

Panel
*Transforming Research Assessment for Next
Generations*

Sarah de Rijcke

CWTS, Leiden University

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Universiteit
Leiden
The Netherlands

The Promise of Open Science



**Improve academic
culture**



**Foster responsible
research conduct**

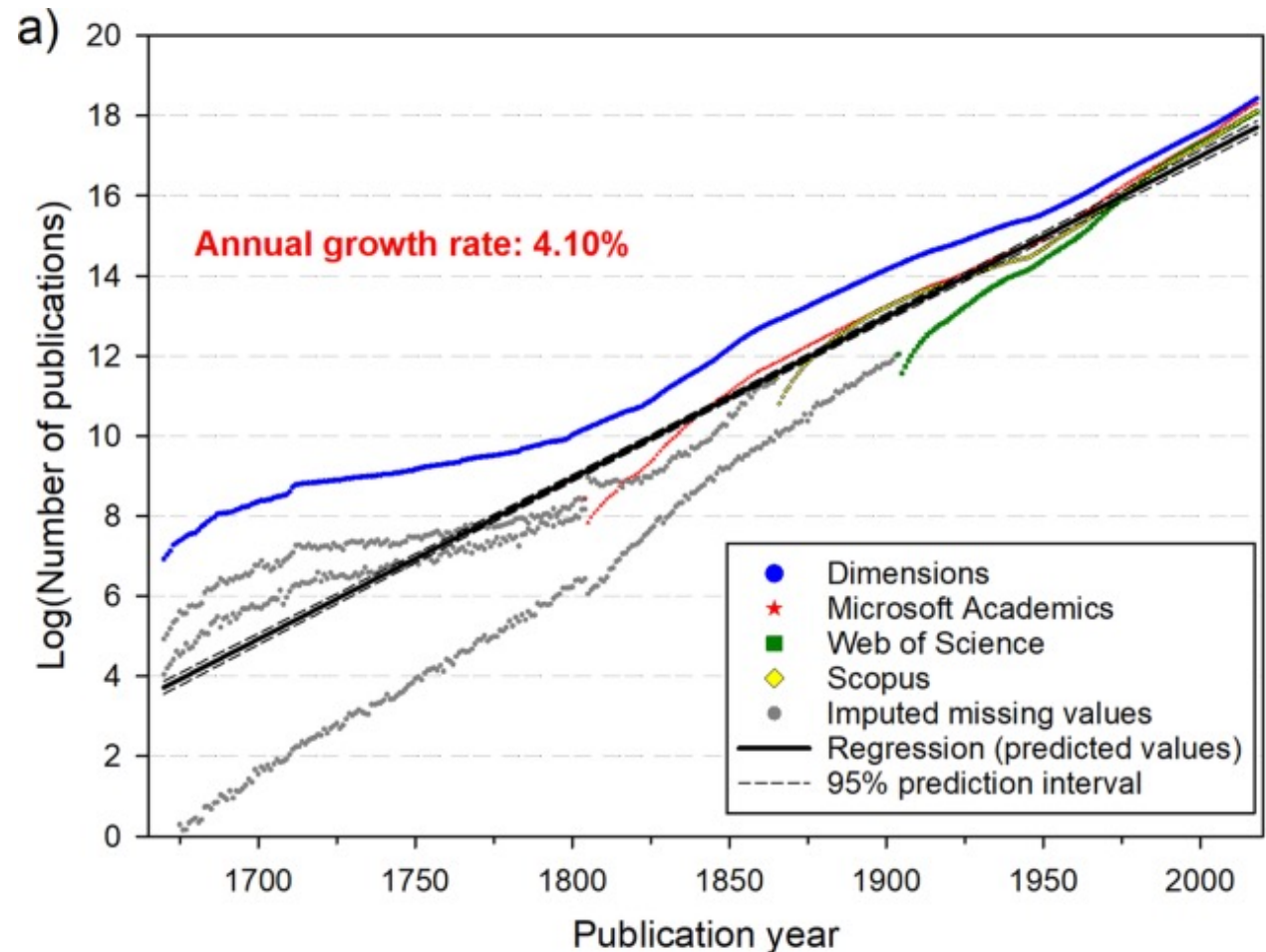


**Improve interaction
and impact**

64 million academic papers since 1996

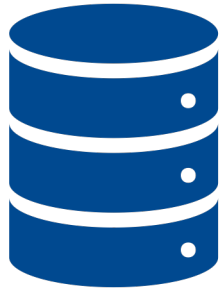
5,14 million annually (2022)

Doubling time of 17.3 years



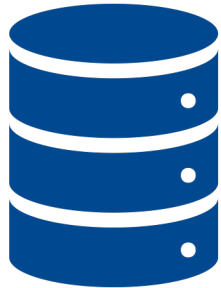
(Bornmann, Haunschild, Mutz, 2021)

The system needs to change



- Novelty and quantity dominate over quality, replicability, and societal relevance
- 4-year funding cycles → short-termism & risk aversion
- Fields with high societal impact, but low citation impact suffer (applied vs basic; SSH vs STEM)
- National and institutional research agendas are thus not properly reflecting societal needs
- Competitive and non-cooperative practices

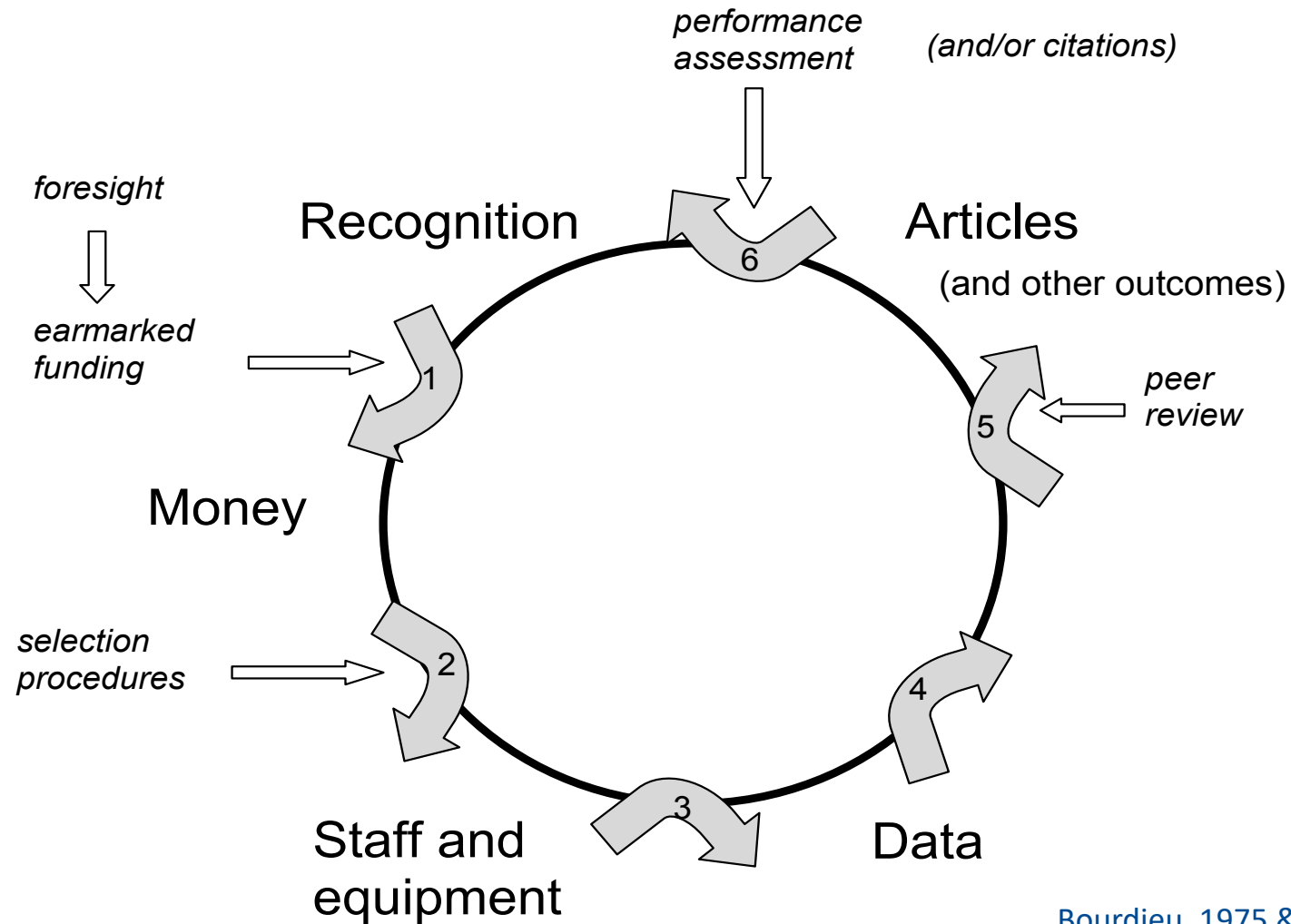
The classical image of science distorts the system



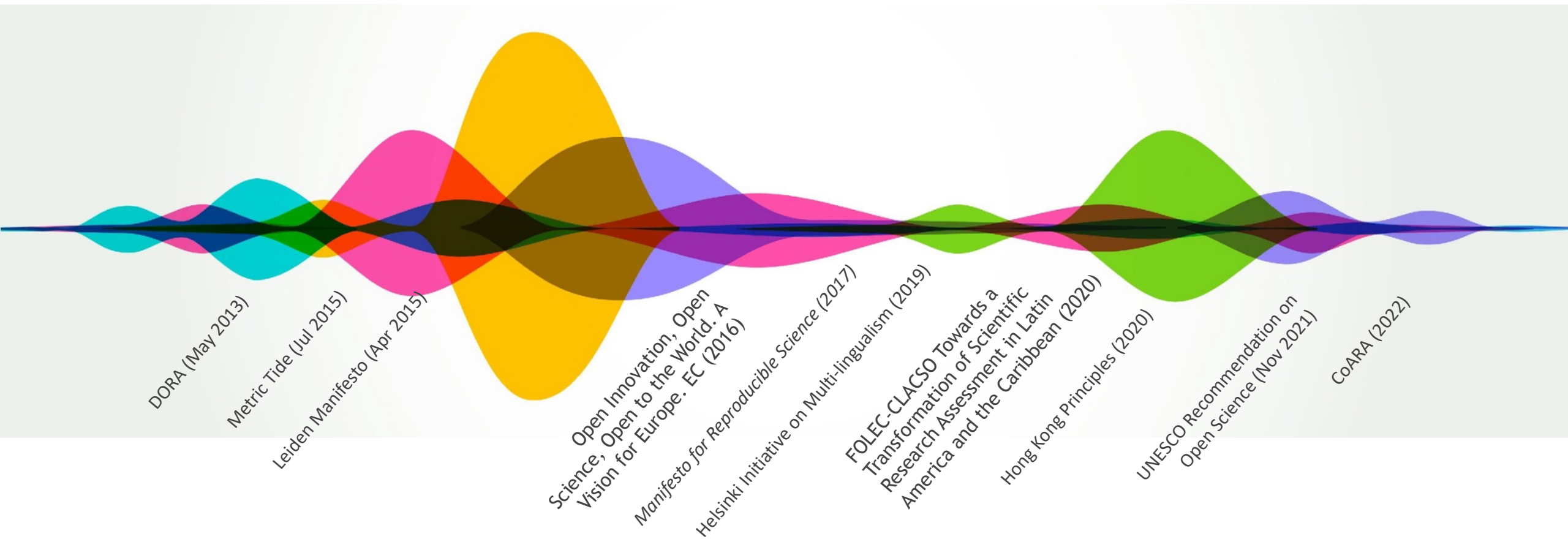
Flawed
academic
hierarchies

- Natural science > Social science > humanities ('physics envy')
- Theoretical & pure science > applied science & technology
- 'Curiosity-driven research is best for solving societal problems'
- 'Science should be autonomous; no external interference'
- 'Scientific knowledge is neutral; scientists are not responsible for the knowledge they (don't) produce'

How scientists get credit



Transforming research culture through RRA & Open Science



DRIVERS

1. Misapplication of narrow criteria & metrics

2. Desire for non-bibliometric indicators for a broader view of research

3. Increasing focus on societal and economic outcomes of research

4. Increasing focus on institutional mission and local priorities/needs

5. Drive to create (open) research and evaluation infrastructure

6. Drive to change research culture (esp. Inclusion & Diversity and Sustainability)

Responsible Research Assessment

Umbrella term for approaches to assessment which incentivise, reflect and reward the plural characteristics of high-quality research in support of diverse and inclusive research cultures

Research evaluation systems affect

- the culture of research
- individual career trajectories and researchers' well-being
 - the quality of evidence informing policy making
 - priorities in research and research funding

Open Science



UNESCO Recommendation on O

Some guiding Principles

- It takes a global, combined effort of many different stakeholders to break the barriers in research assessments
- Align research assessments with principles Open Research
- Change current research culture and reward researchers for sharing, collaborating and engaging with society

