

24 September 2018

National Platform Open Science NL Meeting Den Haag

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Research trajectories....



Physics BA

Internet Activism

Sociology MA

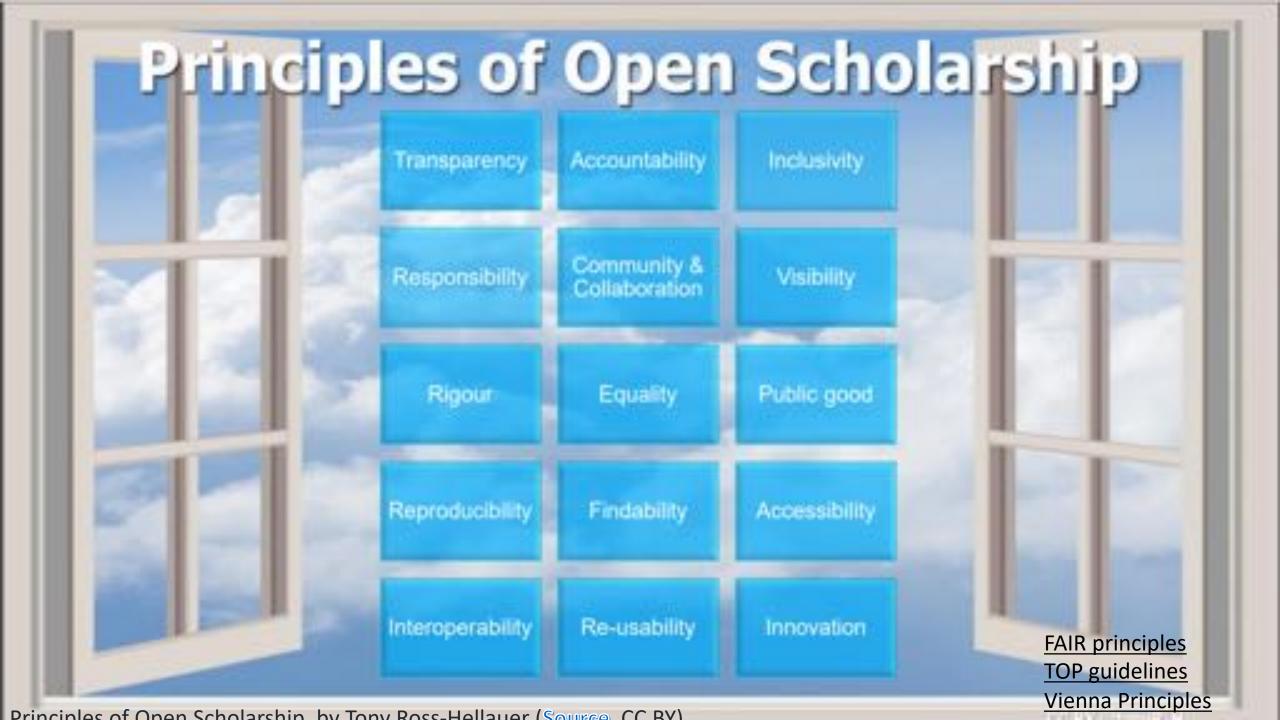
ICT industry (Content Management, Information Retrieval, Open Source)

Social Studies of Science and Technology PhD

Research policy

RRI in Academic
Practice

Computational Social Science and Big Data (PostDoc)





Principles in open science

Drivers

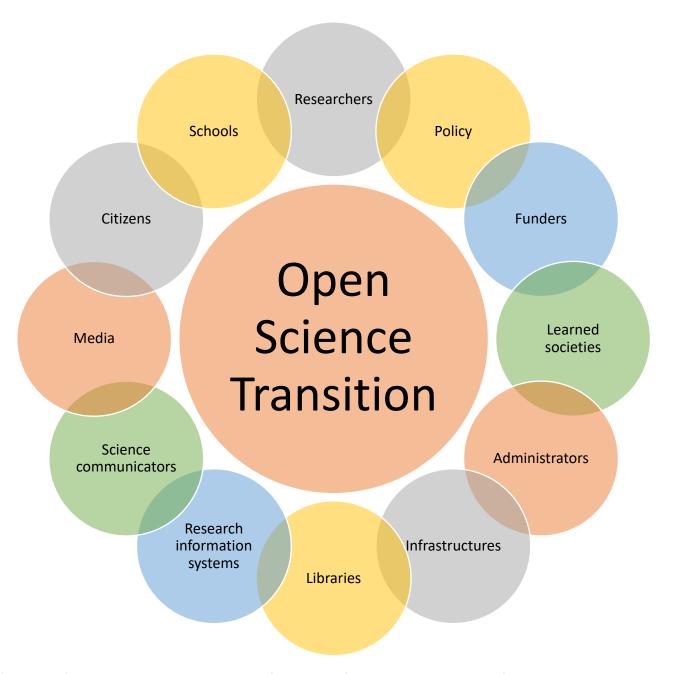
- ✓ Reduce publication bias.
- ✓ Increase replicability.
- ✓ Increase reliability of scientific record.
- ✓ Make publicly funded research publicly accessible.
- ✓ Make research more efficient.
- ✓ Increase public trust.
- ✓ Foster collaboration.
- ✓ Sustainable research.

Barriers

- Fear of scooping or ideas being stolen.
- Fear of not being credited for ideas.
- Fear of errors and public humiliation.
- Fear of risk to reputation.
- Fear of reduced scientific quality.
- **Fear** of information overload.
- Fear of career compromise.
- **Fear** of backlash from senior figures.
- Fear of being different.

Slide by Jon Tennant @protohedgehog

Changing the evaluation, incentives and reward systems will



Changing the evaluation, incentive and reward systems towards Open Science: map of actors

RESEARCH & INNOVATION

Research and Innovation Observatory – Horizon 2020 Policy Support Facility

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PSF Knowledge Centre: https://ec.europa.eu/h2020-policy-support-facility









Three topics:

- 1. The potential of altmetrics alternative (i.e. non-traditional) metrics that go beyond citations of articles to foster Open Science
- 2. Incentives and rewards for researchers to engage in Open Science activities
- Guidelines for developing and implementing national policies for Open Science

Goals of the Mutual Learning Exercise

- 1. Address challenges related to the implementation of Open Science
- 2. Identify good practices, lessons learned and success factors by analysis and discussion of member states' experiences
- 3. Promote policy learning from each other
- 4. Provide high level advice and assistance from external experts in fine-tuning or implementing change in the design of current policy system
- 5. Follow a modular approach with country visits, workshops, etc.



Armenia **Austria** Belgium Bulgaria Croatia **France** Latvia Lithuania Moldova **Portugal** Slovenia Sweden **Switzerland** Thematic Reports of the MLE



Report 1: Overview of Altmetrics

- in use & in development
- by type
- by [participating] country
- benefits and challenges



Report 2: Altmetrics and Open Science

Altmetrics could:

- Broaden our understanding of impact
- Promote adoption of Open Science (OS)
- Contribute to the academic reward system



Report 3: Incentives and Rewards

Systematic overview of:

- advantages and challenges of supporting OS activities
- most effective incentives to encourage implementation of **OS** policies.
- (dis)advantages of each type of incentive



Report 4: National Roadmap for the Implementation of OS

- Outline priorities and principles underpinning OS at the national level
- Review of experiences in OS activities and related policies
- Summary of strategies, lessons learnt, and models proposed

MLE findings: Incentives and Rewards

Enable a broad inclusive discussion on evaluation criteria and impact assessment – taking the opportunity to renegotiate the role of publicly funded research and scholarship in society

Necessity to develop incentives for different stakeholders: researchers, research organisations, funders, national governments and policy makers

Broad institutional shift in support and evaluation structures necessary (including other types of outcomes, invisible work, outreach and OER)

Train reviewers and assessors

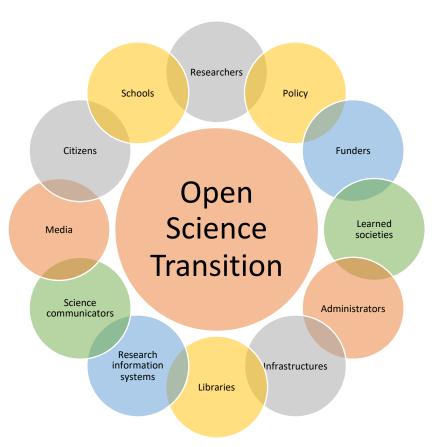
Radical transformation of hiring and promotion procedures (see OSCAM)

International cooperation and coordination crucial for successful transformation

Reviewing impact of incentives and adaptation

Support pilot programmes and new instruments for HR and science administration (CRIS)

Creating open science friendly evaluation systems inline with the right incentive and reward structures is essential for Open Science Leadership



Constantly bring to attention that

- Open science is not "all or nothing"
- Mainstreaming OPEN in TEACHING is key
- OS is an opportunity to discuss broadly WHAT MATTERS
- OS is already changing the culture of research and transforming collaborative processes
- Organizations create clear and visible OS policies
- Now is the right moment to change systems of measurement and optimize and open documentation systems
- OS co-shapes a new understanding (and measurement) of innovation
- It is important to have role models and broadly visible best practices

