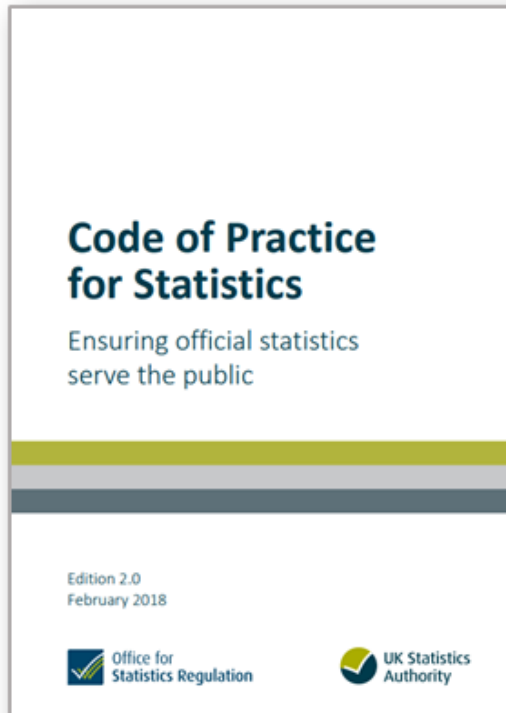
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Applying our mantra to reproducibility

Trustworthiness

Confidence in the people
& organisations
producing statistics



Supports appropriate use of data
- good data governance

Mitigates risk of losing public
confidence if analyses are wrong

Quality

Data and methods that
produce assured
statistics



No such thing as analytical
infallibility

Reproducible processes build
quality into production

Value

Statistics that support
society's needs for
information



Flawed analyses can cause
major harms

