Conference of European Statistics Stakeholders 2018

Empowering and interacting with statistical produsers: a practical example with Eurostat data as a service

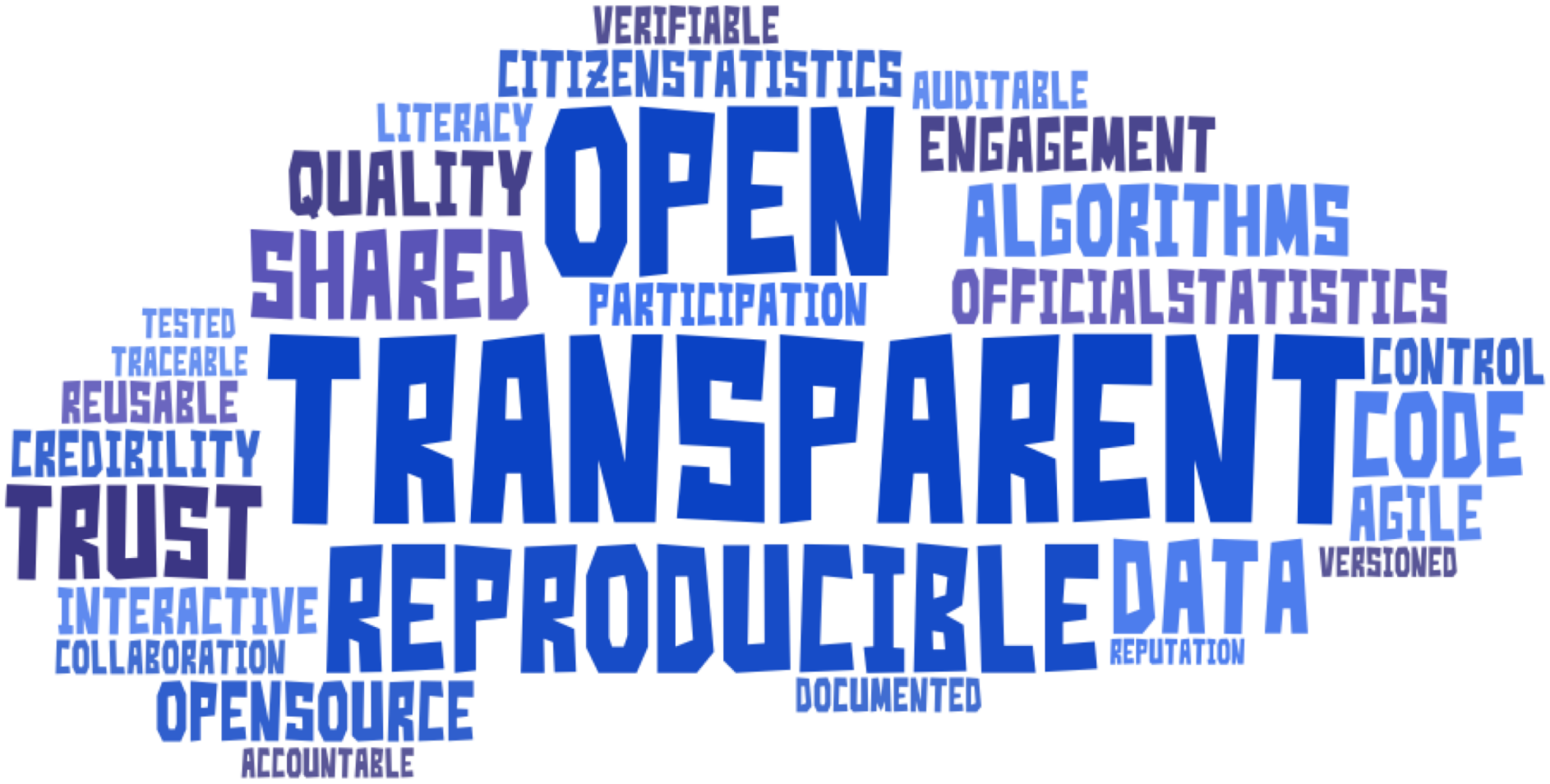
J. Grazzini, J.M. Museux & M. Hahn

Eurostat unit on Methodology and innovation in official statistics

CESS BAMBERG 2018 CONFERENCE OF EUROPEAN STATISTICS STAKEHOLDERS

eurostat

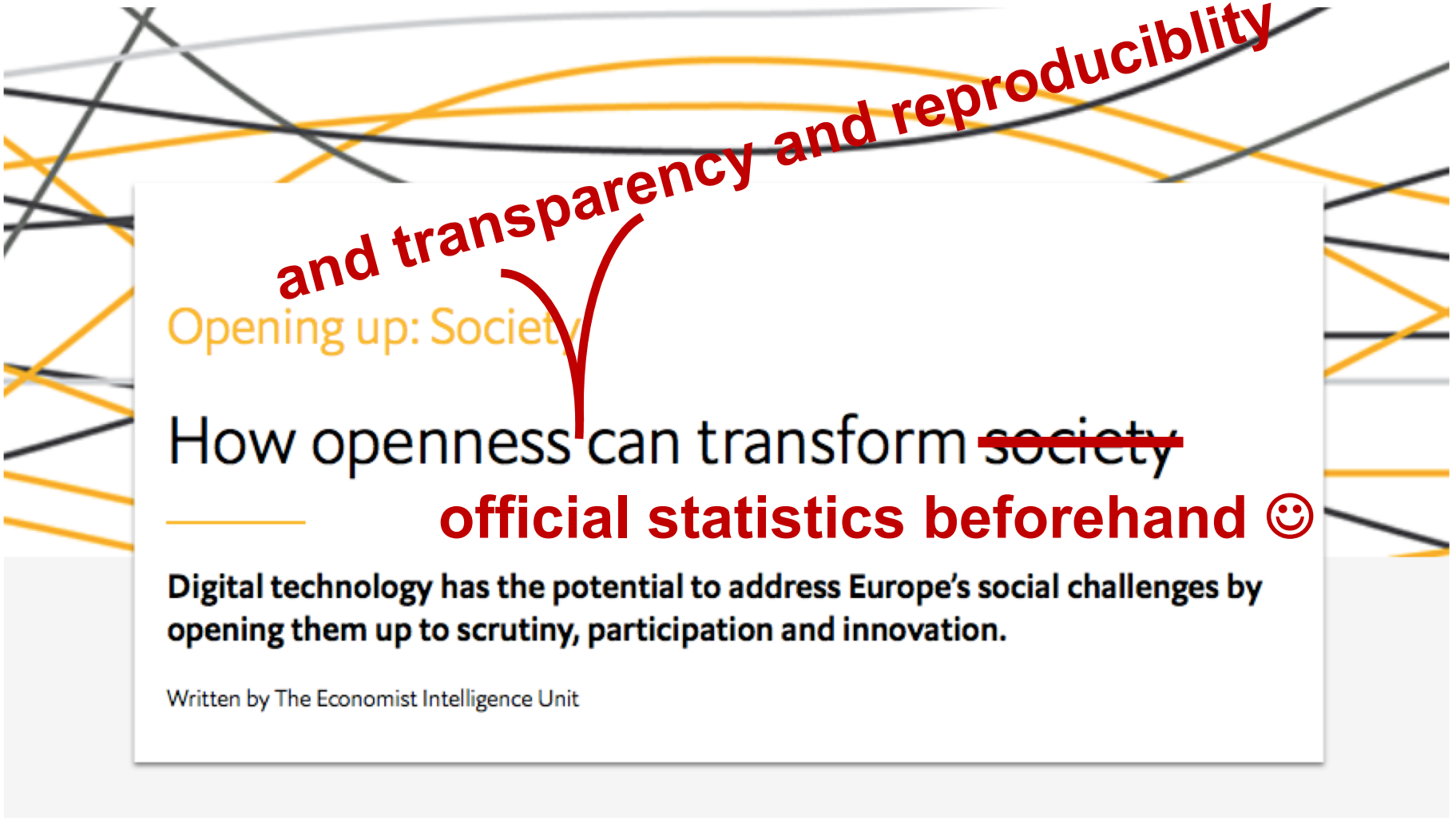
In a nutshell (*aka* wordcloud)



Empowering and interacting with produsers… **Outline**

- ✓ *Bitte schön*
- ✓ *A.1* Was?
- ✓ *A.2* Während?
- ✓ *B.1* Warum wieso warum?
- ✓ *B.2* Wie?
- ✓ *C.1* Wer?
- ✓ *C.2* Dann?
- ✓ *Danke schön*

Was is “empowering and interacting” about?



Während a time of paradigm change and…

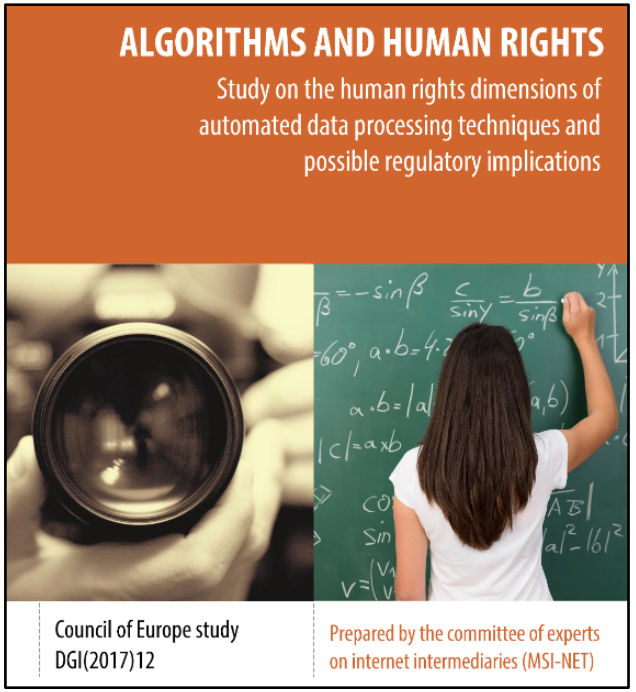
BUCHAREST MEMORANDUM

on Official Statistics in a Datafied Society (Trusted Smart Statistics)

104th DGINS Conference, Bucharest, 10th and 11th October 2018

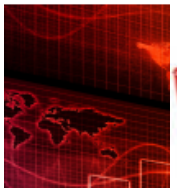
As adopted by the European Statistical System Committee (ESSC) meeting on the 12th October 2018

Statistical Session: "The European path towards Trusted Smart Statistics"



Während a time of m/distrust

Communication of statistics in post-truth society: the good, the bad and the ugly



THE WORLD BANK
IBRD • IDA
Working for a World Free of Poverty

ABOUT DATA RESEARCH LEARNING NEWS PROJECTS & (

TheDATABlog

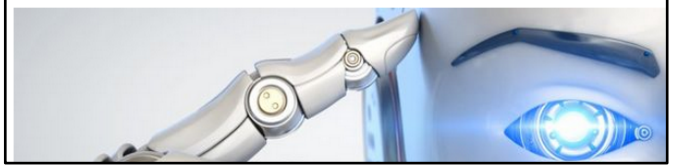
Bloggers Tags Contact

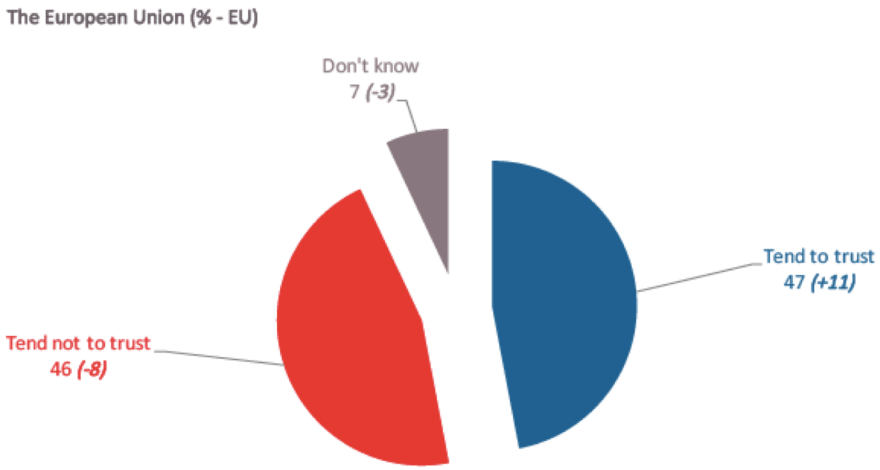
Official Statistics in a Post-Truth World

Can we trust AI if we don't know how it works?

By Marianne Lehnis
Technology of Business reporter

15 June 2018





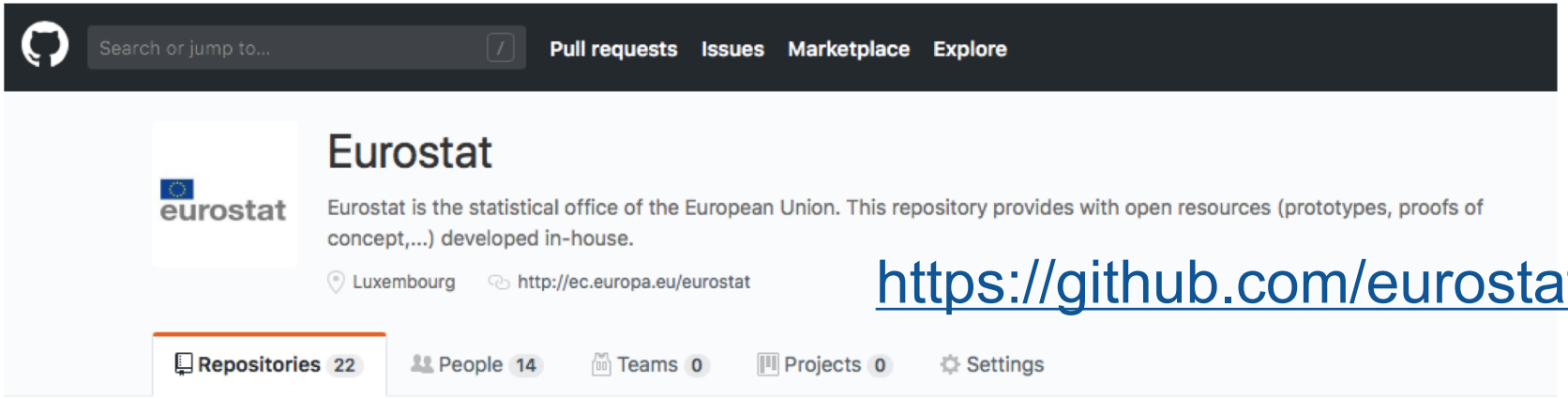
CESS BAMBERG 2018
CONFERENCE OF EUROPEAN STATISTICS STAKEHOLDERS

eurostat

Warum wieso warum “empowering and interacting”?

Warum nicht?

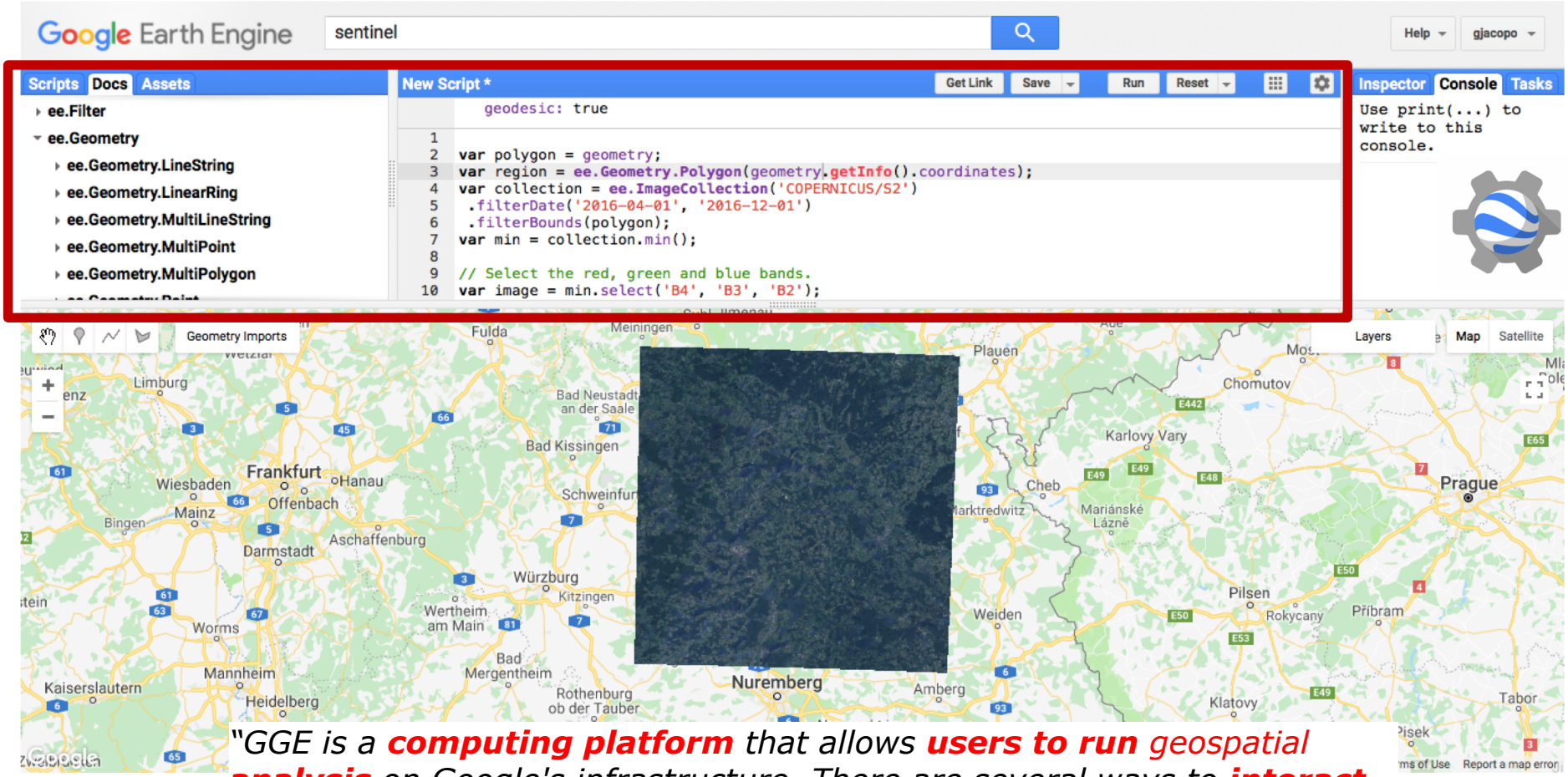
Pause Zzzzzzzzzzzzzzzz



https://github.com/eurostat/

https://github.com/eurostat/**happyGISCO**

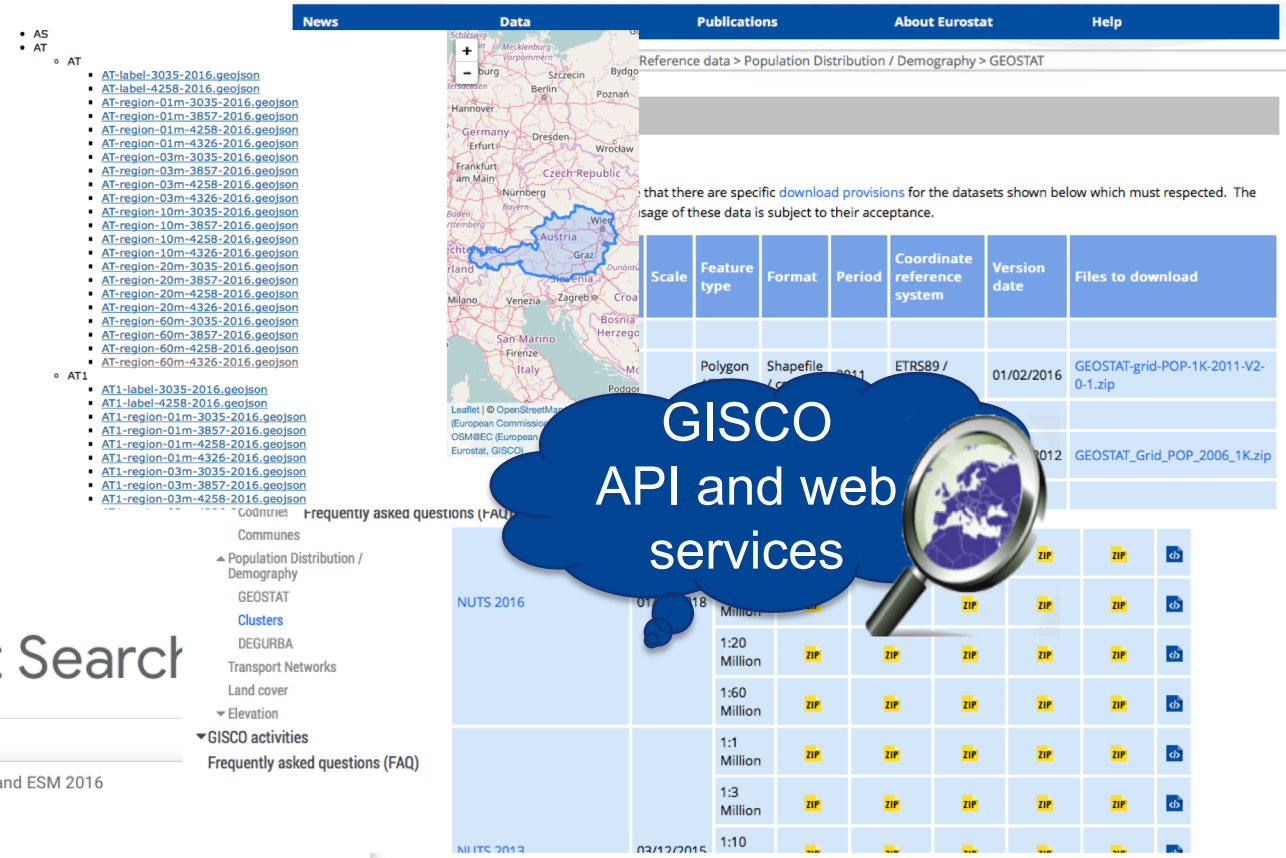
Wie can we “empower and interact”: **the good,…**



*“GGE is a **computing platform** that allows **users to run** geospatial **analysis** on Google's infrastructure. There are several ways to **interact with the platform**. The Code Editor is a web-based IDE for **writing and running scripts**. The Explorer is a lightweight web app for **exploring our data catalog and running simple analyses**.”*

Wie can we “empower and interact”: **the bad,…**

Wie can we “empower and interact”: **and the ugly**

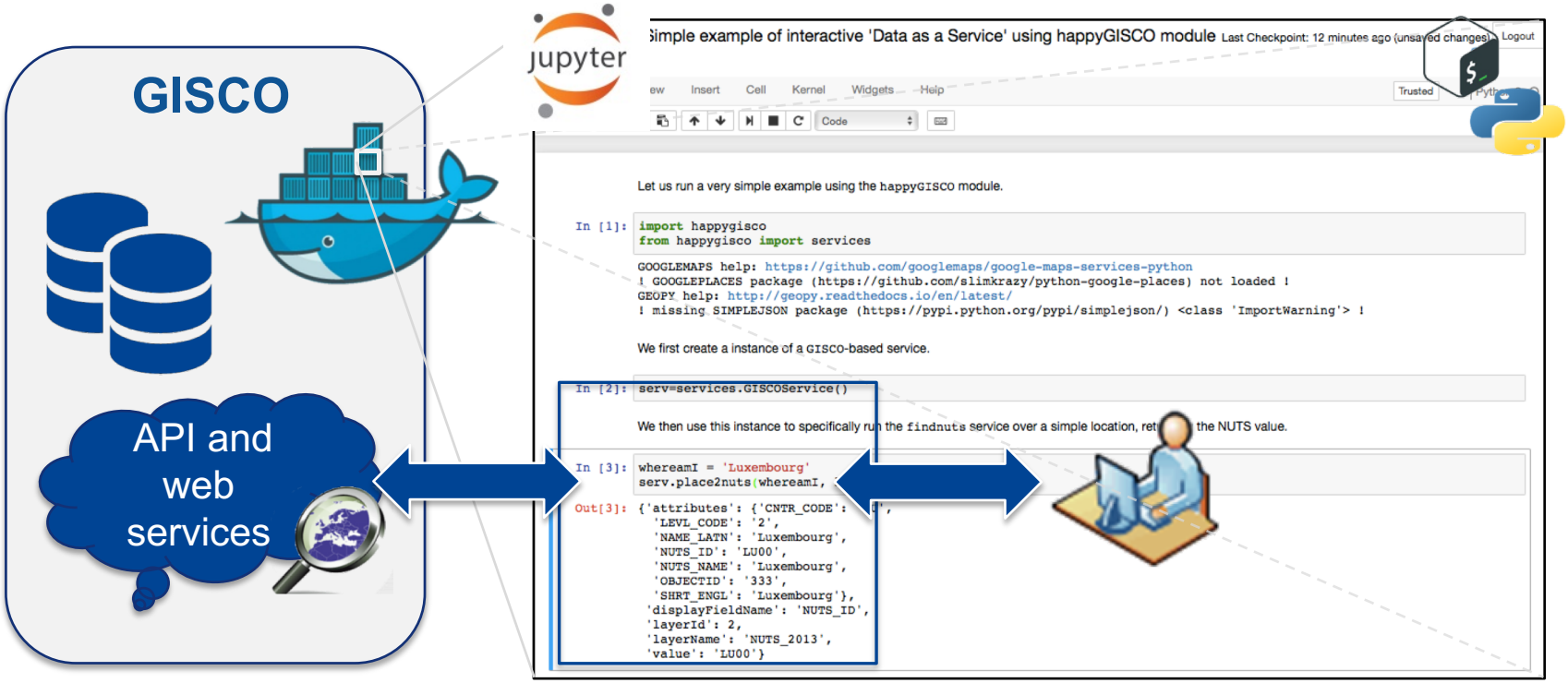


open data is not enough!

CESS BAMBERG 2018
CONFERENCE OF EUROPEAN STATISTICS STAKEHOLDERS

eurostat

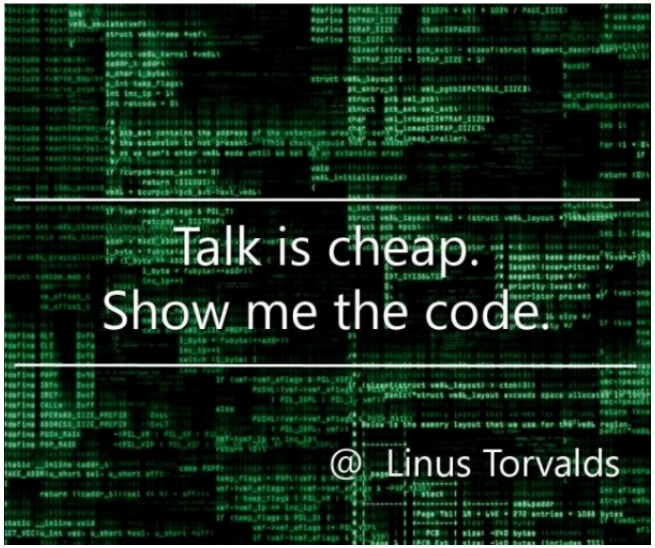
Wie can we “empower and interact”: **towards the good**



- ✓ ***Data-centric:*** Built on top of Eurostat GISCO flexible **APIs and web-services**.
- ✓ ***Agile:*** Distributed through platform independent **virtualised containers**.
- ✓ ***User-driven:*** Provide versatile **interactive computing notebooks**.

Wer is targeted? @producers

"What if we don't change at all ...
and something magical just happens?"

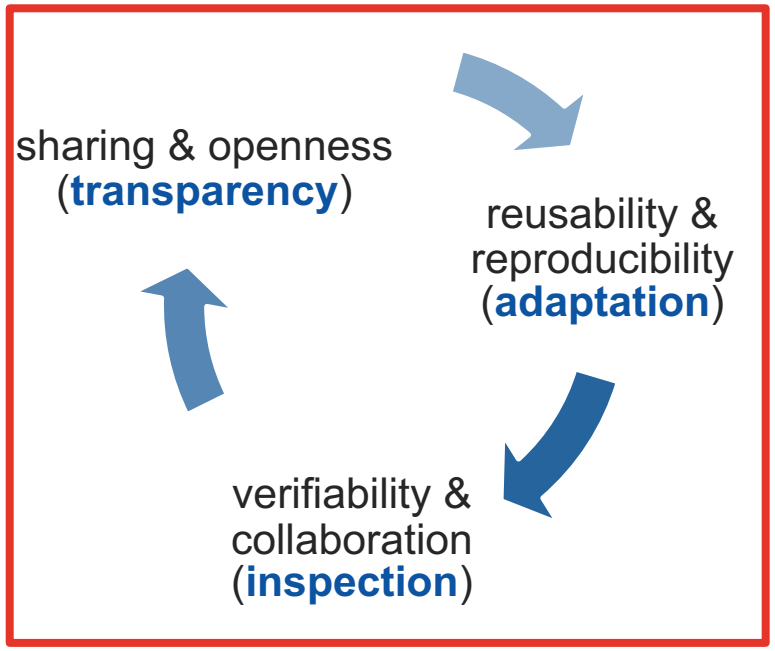


Ensure maintenance & quality, increase trust & credibility, improve collaboration and shared control, engage actively, promote statistical literacy.

CESS BAMBERG 2018
CONFERENCE OF EUROPEAN STATISTICS STAKEHOLDERS

eurostat

Wer is targeted? @policymakers

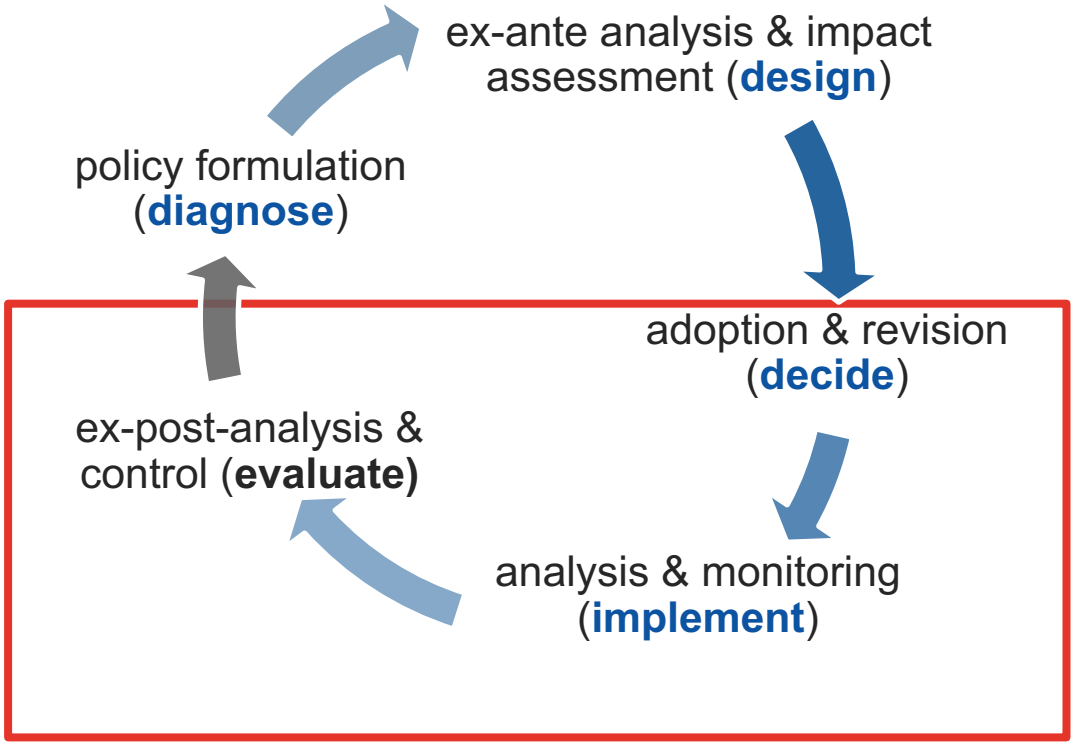


agile development

vs.

policymaking cycle

Provide the public with insights into the workings of decision-making systems to "judge for himself".



Wer is targeted? @researchers

What the Reinhart & Rogoff Debacle Really Shows: Verifying Empirical Results Needs to be Routine

Published on April 19, 2013 in Uncategorized. 3 Comments

There's been an enormous amount of buzz sin
questioning the methodology in a published pap

OPEN ACCESS

ESSAY

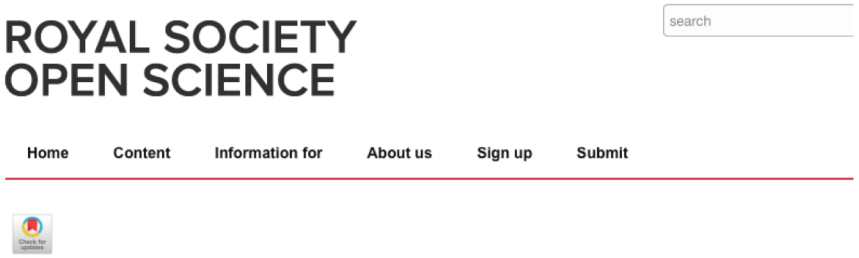
Why Most Published Research Findings Are False

John P. A. Ioannidis

NATURE | EDITORIAL

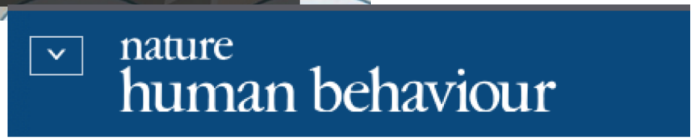
Journals unite for reproducibility

Consensus on reporting principles aims to improve quality control i research and encourage public trust in science.



Data availability, reusability, and analytic reproducibility: evaluating the impact of a mandatory open data policy at journal *Cognition*

Tom E. Hardwicke, Maya B. Mathur, Kyle MacDonald, Gustav Nilsonne, George C. Bai



Perspective | OPEN | Published: 10 January 2017

A manifesto for reproducible science

Marcus R. Munafò, Brian A. Nosek, Dorothy V. M. Bishop, Katherine S. Button,

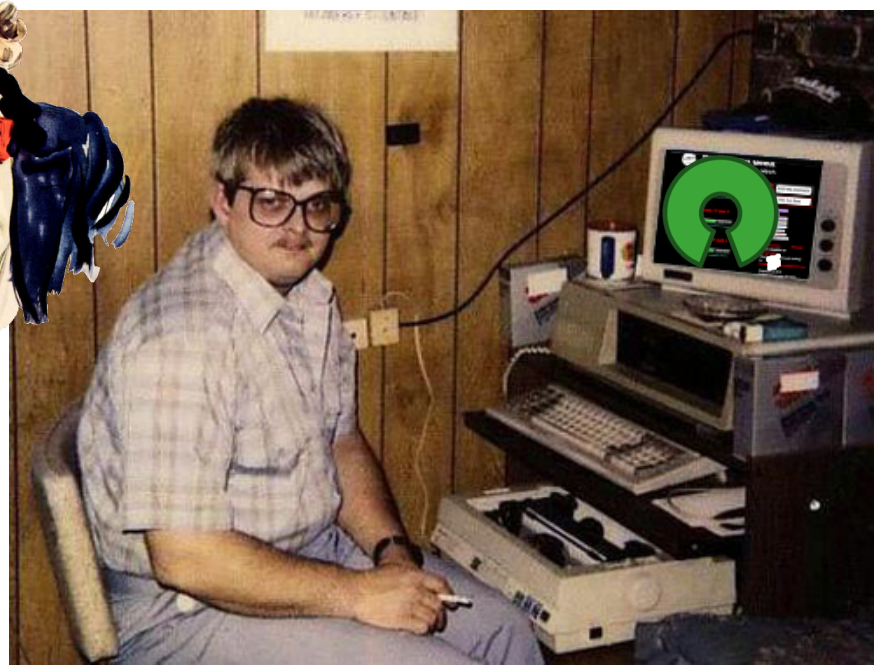
Address the reproducibility crisis.

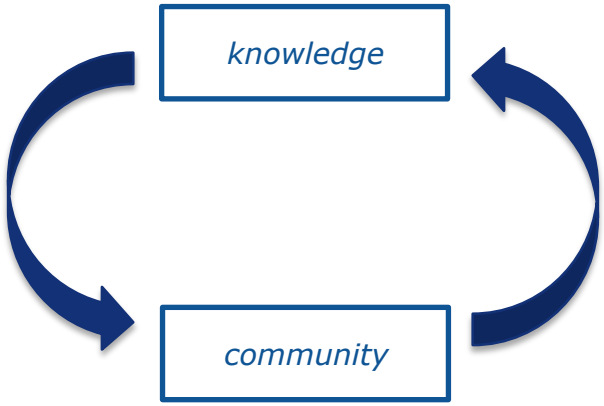
CESS BAMBERG 2018
CONFERENCE OF EUROPEAN STATISTICS STAKEHOLDERS

eurostat

Wer is targeted? @users

#OpenData + #Hackathon ≠ #OpenGovernment





Provide incentives for users to share back their analysis for the benefit of the community.

Dann is some mnemonic!

Participation

Reproducibility

Openness

Sharing

Transparency

Accountability

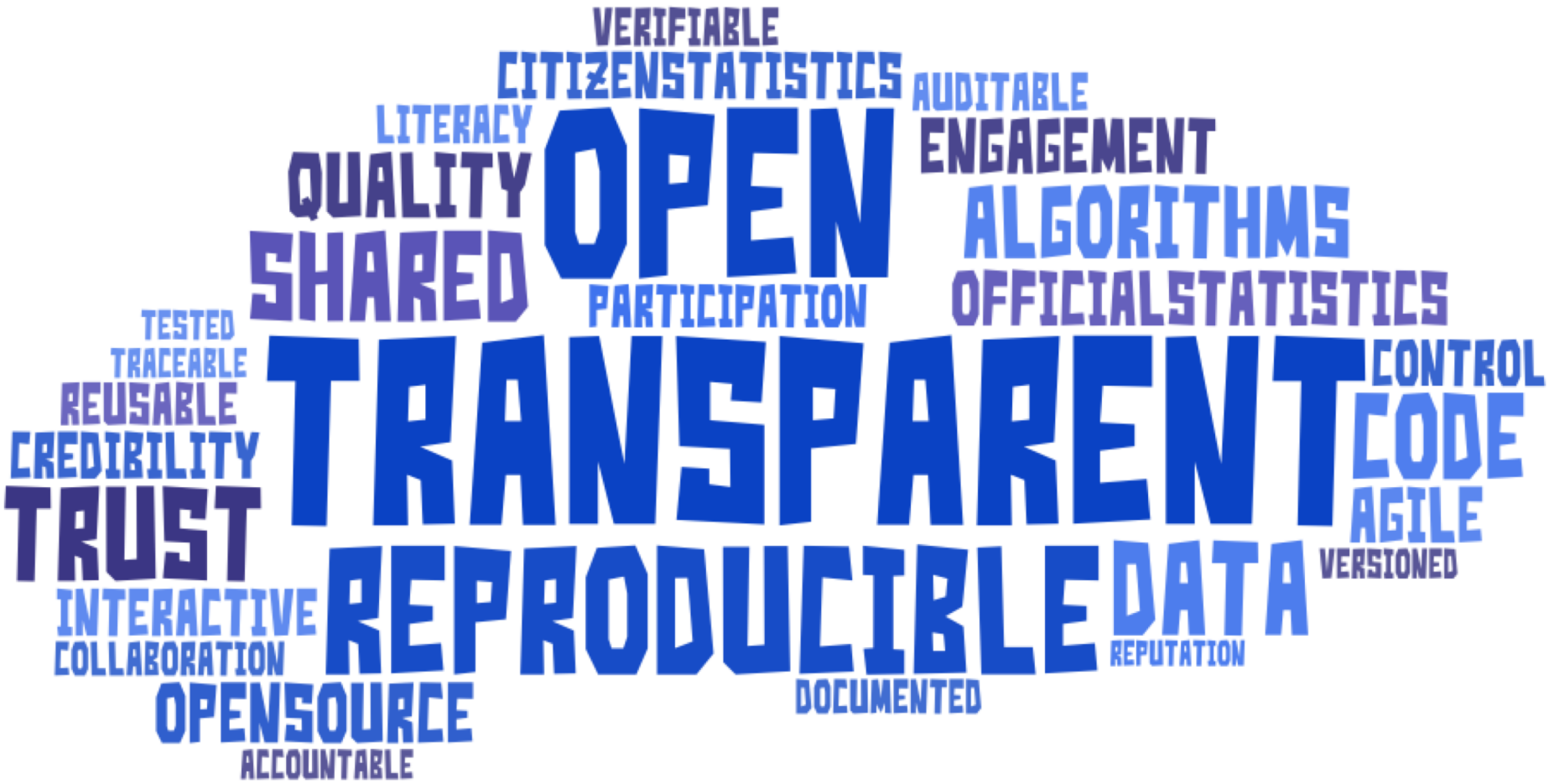
Trust

3ngagement

“Modern” tools for producers and produsers of Official Statistics.

“Sound” principles for producers and produsers of Official Statistics.

Q's?



http://nbviewer.jupyter.org/github/eurostat/happyGISCO/blob/master/notebooks/bamberg.ipynb

CESS BAMBERG 2018
CONFERENCE OF EUROPEAN STATISTICS STAKEHOLDERS

eurostat