Welche Fakten braucht die Gesellschaft?

Basel

14. November 2019

Walter J. Radermacher

Research@ Innovation

The strategy towards 2030

Walter J. Radermacher

Mariana Mazzucato

https://marianamazzucato.com/

https://op.europa.eu/en/publication-detail/-/publication/5b2811d1-16be-11e8-9253-01aa75ed71a1/language-en

Global Agenda

World Economic Forum Annual Meeting 2019

Overview

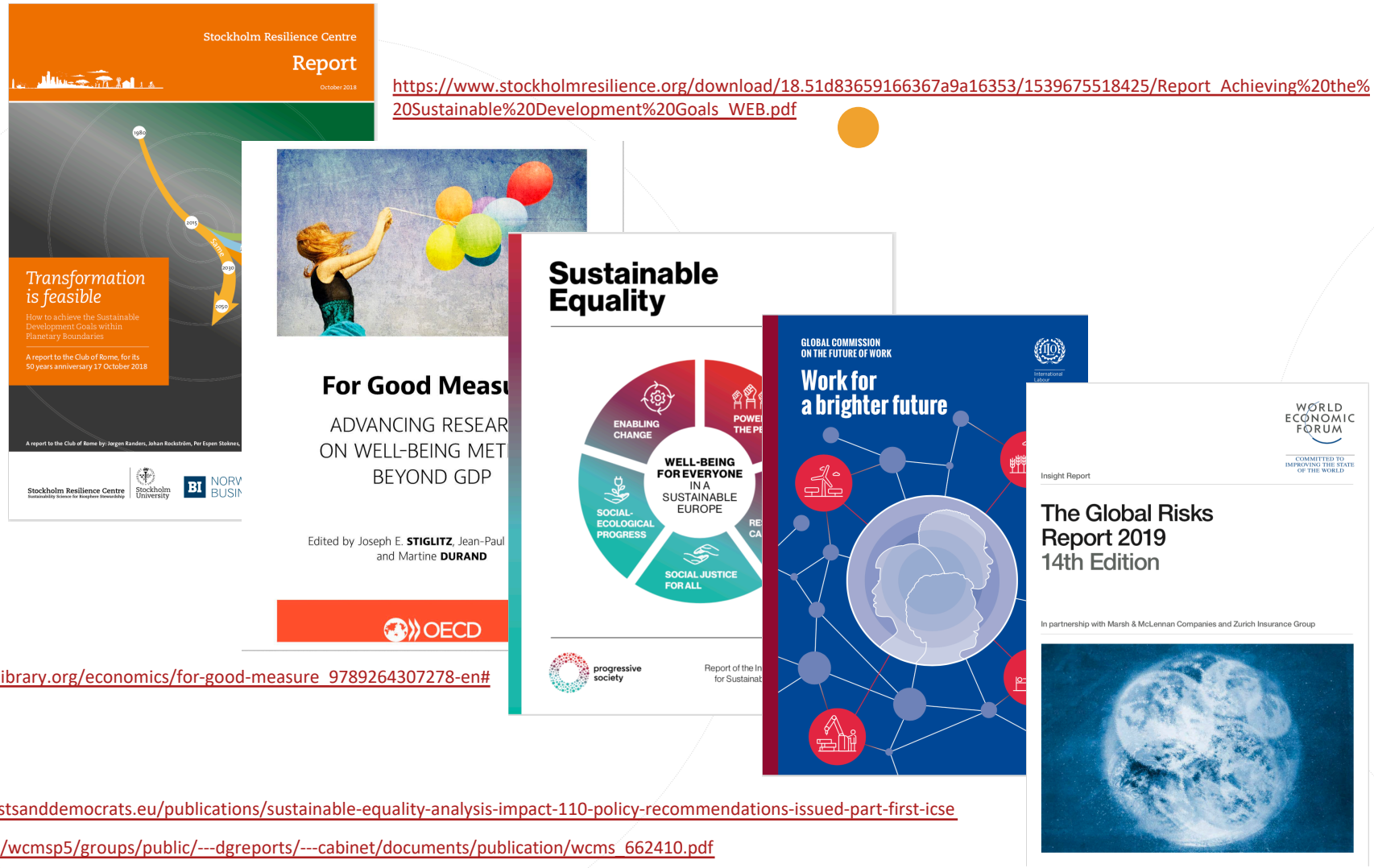
Davos-Klosters, Switzerland 22-25 January

WORLD ECONOMIC FORUM

COMMITTED TO IMPROVING THE STATE OF THE WORLD

Globalization 4.0: Shaping a Global Architecture in the Age of the Fourth Industrial Revolution

http://www3.weforum.org/docs/WEF_AM19_Meeting_Overview.pdf



https://www.stockholmresilience.org/download/18.51d83659166367a9a16353/1539675518425/Report_Achieving%20the%20Sustainable%20Development%20Goals_WEB.pdf

https://read.oecd-ilibrary.org/economics/for-good-measure_9789264307278-en#

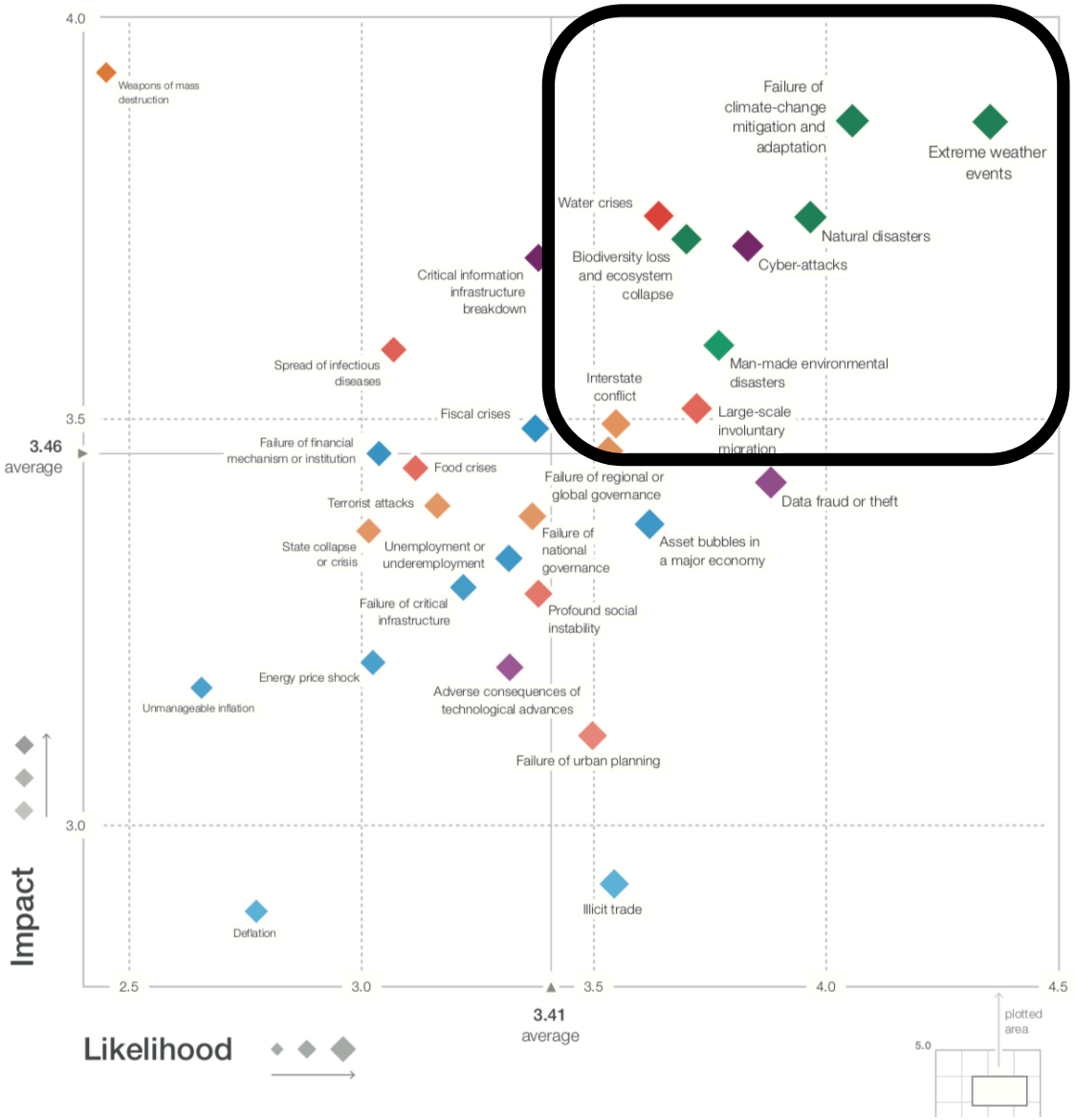
https://www.socialistsanddemocrats.eu/publications/sustainable-equality-analysis-impact-110-policy-recommendations-issued-part-first-icse

https://www.ilo.org/wcmsp5/groups/public/---dgreports/---cabinet/documents/publication/wcms_662410.pdf

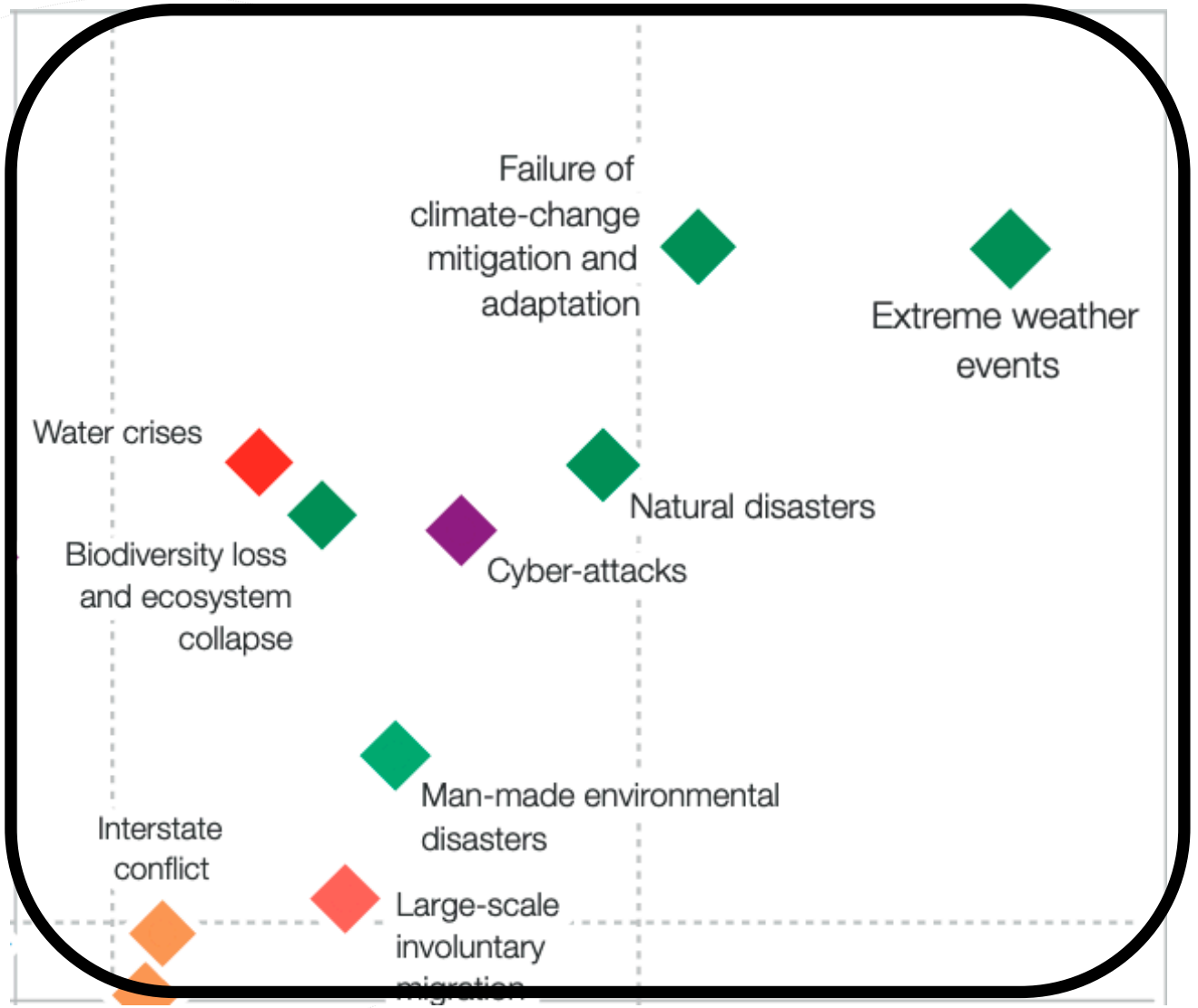
http://www3.weforum.org/docs/WEF_Global_Risks_Report_2019.pdf

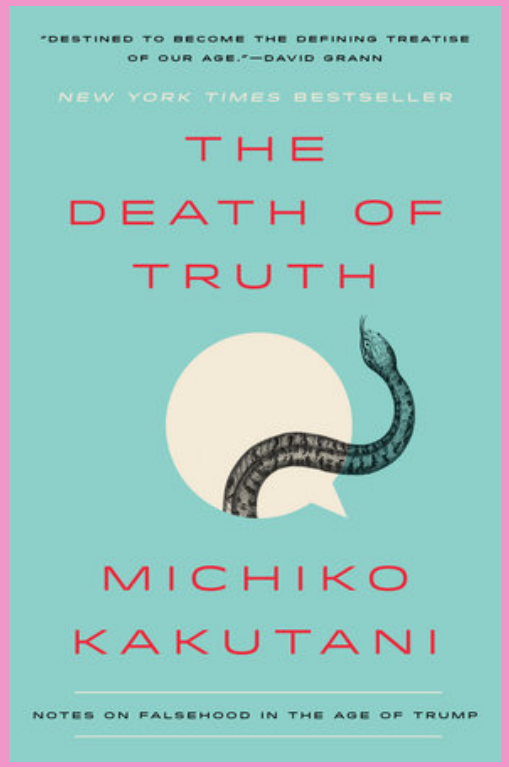
http://www3.weforum.org/docs/WEF_Global_Risks_Report_2019.pdf

Figure I: The Global Risks Landscape 2019



http://www3.weforum.org/docs/WEF_Global_Risks_Report_2019.pdf





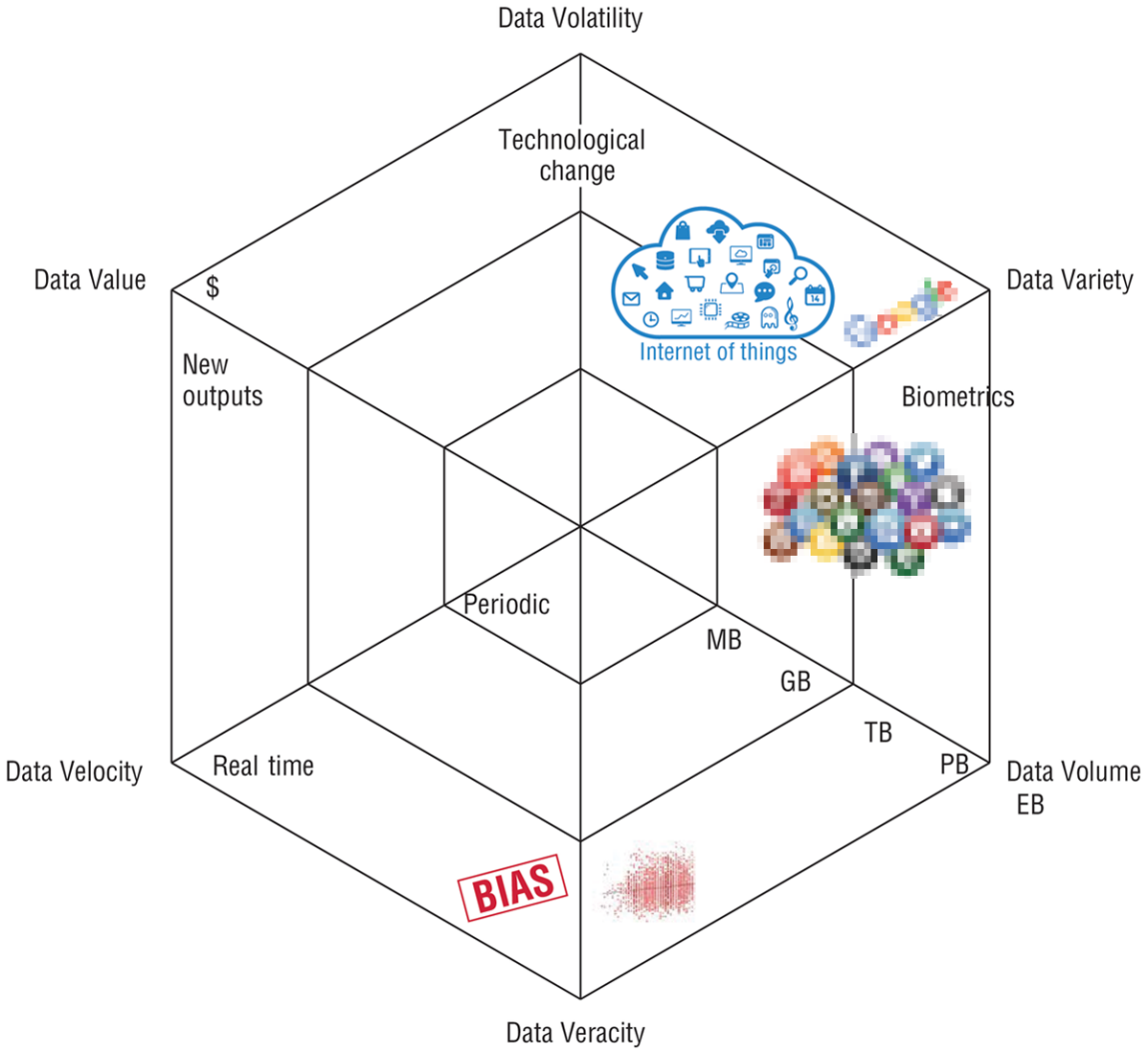
3

Data Goldrush & Death of Truth

The Era of Digitisation and Globalisation

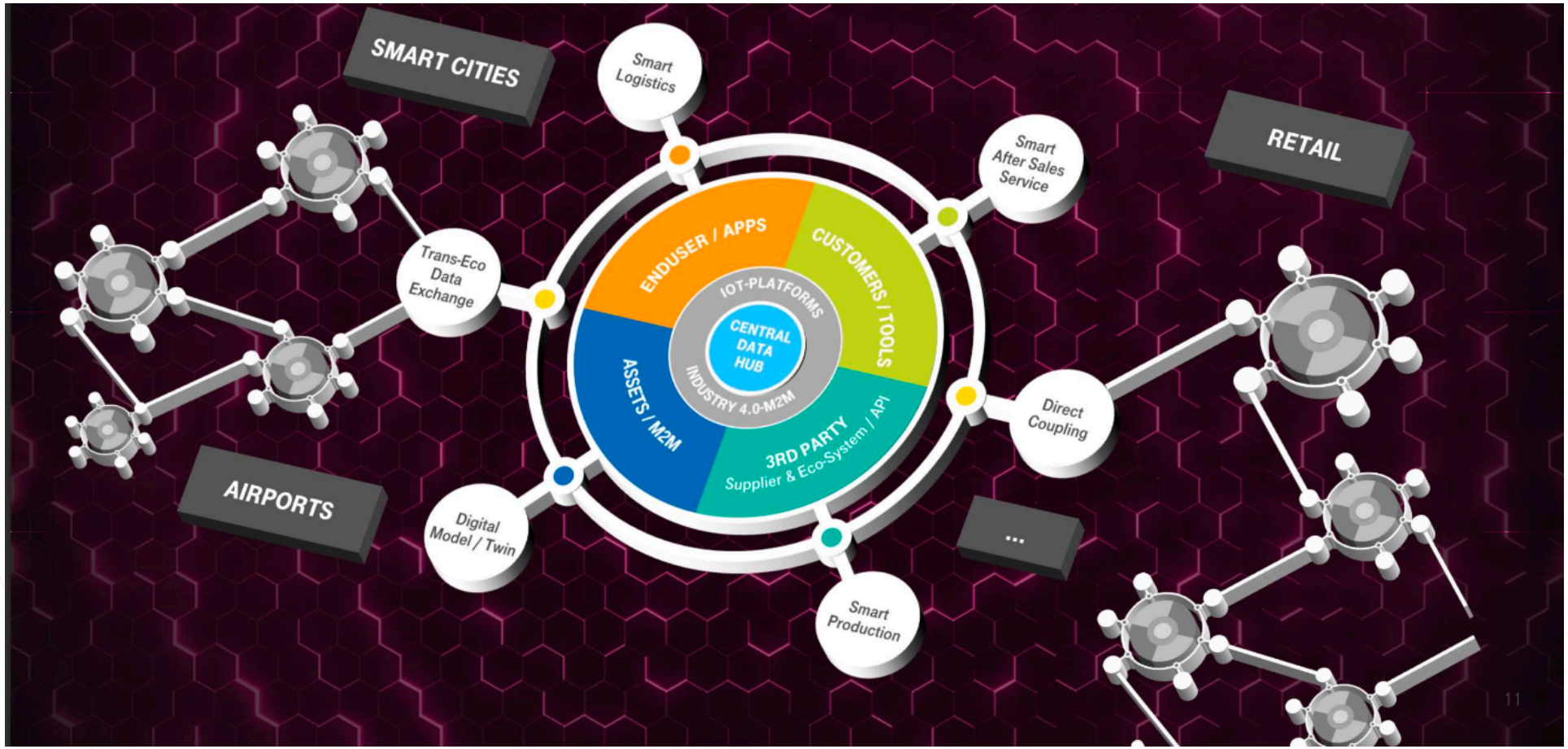
Walter J. Radermacher

The 6V's of big data for official statistics



MacFeely, Steve. 2018. 'Big Data and Official Statistics.' in Sheryl Kruger Strydom and Moses Strydom (eds.), *Big Data Governance and Perspectives in Knowledge Management* (IGI Global: Hershey, PA).

Internet of Things IoT



https://www.destatis.de/DE/Ueber-uns/Kolloquien-Tagungen/Kolloquien/2018/05_Borchers_Praesentation.pdf?__blob=publicationFile

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The world we live in

Data revolution: *"What steam was to the 19th century, and oil has been to the 20th, data is to the 21st"* (https://rss.org.uk/RSS/media/File-library/Policy/2019/9522-RSS-Data-Manifesto.pdf)

Data Society towards an IoT Society

Evidence based decision making: *"If you can't measure it, you can't manage it"* (https://blog.deming.org/2015/08/myth-if-you-cant-measure-it-you-cant-manage-it/)

Audit Society towards an AI Society

Post-truth-politics: *"The 5% Unemployment Figure Is One Of The Biggest Hoaxes In Modern Politics"* (https://www.youtube.com/watch?v=QMmk3oQ0QiI)

Twitter Society

Globalisation of economies and crises: *"Planet at risk of heading towards 'Hothouse Earth' state"* (http://www.stockholmresilience.org/research/research-news/2018-08-06-planet-at-risk-of-heading-towards-hothouse-earth-state.html)

Global Risk Society

Data4Policy

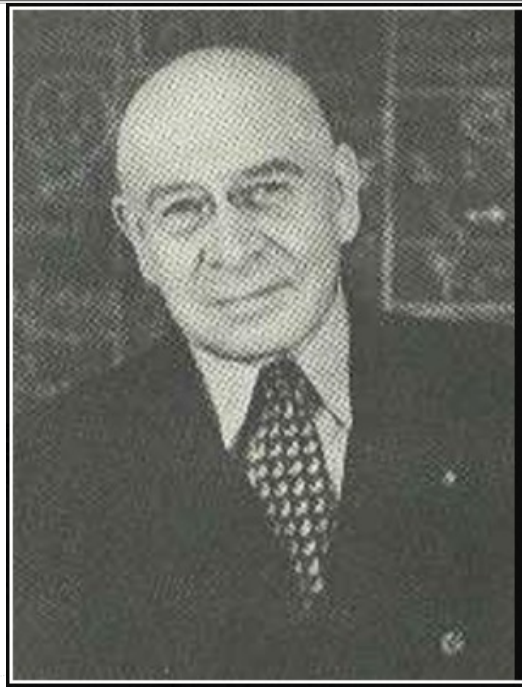
Data are given - Facts are produced

Walter J. Radermacher

The best material model of a cat is another, or preferably the same, cat.

— Norbert Wiener —

AZ QUOTES



The map is not the territory, the word is not the thing it describes. Whenever the map is confused with the territory, a 'semantic disturbance' is set up in the organism. The disturbance continues until the limitation of the map is recognized.

— Alfred Korzybski —

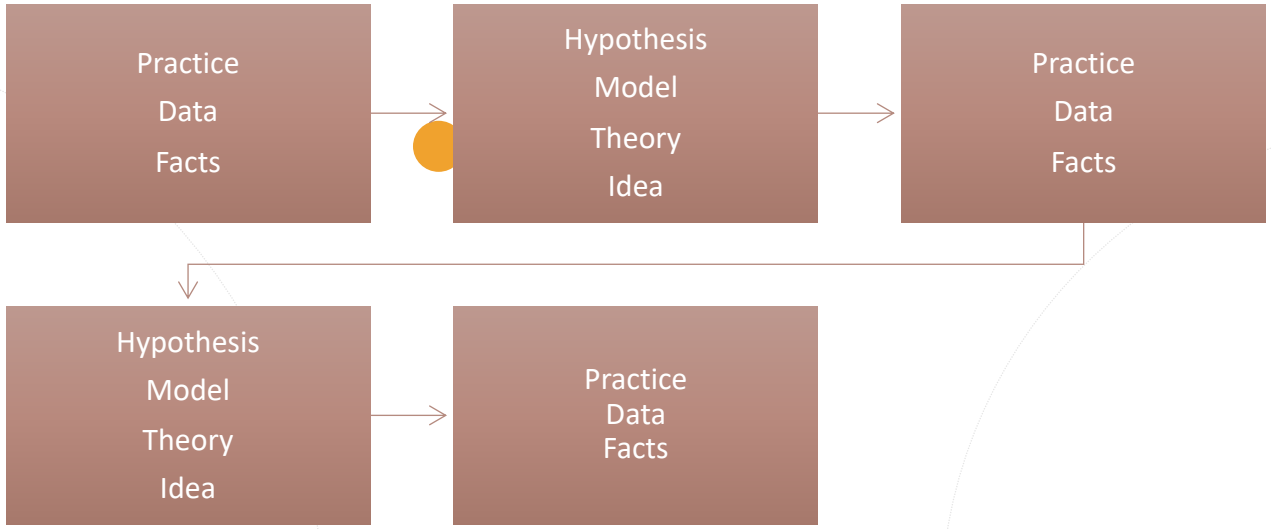
AZ QUOTES

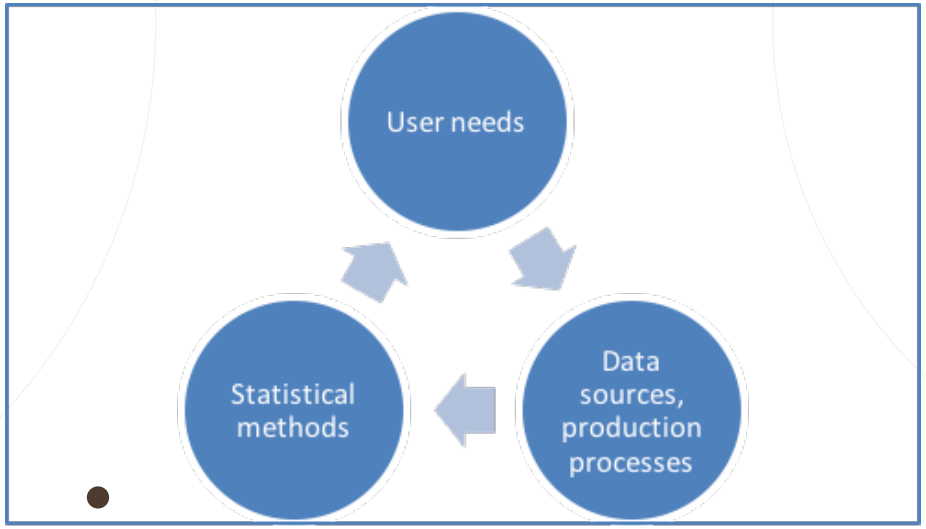
How do we know what we know?

Epistemological position	Perspective
Naïve realism	Reality is an objective phenomenon that exists and can be measured independently of social and cultural processes.
Critical realism	Reality is an objective phenomenon, the measurement of which is mediated through social and cultural processes and can never be known in isolation from these processes
Relativism	Nothing is a reality in itself – what we understand to be a 'reality' is the product of historically, socially and culturally contingent 'ways of seeing'

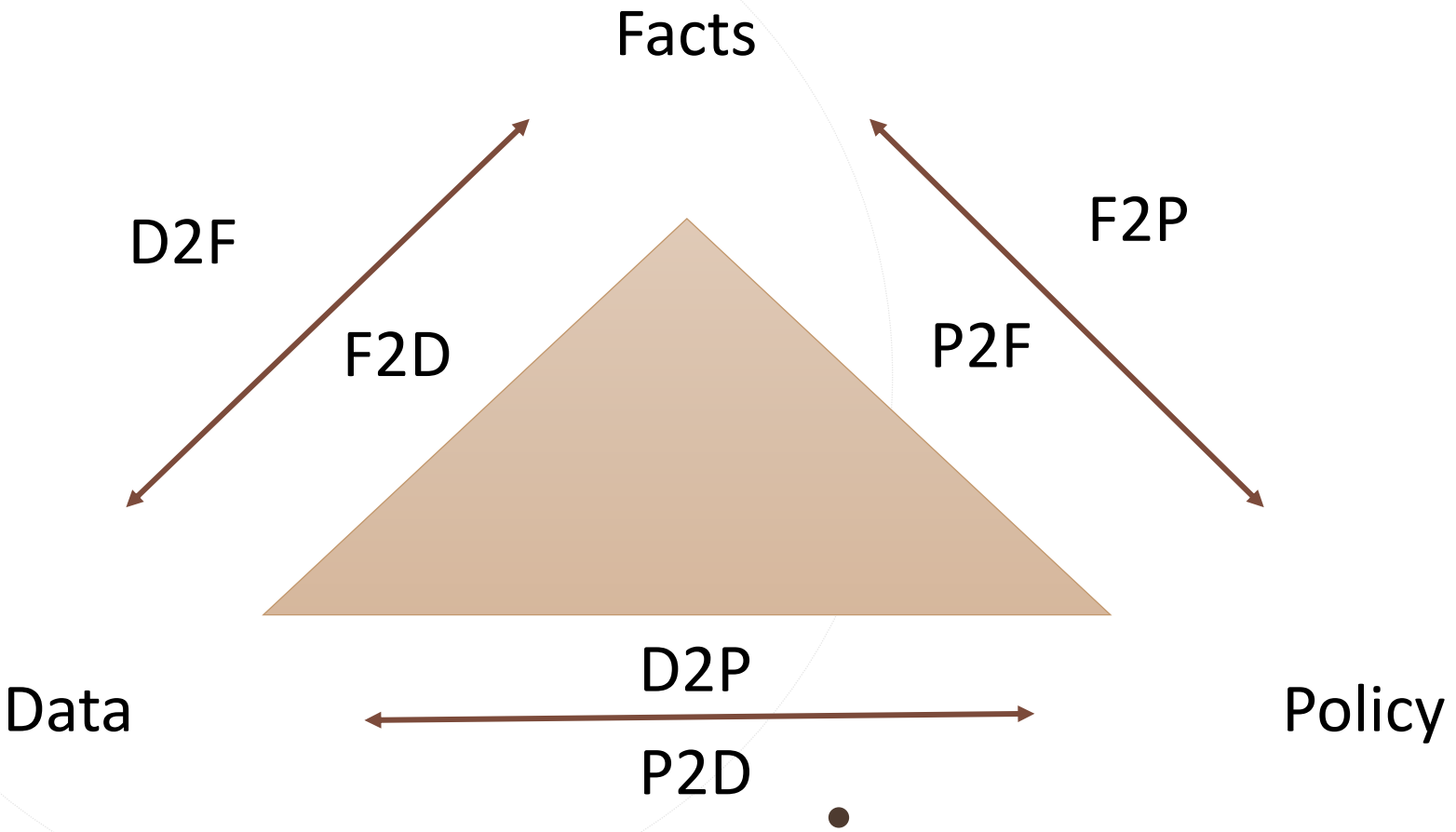
3 W

Statistical learning & iteration btw deduction and induction



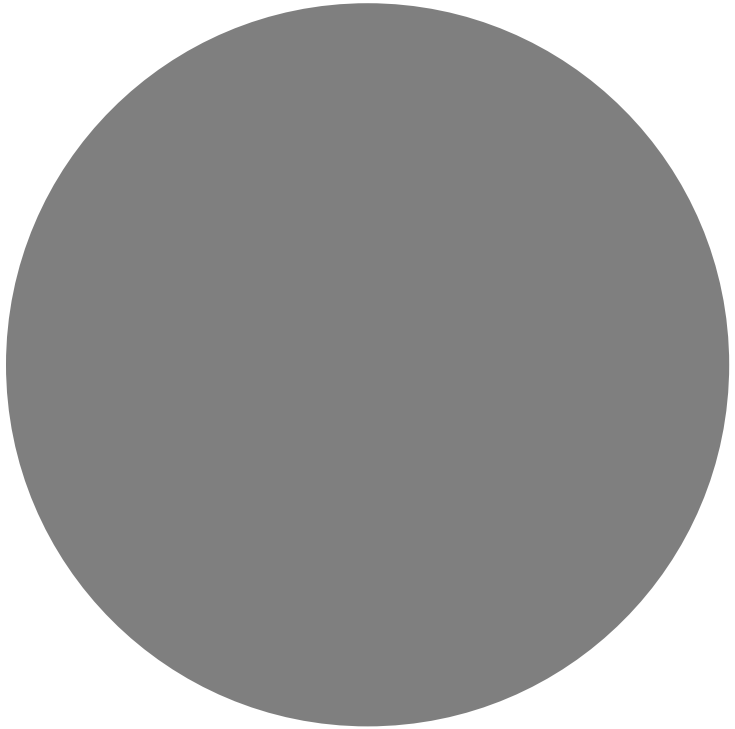


Data for Policy: D4P @ P4D



Verified facts
High quality

Design, production, communication



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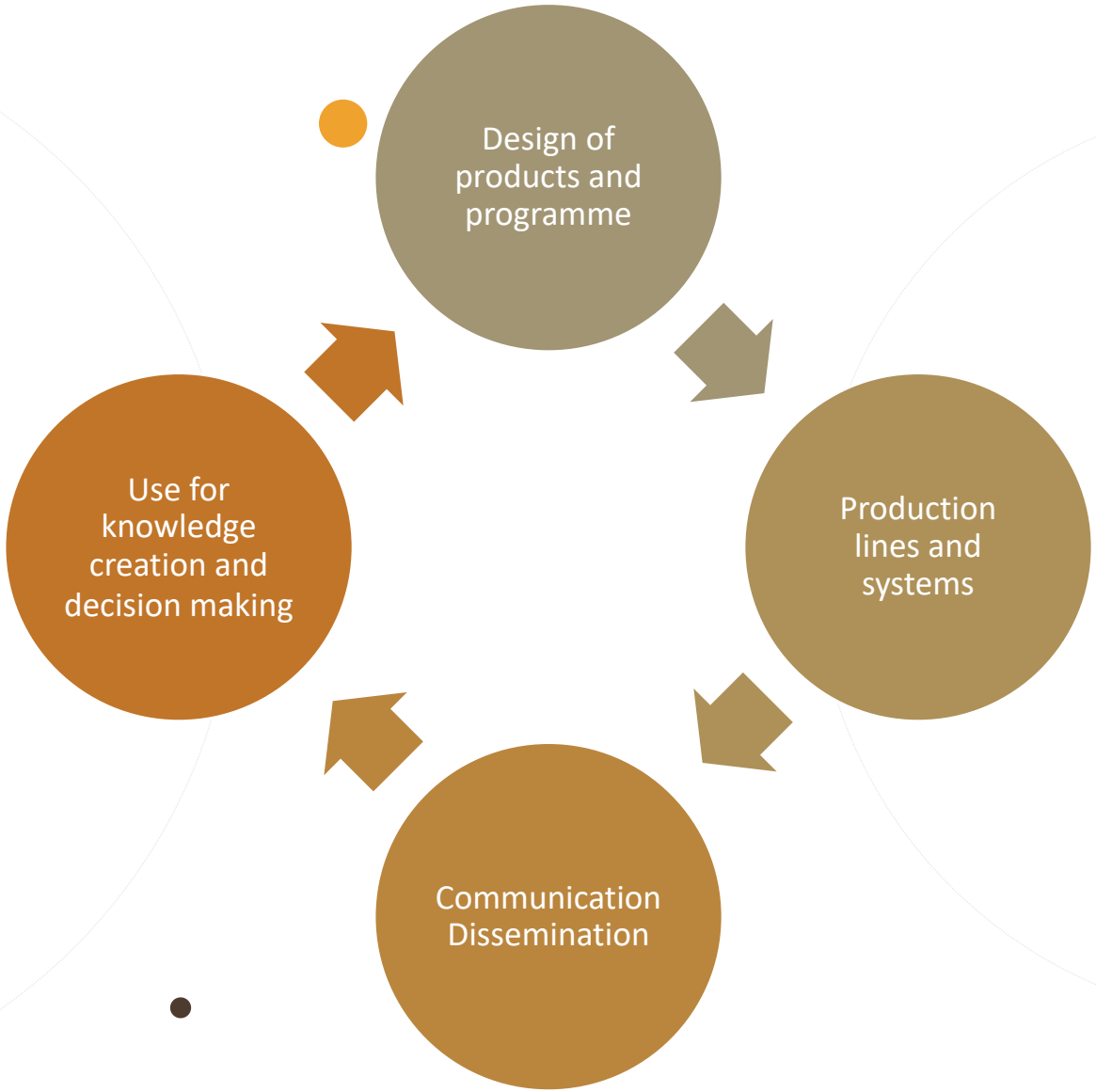
INFORMATION QUALITY SCALE	
Zone 1	
True statement	Verified facts
ZONE 2	
Distorted statements	Framing, acute angles, omission, “selected facts”
Unsubstantiated statements	Rumors (maybe true, maybe false)
ZONE 3	
False statements	False rendering of facts, in contradiction to these lies
Bullshit	False rendering of one's own motives and goals, misrepresentation, faking, dissolution of the separation between true and false
Fake News	Fake news, false reproduction of motifs and goals with simulation of journalism and thus truthfulness

Hendricks, Vincent F.; Vestergaard, Mads, 2018, "Post faktisch”, München

3.7

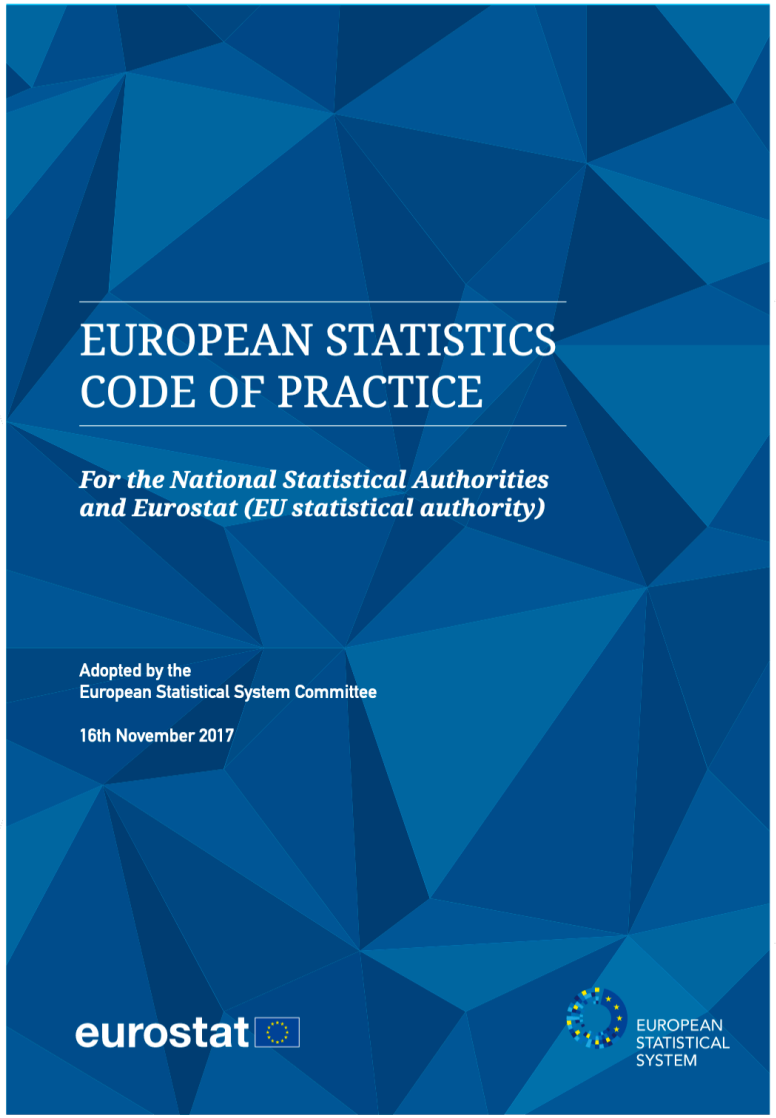
Factory Statistics: main processes



(Total) Quality Management

EFQM Modell 2019

https://www.efqm.org/index.php/efqm-model/

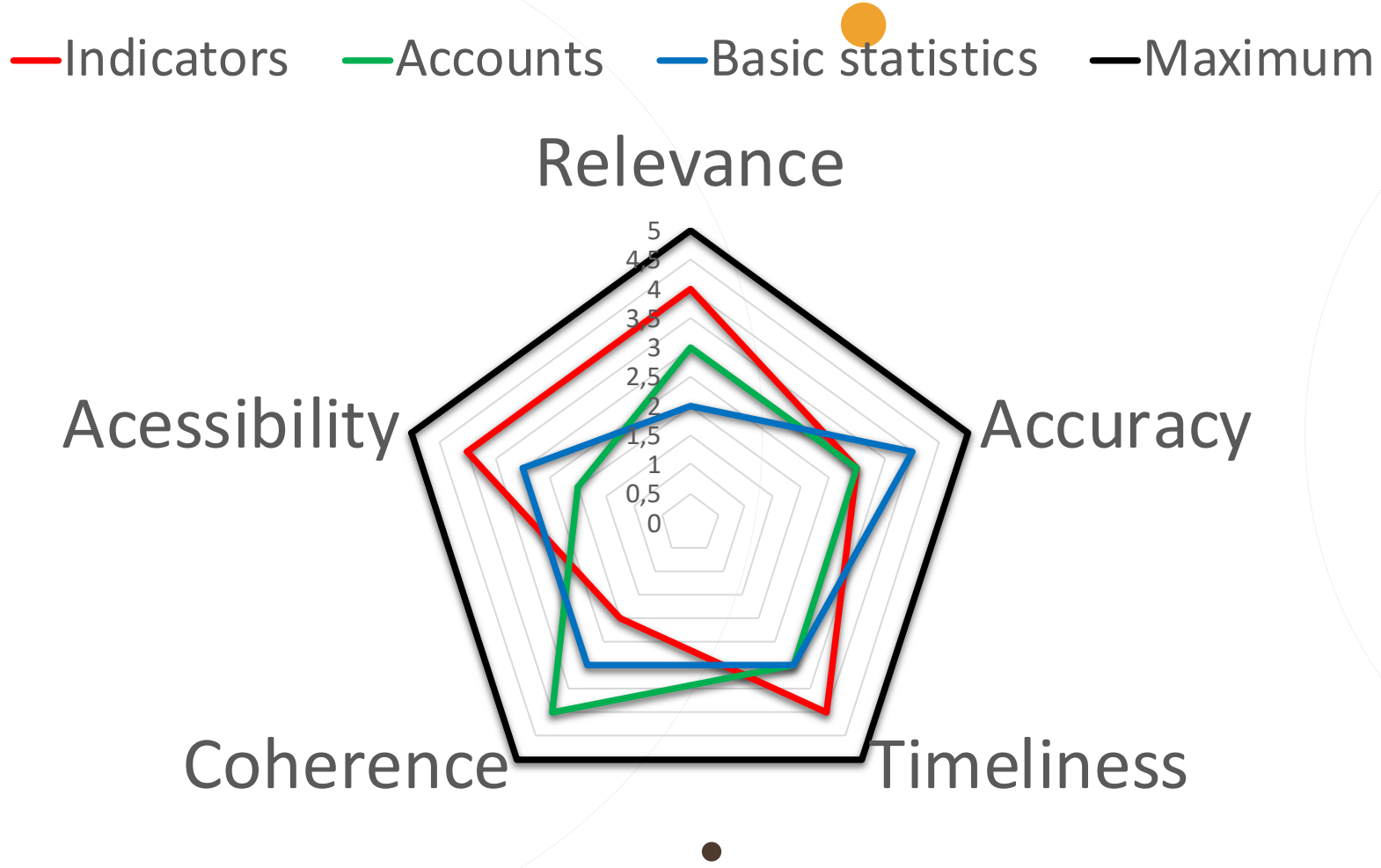


https://ec.europa.eu/eurostat/documents/4031688/8971242/KS-02-18-142-EN-N.pdf/e7f85f07-91db-4312-8118-f729c75878c7

Verification: Code of Practice

Institutional environment	Statistical processes	Statistical output
1. Professional independence 1bis. Coordination and cooperation 1. Mandate for data collection 2. Adequacy of resources 3. Commitment to quality 4. Statistical confidentiality 5. Impartiality and objectivity	7. Sound methodology 8. Appropriate statistical procedures 9. Non-excessive burden on respondents 10. Cost-effectiveness	11. Relevance 12. Accuracy and reliability 13. Timeliness and punctuality 14. Coherence and comparability 15. Accessibility and clarity

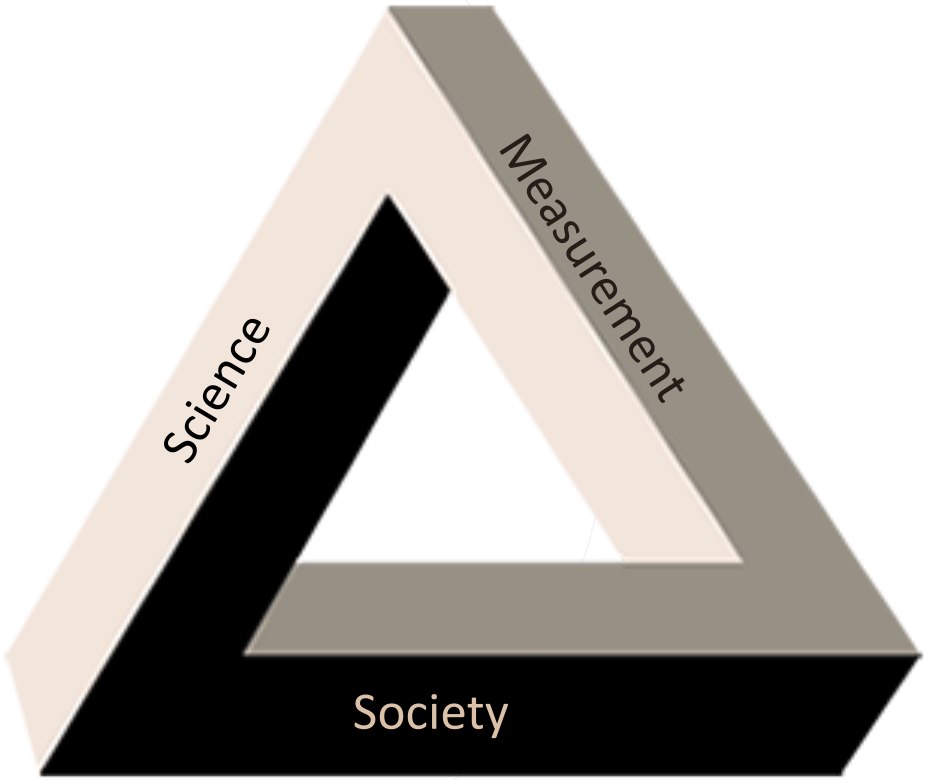
Quality profiles of statistical products



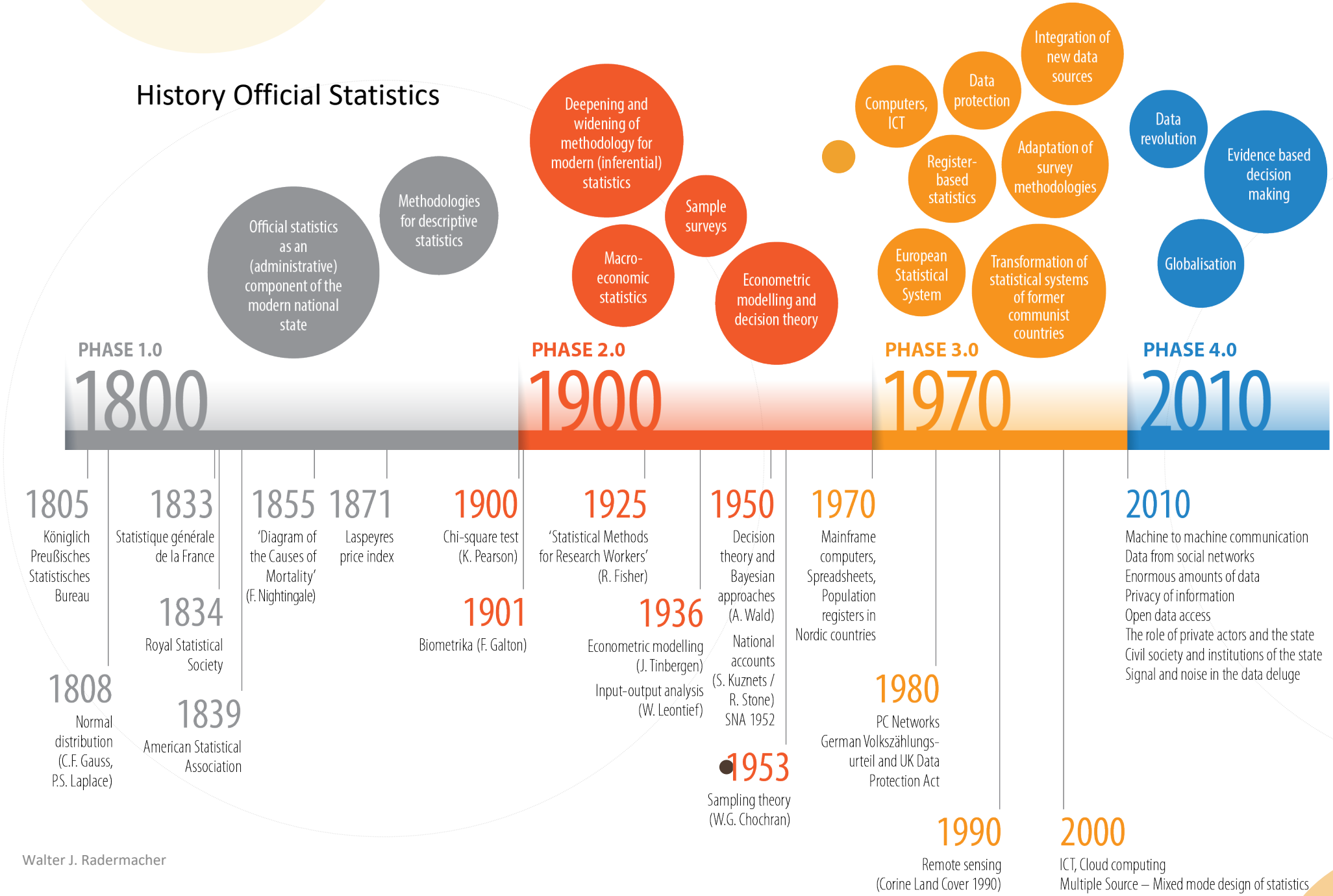
National and international

Official statistics = public administration

Driving forces of change



History Official Statistics



Principles of good governance

- Behaving with integrity, demonstrating strong commitment to ethical values, and respecting the rule of law
  - accountable not only for how much they spend, but also for how they use the resources
  - accountable for outputs, both positive and negative, and for the outcomes
  - accountable to legislative bodies
  - demonstrate the appropriateness of their actions, adhere to ethical values and respect the rule of law
- Ensuring openness and comprehensive stakeholder engagement
  - established and running for the public good
  - governing bodies ensure openness in their activities
  - using clear, trusted channels of communication and consultation
  - engaging effectively with all groups of stakeholders, such as
    - individual citizens
    - service users
    - institutional stakeholders

IFAC. 2014. *INTERNATIONAL FRAMEWORK: GOOD GOVERNANCE IN THE PUBLIC SECTOR - executive summary* (The International Federation of Accountants (IFAC) and the Chartered Institute of Public Finance and Accountancy (CIPFA): London).

Digitisation @ globalisation

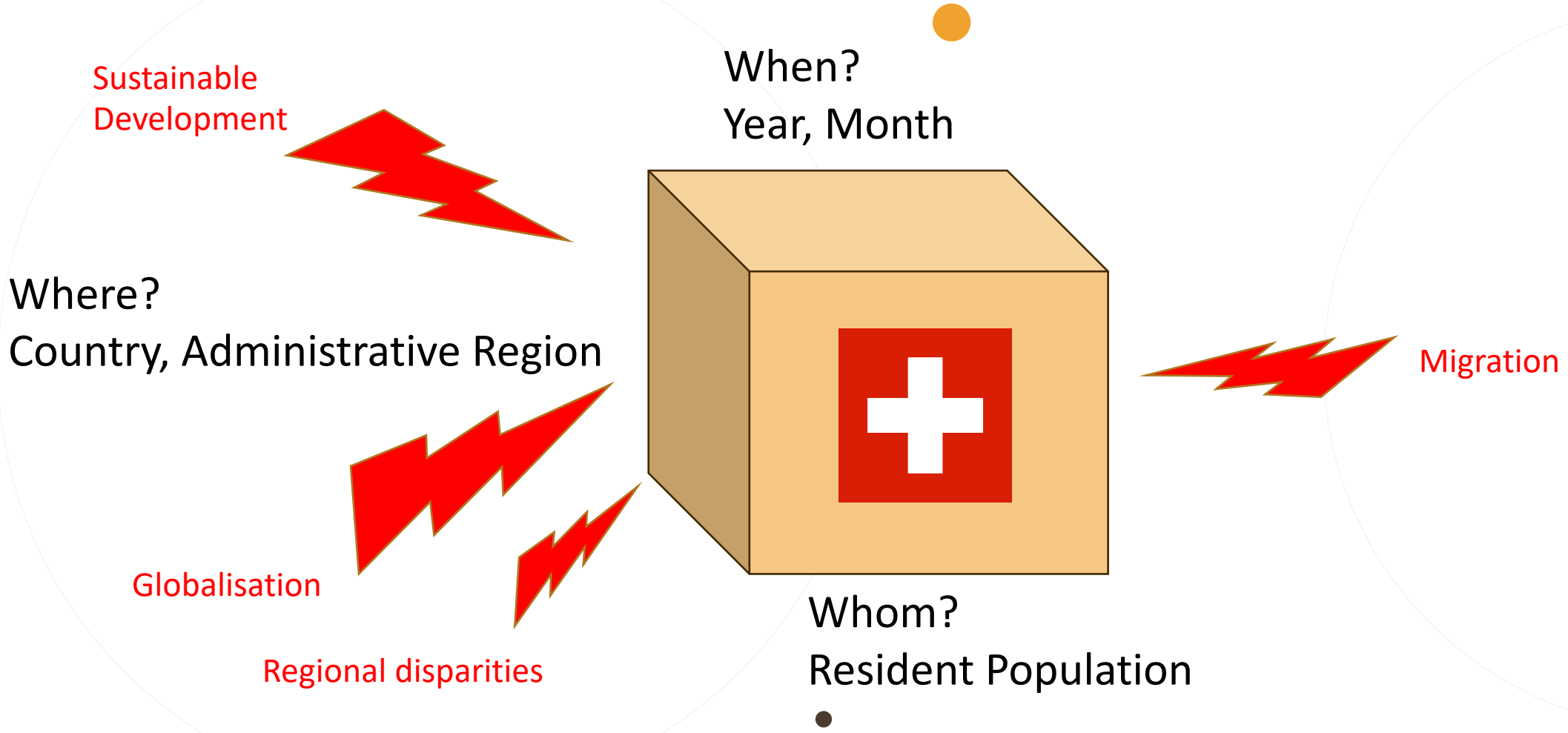
New opportunities and challenges

Walter J. Radermacher

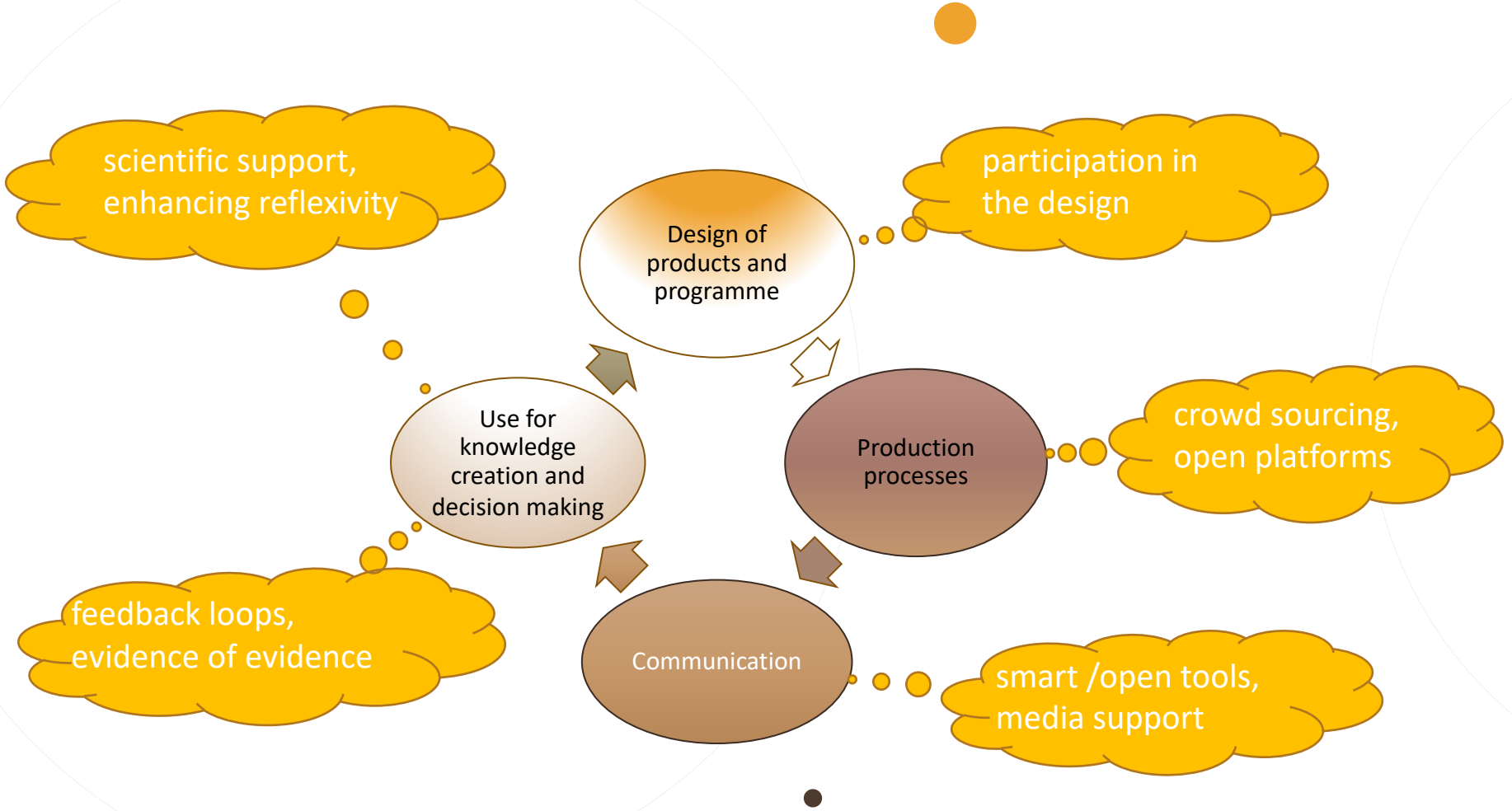
Guiding principles of Official Statistics 4.0

- **Statistics is key for people empowerment**: Statisticians should be aware of data's power to provide information and, hence, knowledge.
- **Open data is fundamental for open societies**: Statisticians should ensure open and transparent access to data and metadata and monitor their actual use for information and knowledge.
- **'Datacy' is a key enabler for citizens**: Statisticians should promote data literacy in society at large, and regularly monitor the levels of understanding.
- **The future is (trusted) smart statistics**: Statisticians should continue to invest in methods, algorithms and a business architecture that enhance the quality of data for statistical services tailored to users' needs.
- **Users participate in the design, production and communication of statistics**: Statisticians should foster a greater involvement of civil society in all stages and processes of statistical production.
- **More influence means more responsibilities**: It is the duty of statisticians to explore the link between statistics, science, and society, and to lead intellectual reflections on the possible risk of over-reliance on data-centrism

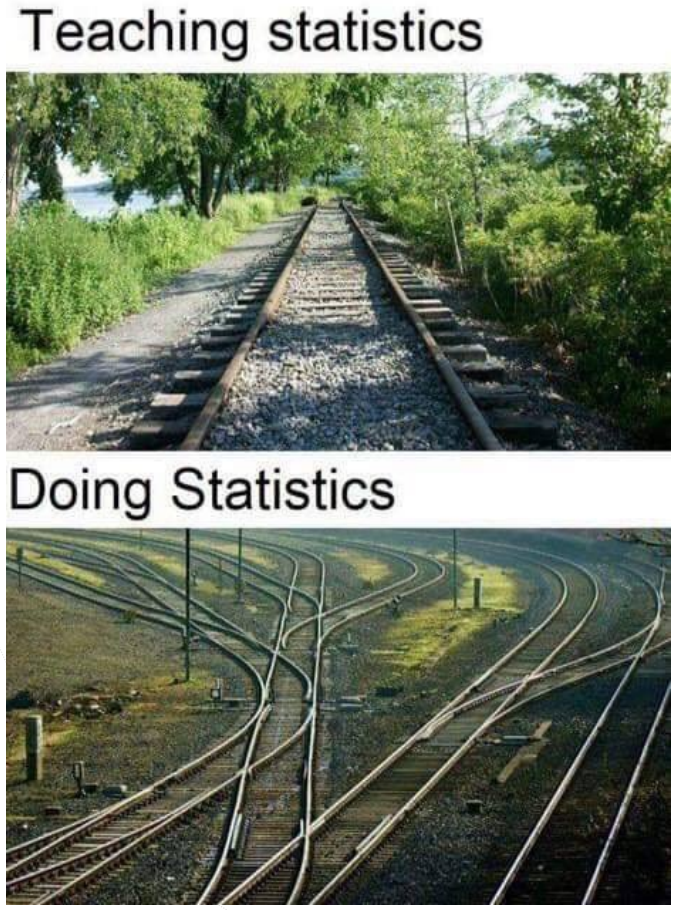
Glocalisation: Reviewing the national statistics paradigm



Bridging the gap: civil society as co-producer



Closing the scientific gap



- Lack of scientific research, suitable textbooks and qualified training courses for official statistics
- There are many sciences contributing to research on processes of quantification and the impact of quantification within social contexts
  - A scientifically founded, conceptual operationalisation of statistical processes (in data collection, national accounts, indicators) requires more than the knowledge of specific statistical methods, informatics or data sciences
  - Other disciplines, such as sociology, historical, or legal disciplines to be taken on board

Policy4Data

Statistical governance in the new era

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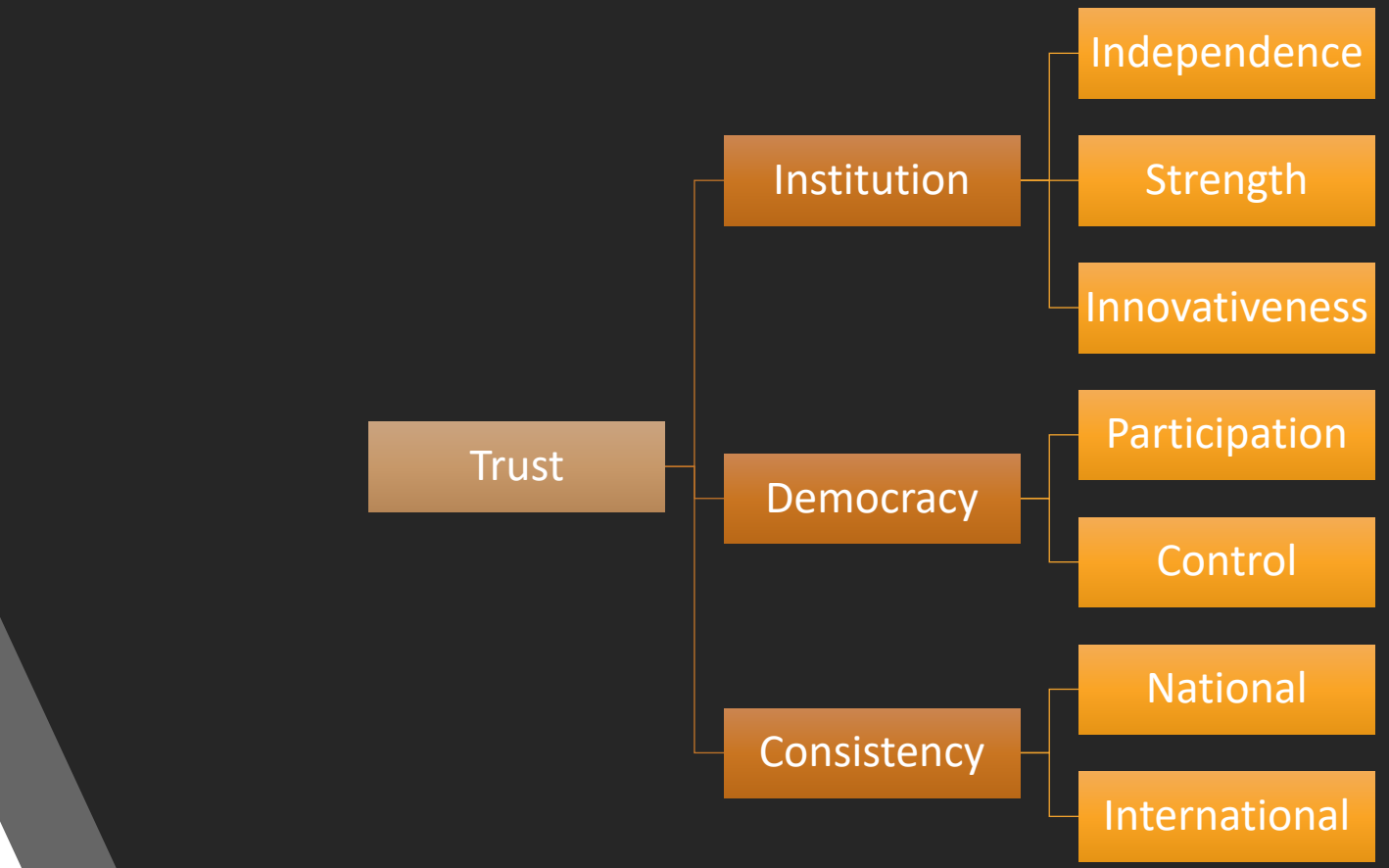
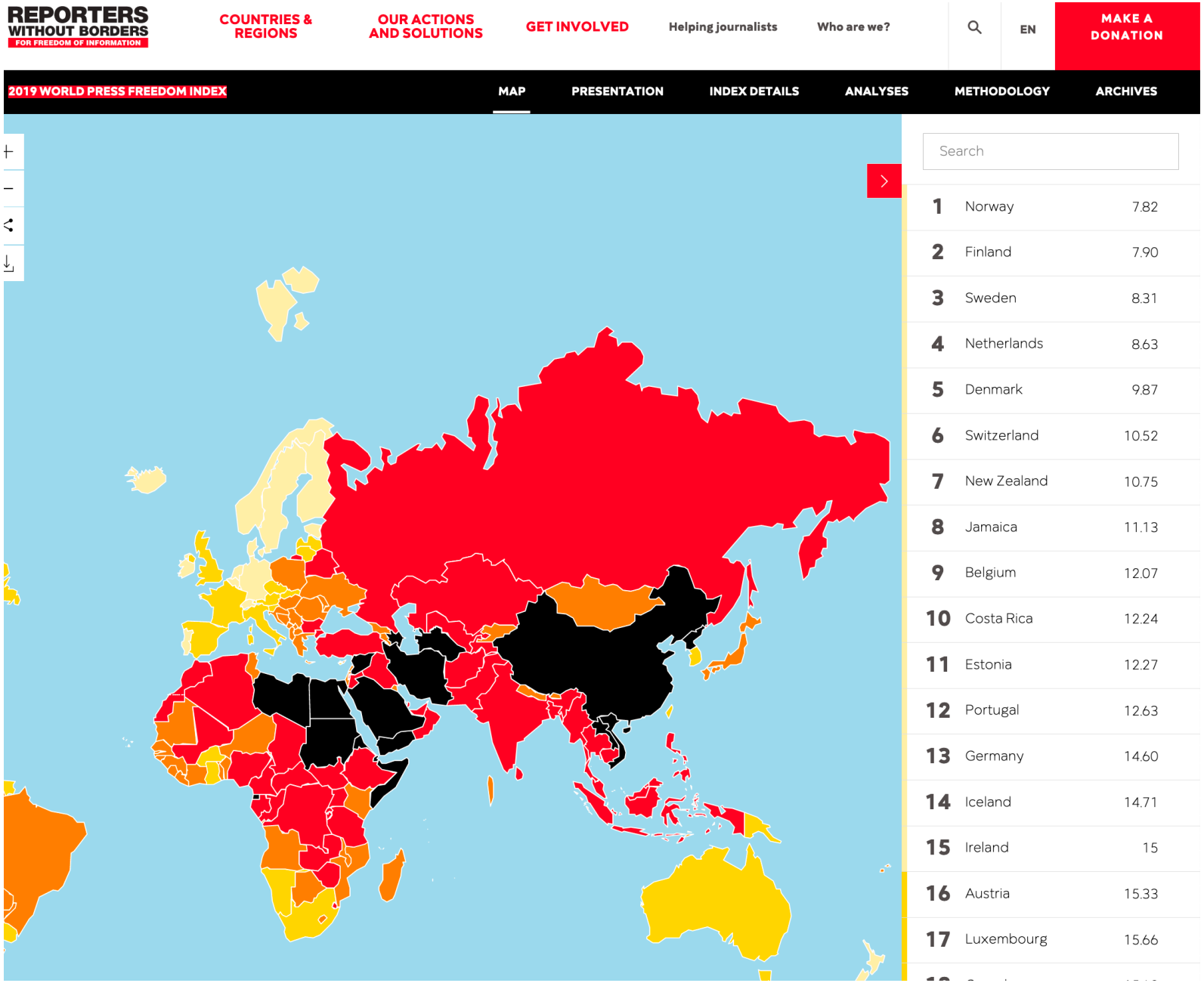
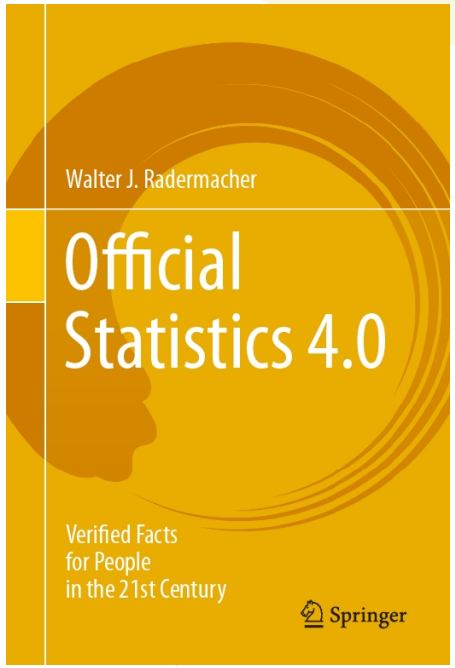
Policy relevance without being politically driven!



A World Statistical Independence Index?



https://rsf.org/en/ranking



THANK YOU

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Official Statistics 4.0
Verified Facts for People in the 21st Century
https://www.springer.com/gp/book/9783030314910

Governing-by-the-numbers / Statistical Governance
Reflections on the future of official statistics in a digital and globalised society
SJIAOS, Dec 2019
https://www.iaos-isi.org/index.php/journal