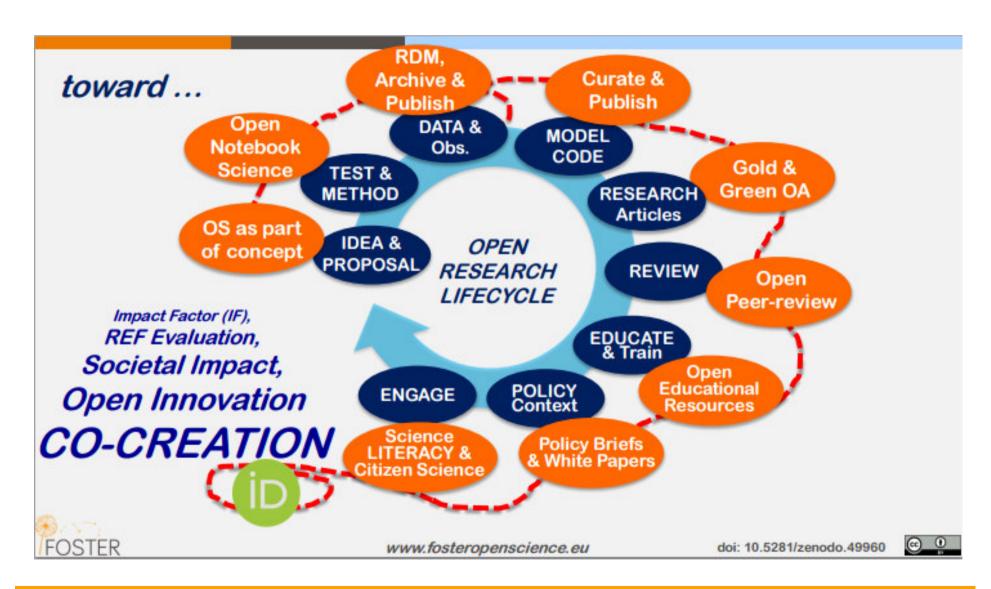






Changing scholary communication discourse

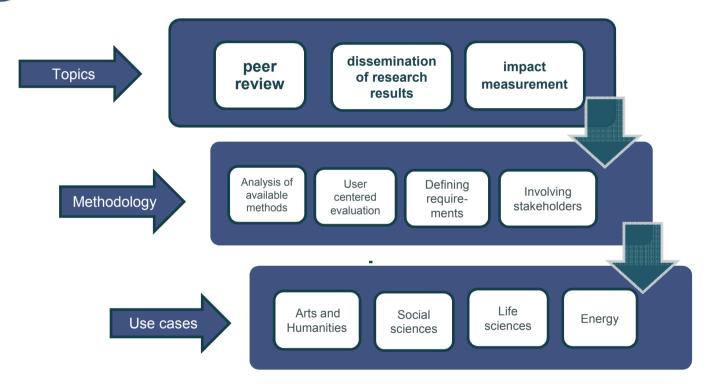






Our mission

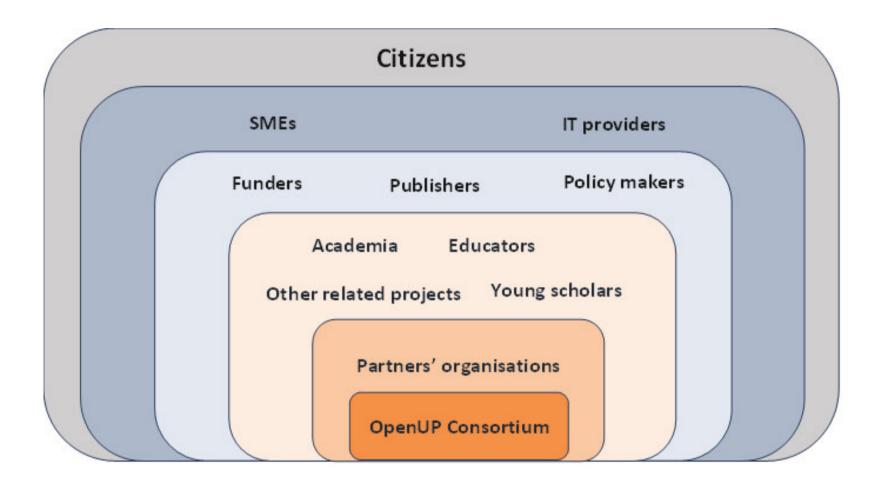
pening UP new methods, indicators and tools for...



within the Open Science ecosystem.

Target communities



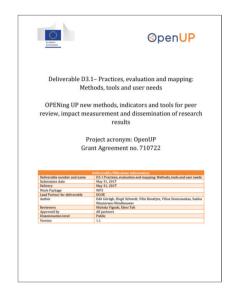






Aims and activities

- Peer review landscape scan:
 - Map out the alternative review tools and services
 - User-centered survey
 - Examine peer review in context of research flow and in different disciplinary settings
 - Develop a framework for evidecebased research on peer review
 - Produce information resources
 - Produce policy recommendations







Aims and activities

- 2. Contributing to the developing open science discourse
- Create ties with other EU projects aligning efforts in researching open peer review and open science practices.
- Sharing taxonomies (FOSTER),
- Building on previous research (OpenAIRE), developing collaborations.
- Open science advocacy work: organizing workshops and webinars.









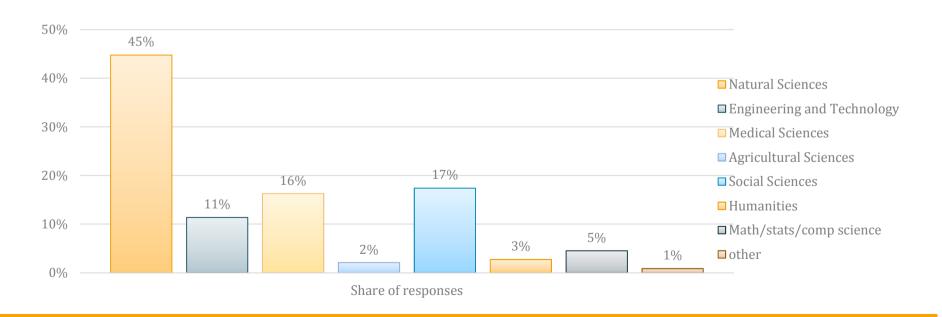


Methodology

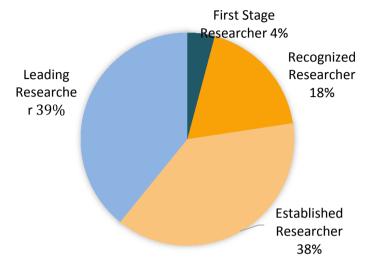


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- The survey conducted between January 20 February 23, 2017.
- The survey targeted researchers from the EU-28, Switzerland and Norway.
- Survey invitations were sent to a random sample of researchers from arXiv, Pubmed and RePEc with at least one publications as main authors. Later sample was broadened to reach underrepresented areas through the DARIAH website, THESIS network, EURODOC, AIMS portal, the Parthenos community and other channels.
- 1347 responses, of which 976 were completed.

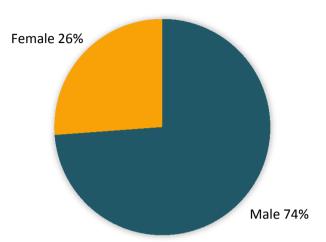


Career stage

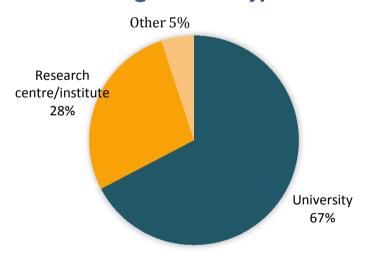


Gender

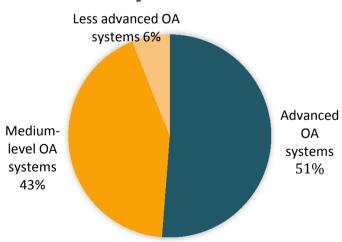




Organisation type



Country of affiliation





Researcher/author perspective



Satisfaction with peer review process

How satisfied are researchers with the current peer review process? Are they willing to take up open peer review?

Overall, almost 73% of respondents were very or somewhat satisfied

Disciplinary differences

Respondents from the engineering & technology discipline were less satisfied (60%) than researchers from other disciplines

Career stage differences

Younger researchers (50-60%) were substantially less satisfied with the process than leading researchers (81%)

Main concerns regarding traditional peer review



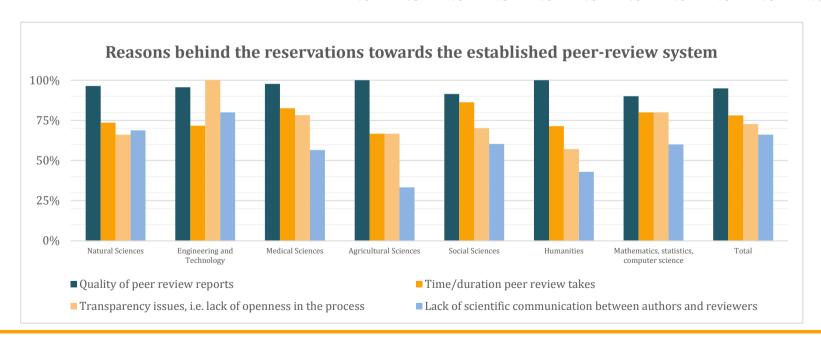
Quality of peer review reports

Time/duration peer review takes

Transparency issues, i.e. lack of openness in the process

Lack of scientific communication between authors and reviewers

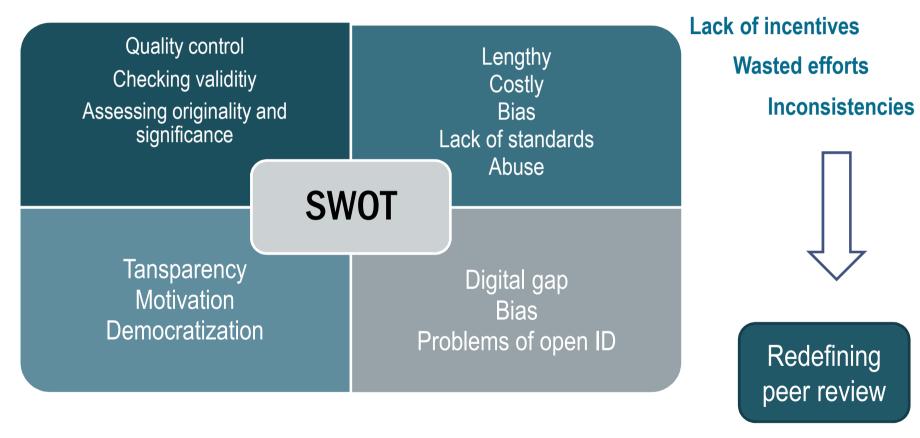
0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



Established review system



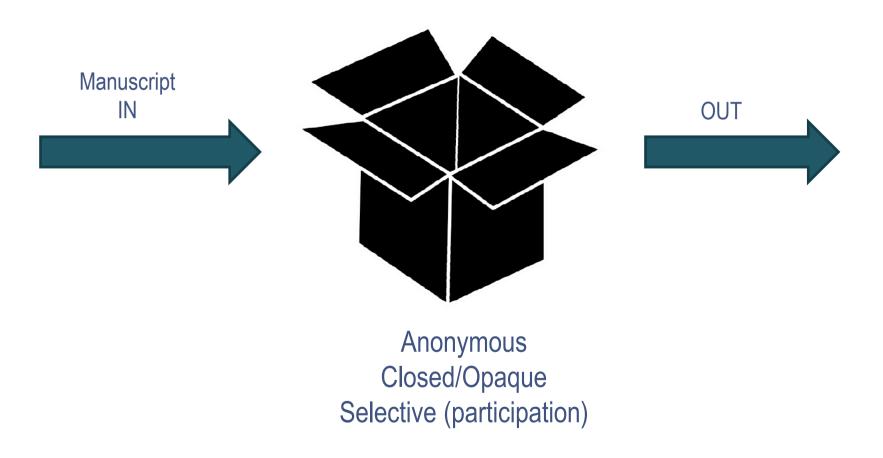
Lack of accountabbility





Peer review re-defined

Quality assurance mechanism where scholarly works are scrutinised by peers/experts, whose feedback are used to improve the works



Defining open peer review



Open Peer Review encompasses diverse constellations of many distinct aspects:

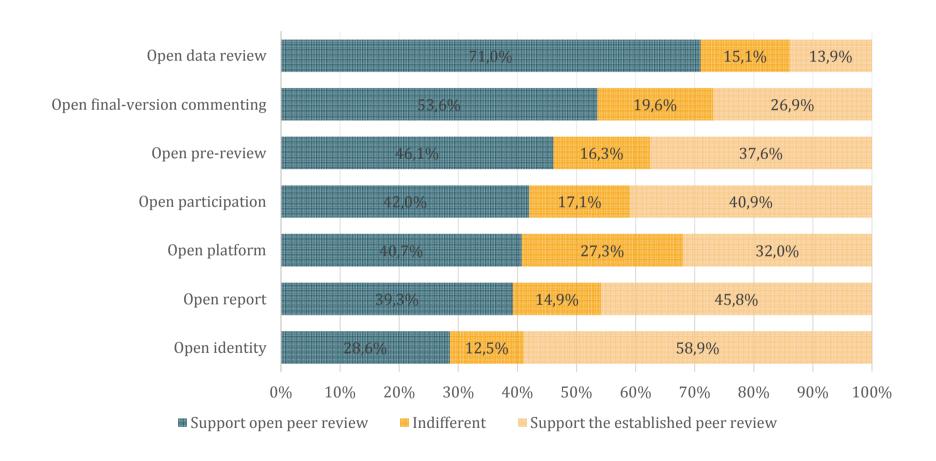
- 122 definitions collected and analysed
- 22 distinct configurations of 7 traits identified



Ross-Hellauer, 2017, doi: 10.12688/f1000research.11369.2

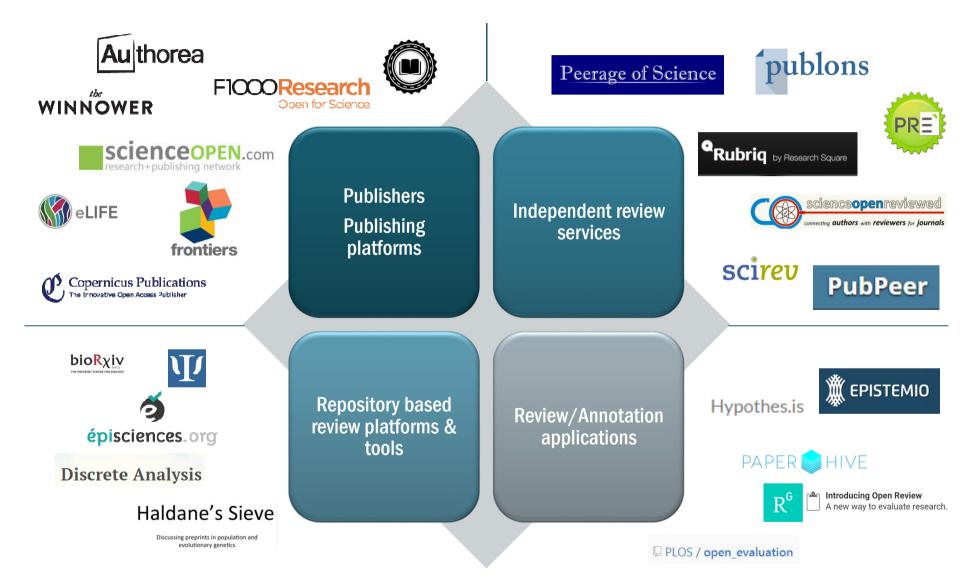


Preferences on open versus traditional peer review



Alternative review services & platforms

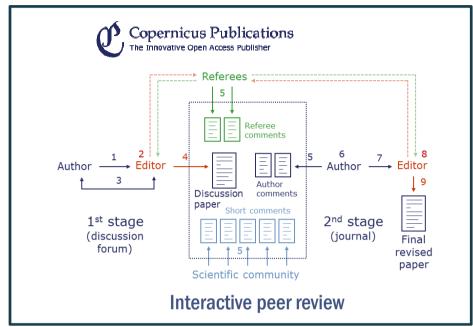




Publishing platforms



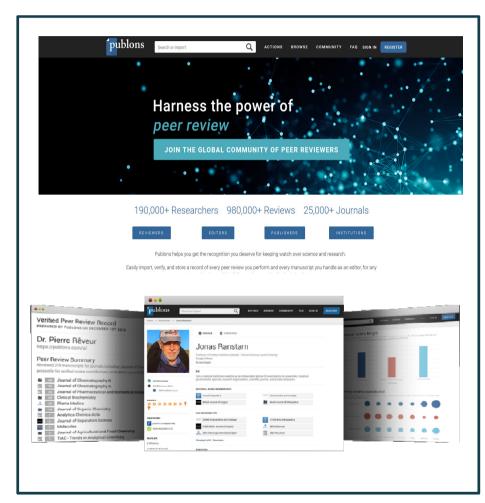


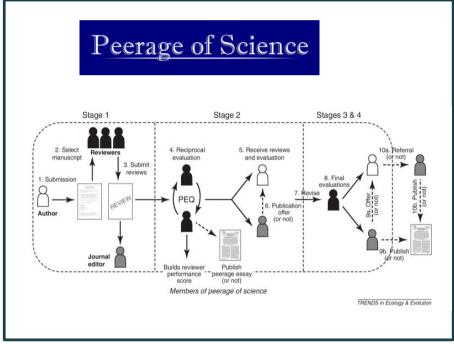




Decoupled review services

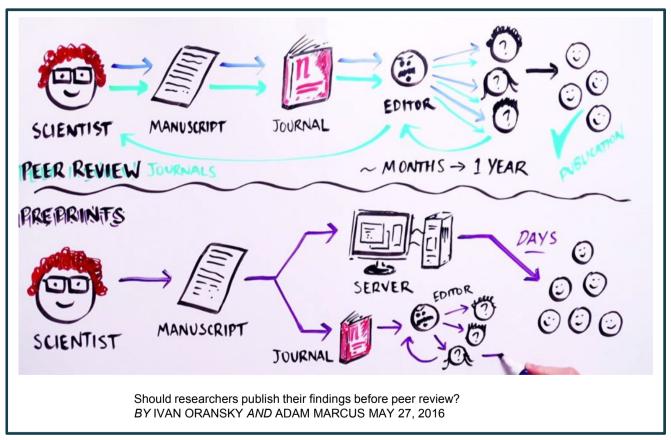






Preprint based publishing



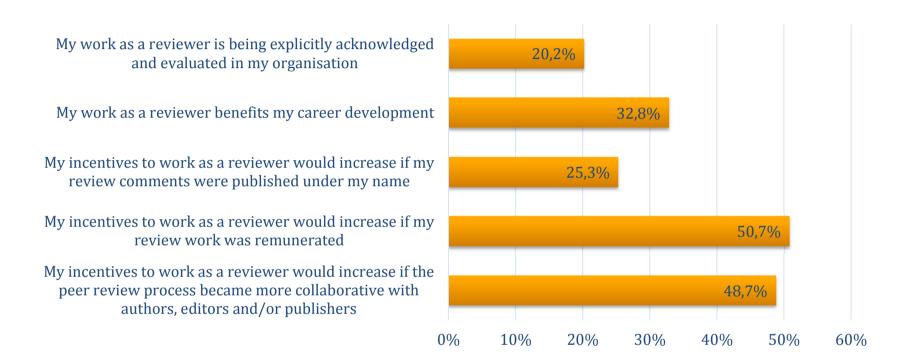




Reviewers' perspective



Incentives to review



Incentives to review



Crediting peer review

- ✓ Publons, Peerage of Science
- Peer review in academic promotion- recommendation of the OSI workgroup:

Address incentives and motivations to participate in peer review, not only in the context of rewards or credits for individuals but also in terms of the importance of peer review for promotion and tenure.

(Acreman 2016)

	Natural Science s	Engineer ing and Technolo gy	Medical Sciences	Agricultu ral Sciences	Social Science s	Human ities	Mathemat ics, statistics, computer science	Total
My work as a reviewer is being explicitly acknowledged and evaluated in my								
organisation	20,3%	28,7%	17,5%	20,0%	17,8%	4,0%	11,1%	20,2%
My work as a reviewer benefits my career development	32,0%	35,3%	36,9%	21,1%	30,3%	28,0%	24,4%	32,8%
My incentives to work as a reviewer would increase if my review								
comments were published under my name	20,6%	30,6%	31,0%	26,3%	31,3%	25,0%	18,2%	25,3%
My incentives to work as a reviewer would increase if my review work was remunerated	50.5%	47.3%	54.5%	63.2%	52.8%	60.0%	43,2%	50,7%
My incentives to work as a reviewer would increase if the peer	50,570	47,070	5-1,570	00,270	22,070	50,070	10,270	50,770
review process became more collaborative with authors, editors								
and/or publishers	41,1%	61,1%	57,0%	60,0%	55,0%	52,0%	33,3%	48,7%

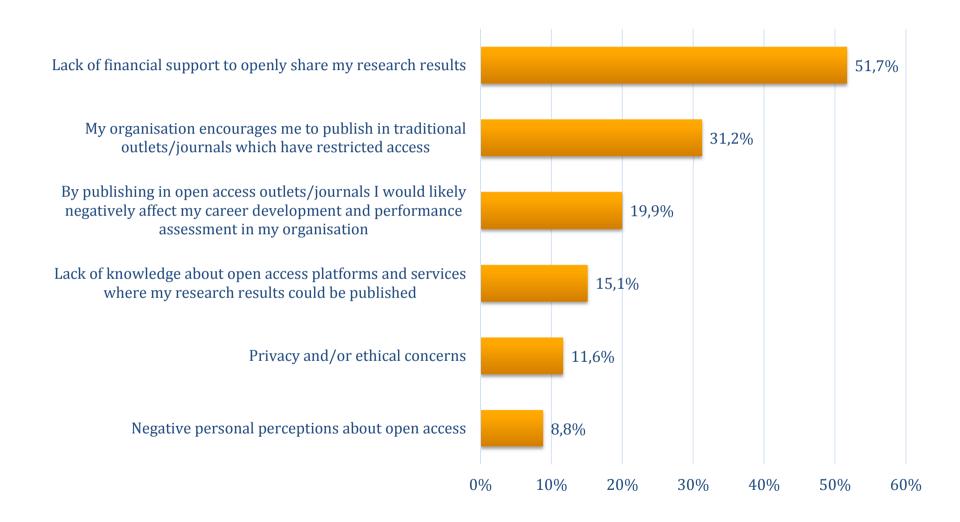
Note: Responses to question '2.2a - To what extent do you agree with these statements considering your experience as a reviewer under the established peer review system?' N=[870 – 900]. The percentages show a share of respondents who chose 'strongly agree' and 'rather agree' answer options.



Open science practices: open sharing

Main factors/barriers affecting open sharing







Growing demands

- 1. Transparency
- Incentives to review
- 3. Training reviewers

Reluctance to participate

Reluctance governed by FEAR:

- Ideas being stolen
- Not being credited
- Public humiliation
- Abuse of power dynamics and intimidation
- Empowerment of bad actors
- Marginalization
- Less honesty and criticism.

Source: Jon Tennant https://www.slideshare.net/OSFair/osfair2017-workshop-fear-and-loathing-in-open-peer-review





Guidance

 Lack of clarity over assessment of outputs and activities

Incentives

 Lack of professional incentives for being open

Rewards

 Hiring, promotions fail to account for open science activities Cultural shift in scholarly research/publishing

Evidence-based policies

Shifting power dynamics

Goal:

build a global community of Open Science based on sharing and collaborations

 $Source: Jon\ Tennant\ https://www.slideshare.net/OSFair/osfair2017-barriers-to-open-science-for-junior-researchers$

Advance Open Science practices





Collaborative writing tools

Publishing platforms

Repositories

Altmetrics

Open ID

Source: Jeoren Bosman and Bianca Kramer, https://101innovations.wordpress.com/



Open Science tools

OpenUP Hub

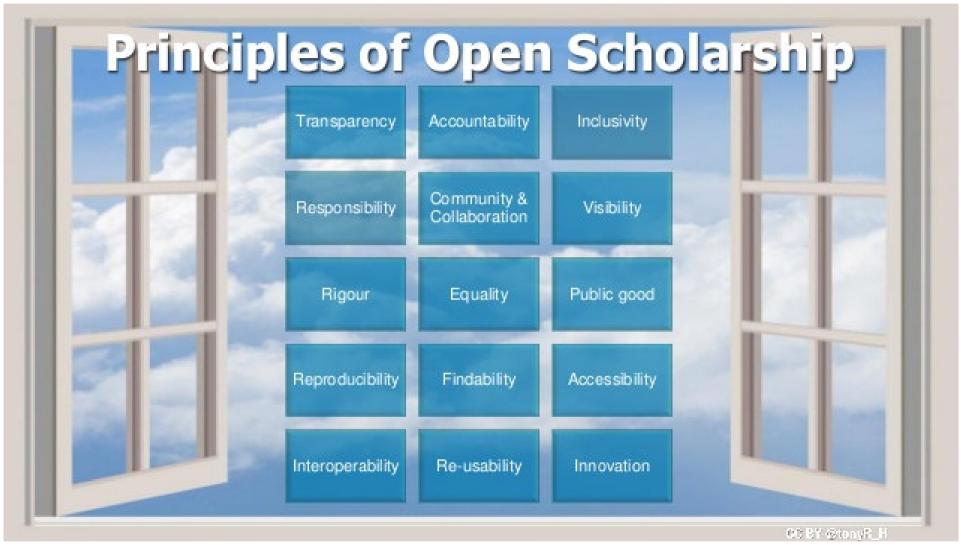


https://www.openuphub.eu/review

FOSTER Open Science Training Handbook







Source: Tony Ross-Hellauer https://www.slideshare.net/OpenAIRE_eu/peer-review-in-the-age-of-open-science

























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