REGIEORGAAN OPEN SCIENCE NL

Open Access: What's Next?

26 October 2023, Open Science Day
University of Twente

Jeroen Sondervan
Programme Leader Open Scholarly Communication at Open Science NL

Slides: https://tinyurl.com/OSDTwente

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unless stated otherwise

About me:

- +15 years of professional experience in Open Access publishing and Open Science
  - publisher
  - librarian
  - policy advisor
- In April 2023 joined Open Science NL*

Programme Leader Open Scholarly Communication at Open Science NL

* Open Science NL is a department dedicated to Open Science implementation at NWO – the Dutch Research Council)

We come a long way...

2013

100% Open Access

Stated as government ambition

2016

Amsterdam Call to Action

On Open Science & NL EU Presidency & Council conclusions

2017

National Action Plan

& National Platform Open Science (NPOS)

2022

Renewed ambitions

Heavily inspired on UNESCO recommendations

2023

Extra investments

New organizational structure

What is open science?

“Open science is a set of principles and practices that aim to make scientific research (...) accessible to everyone for the benefits of scientists and society (…) Open science is about making sure not only that scientific knowledge is accessible but also that the production of that knowledge itself is inclusive, equitable and sustainable.”

UNESCO Recommendation on Open Science, 2021

Why Open Science? Five schools of thought

- Democratic – making knowledge available to everyone
- Pragmatic – knowledge creation is more efficient through collaboration
- Infrastructure – research becomes more efficient through tools and services
- Public – science needs to be accessible to the public
- Measurement – scientific contributions today need alternative impact measures

Fecher, B., Friesike, S. (2014). Open Science: One Term, Five Schools of Thought. In: Bartling, S., Friesike, S. (eds) Opening Science. Springer, Cham. https://doi.org/10.1007/978-3-319-00026-8_2

Open Science is for me...

Open to participation

- No barriers based on gender, age, colour, culture, ableness, language, income, status, timezone
- Involvement of societal partners in research priority setting
- Evaluations that include societal relevance
- Citizen science & co-creation
- Broadly considering all knowledge (including local knowledge)
- Error friendly environment

Open to (re)use

- Open Access, f. people & machines, to:
  - Proposals and applications
  - Preregistrations
  - Data
  - Code
  - Preprints, working papers
  - Papers and books
  - Reviews and comments
  - Posters and presentations
- Open, non-proprietary standards
- Open licences
- Full documentation of process, including negative results

Open to the world

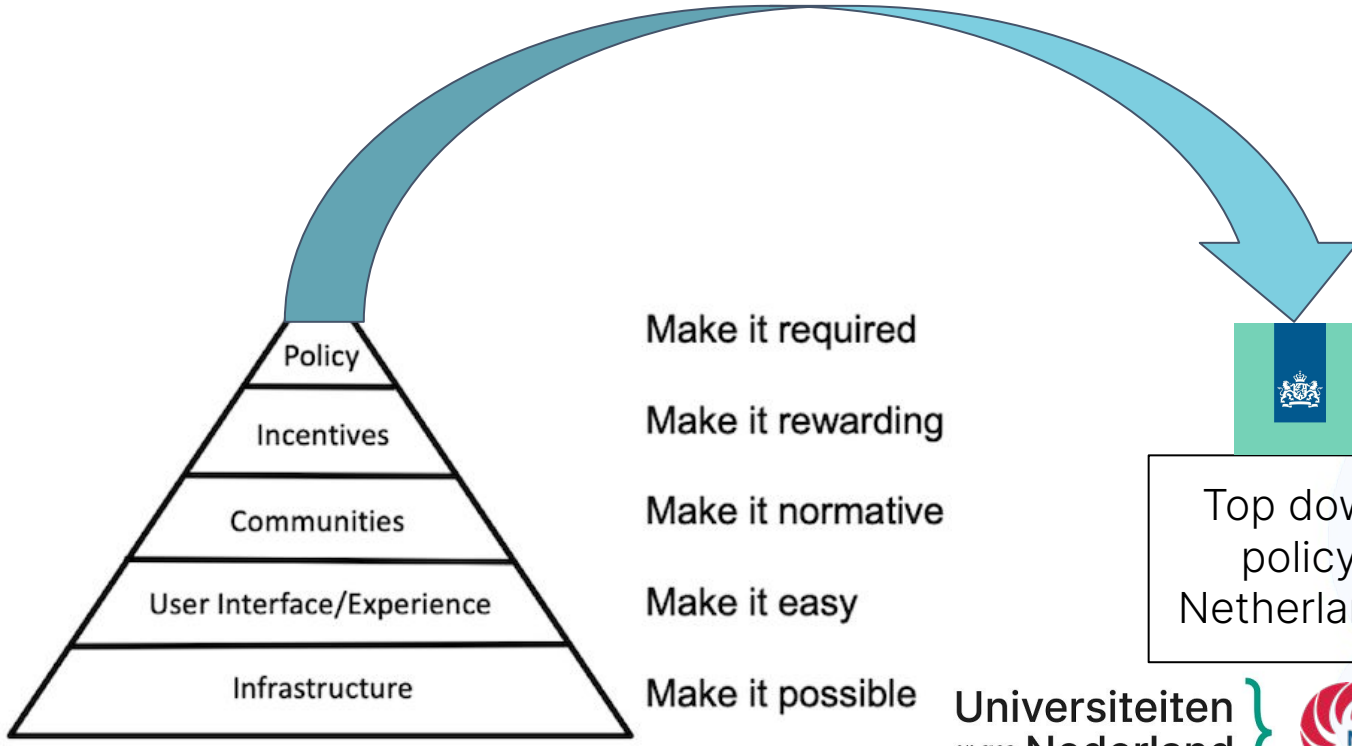
- Translations
- Plain language explanations
- Outreach beyond academia
- Open to questions from outside academia
- Curation and annotation of non-scholarly information
- Participation in public debate

and: Open education / Open source software / Open hardware / (no) patents

Based on: Bosman & Kramer (2017) Defining open science definitions

Open Access: how are we doing?

Policy: make it required



Top down policy Netherlands

Alignment

Top down international

Universiteiten van Nederland

NFU Nederlandse Federatie van Universitair Medische Centra

Science Europe

NWO

Vereniging Hogescholen

KNAW

Yerun

Plan S
Making full & immediate Open Access a reality

Ouvrir la science !

KB nationale bibliotheek

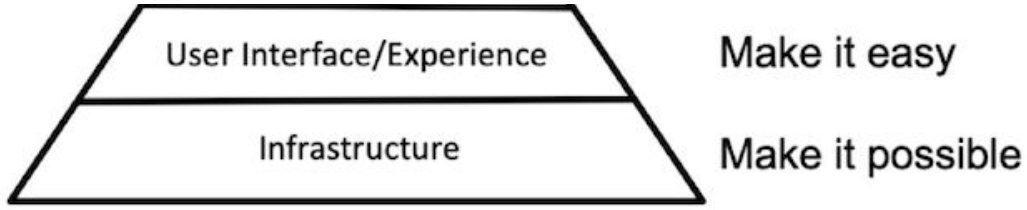
UKB Universiteitsbibliotheken & Nationale Bibliotheek

Open Science

allea All European Academies

Pyramid from: Brian Nosek: https://www.cos.io/blog/strategy-for-culture-change

User experience/infrastructure: make it easy & possible



Make it easy

Make it possible

Diamond
(=non-APC gold)

APC-based gold

Hybrid gold

Green

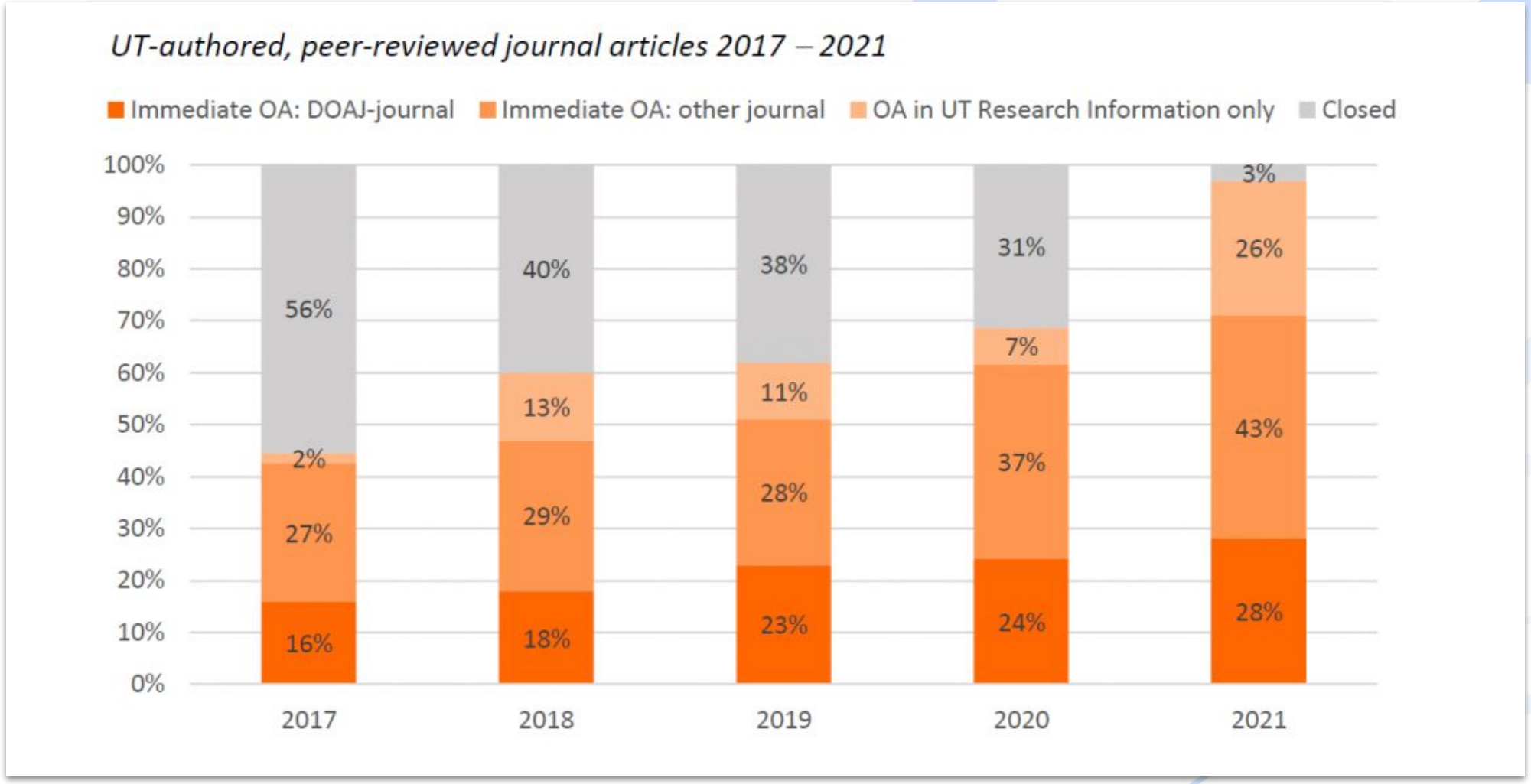
Universiteiten van Nederland

Universiteitsbibliotheken & Nationale Bibliotheek

NEDERLANDSE FEDERATIE VAN UNIVERSITAIR MEDISCHE CENTRA

Pyramid from: Brian Nosek: https://www.cos.io/blog/strategy-for-culture-change

Continuous growth



Graph provided by UT Team Open Access: www.utwente.nl/openaccess

Open Access: from quantity to...

change/disruption/innovation and... quality

Three trends

"The article is dead!"

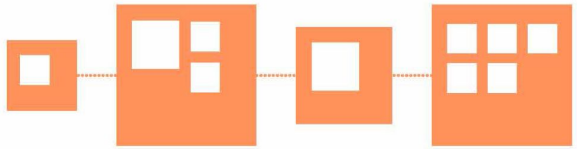
"The journal is dead!"

DEI in Open Scholarly Communication

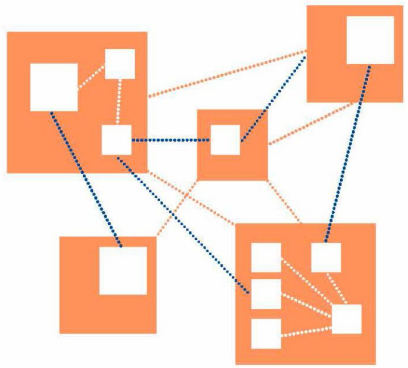
“The article is dead”

- From a ‘Version of Record’ (VoR) to a ‘Record of Versions’ (RoV)
- Scholarly Output means more than just a PDF

Linear



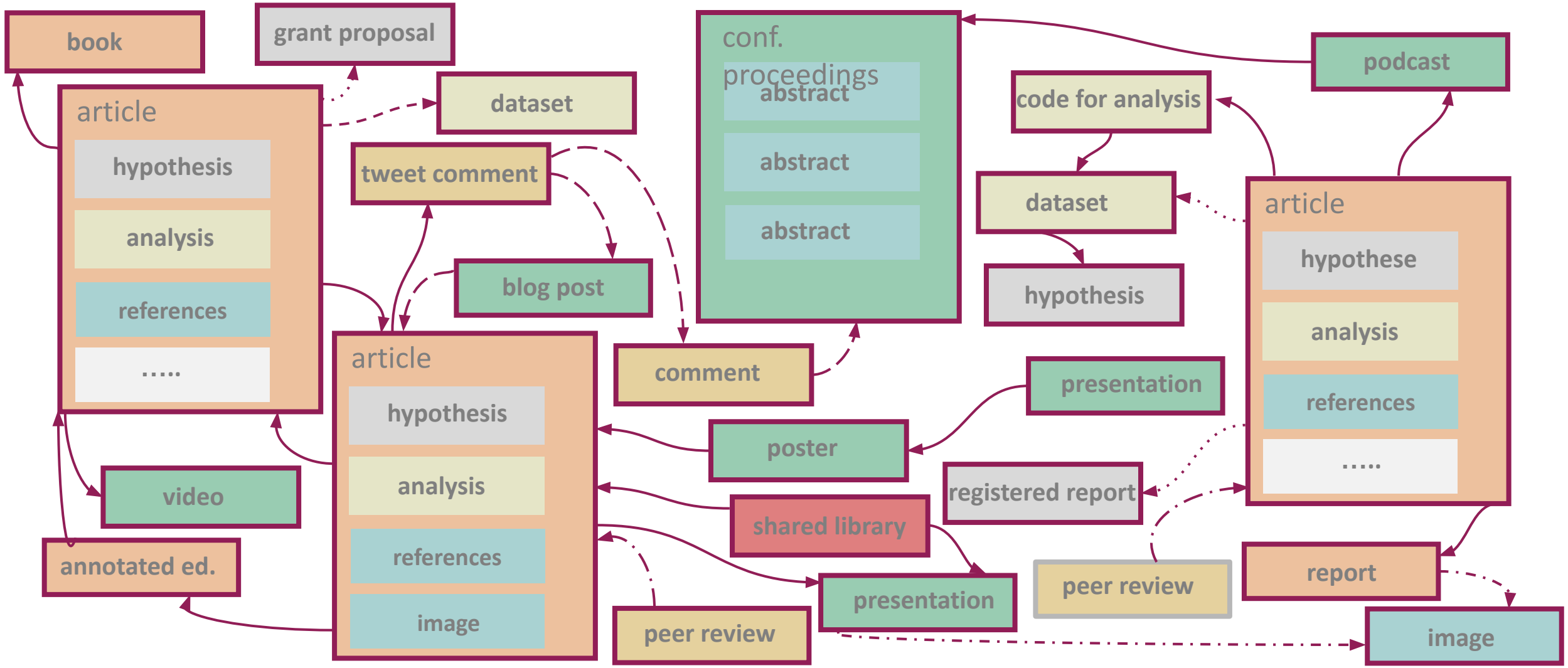
Modular



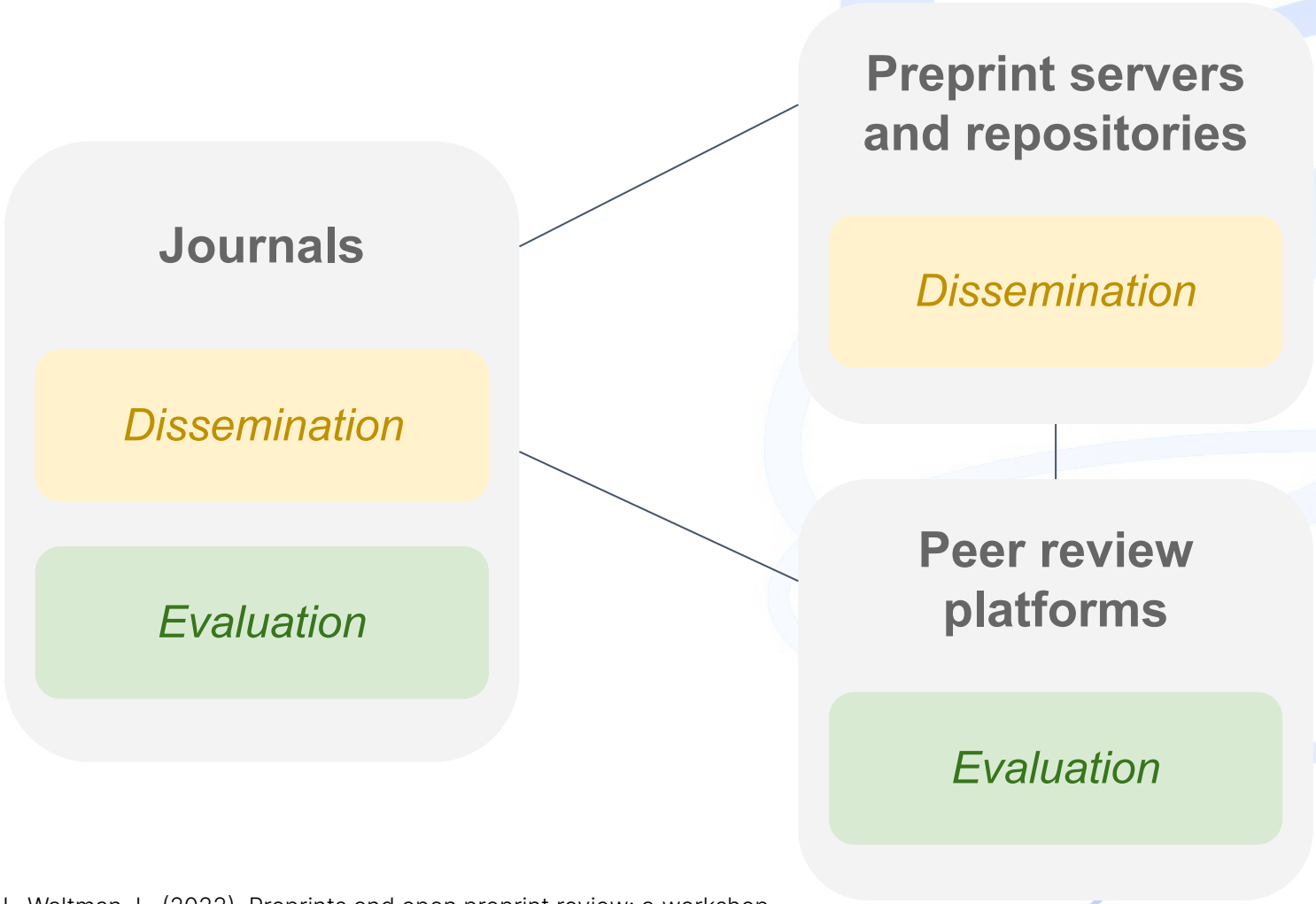
Octopus

“Octopus sets out to be the **new primary research record**: a place where researchers from all disciplines can freely record all of their efforts and findings without external requirements unduly shaping their outputs”

Many outputs are created (and linked)



“The journal is dead”



Bosman, J., Kramer, B., Sondervan, J., Waltman, L. (2022). Preprints and open preprint review: a workshop on innovations in scholarly publishing. DOI: https://doi.org/10.54900/c490m3r-r45gr6m

“The journal is dead” - the need for speed

Opening the peer review process

Preprints

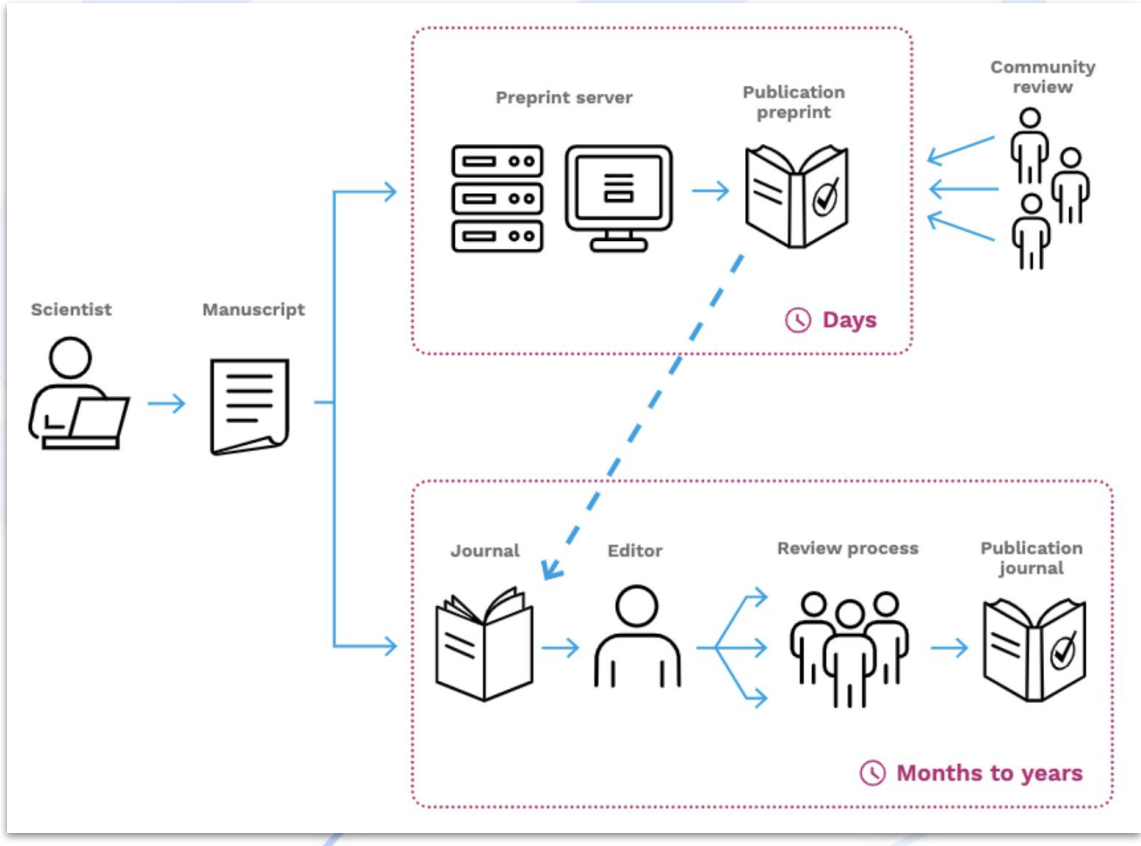
F1000Research

eLife

Open Research Europe
The open access publishing platform of the European Commission

PCI
peercommunityin.org

PREREVIEW



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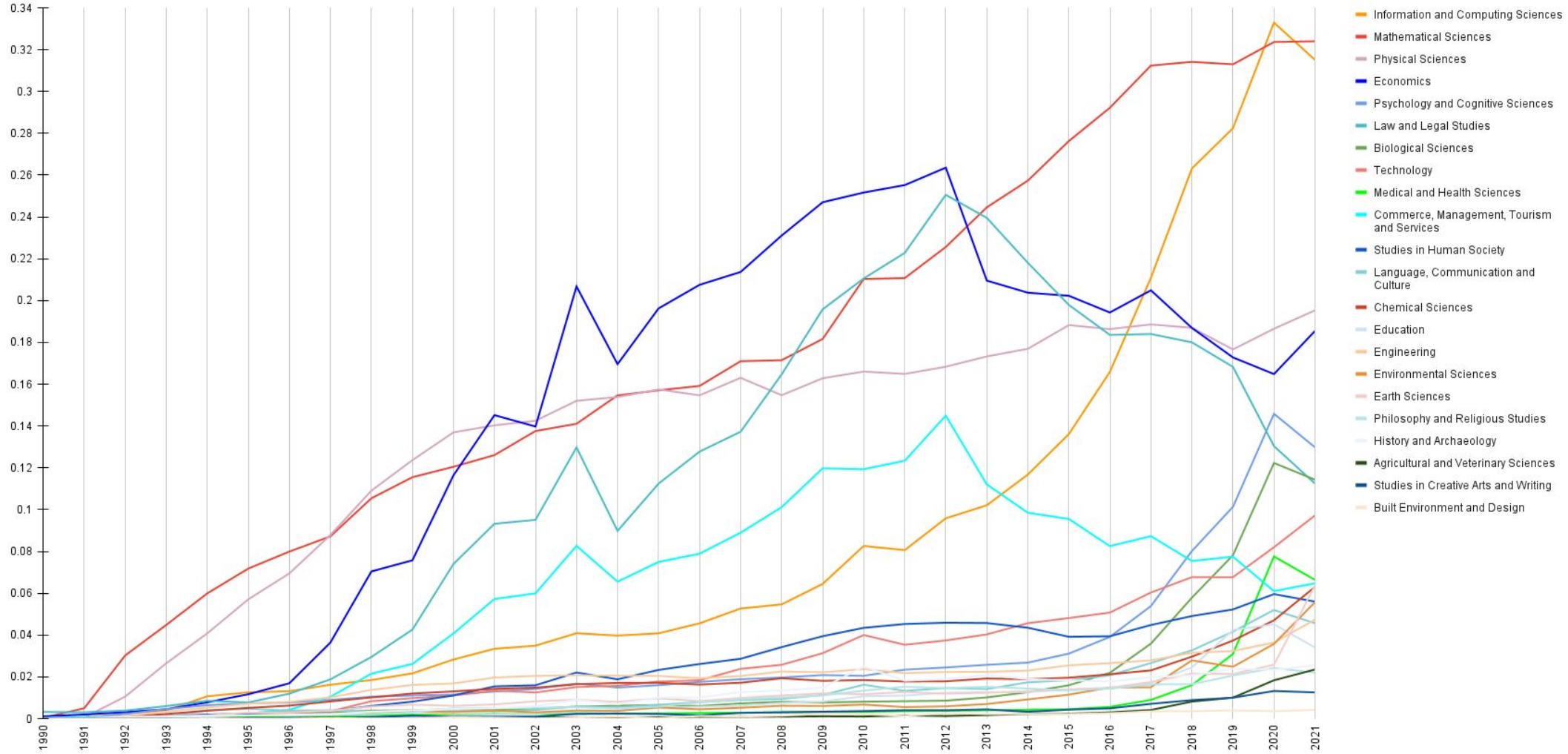
Preprint sharing relative to total article output, 1990-2021, by field

source: Dimensions; check date: 20210206, year 2021 updated 20220831



(non)-DEI in Open Scholarly Communication

Who and what is **(not)** participating?

- For-profit publishing is in the lead
- Growing consensus that the APC-model is not sustainable and only increases inequalities between the rich and poor authors, institutions, countries, and regions
- Read & Publish deals are exclusive and non-transformative
- Domestic (non-English) languages are squeezed out
- Primary focus on peer reviewed articles

State of affairs: models based on ownership

- Exclusion
- Lack of control
- IP & data exploitation

Publishers/
service providers
(the ‘market’)

Models based on services: taking back control and ownership

- Based on our values and principles for open science
- Digital sovereign
- Fair and transparent pricing

The ‘open’ academic community

Diversity, Equity and Inclusion in Open Scholarly Communication

Non-APC publishing models (Diamond OA) and open publishing infrastructure:

- Non-profit
- Scholar / community led (presses, social platforms, innovations with publishing in the entire research cycle
- New University Presses / Library-based OA initiatives and support
- National coordinated publishing platforms
- Open Research Europe

EU-funded projects

PALOMERA

CRAFT-OA

DIAMAS

More info: Adema, J. & Stone, G. Changing Publishing Ecologies, JISC report, 2017 & SPARC Europe Webinar: "Equity and Diversity In Open Access. National and Regional OA Publishing Platforms"

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openjournals.nl

ENG NL

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Journals

Pedagogische Studiën

Tijdschrift voor Gerontologie en Geriatrie

International Journal about Parents in Education

European Insolvency and Restructuring Journal

Journal of Political Sociology

Into the Magic Circle

Tijdschrift voor Hoger Onderwijs

Studies over de sociaaleconomische geschiedenis van Limburg

Technophany

Tijdschrift voor Jeugdgezondheidszorg

Passion

Aesthetic Investigations

Tijdschrift voor onderwijspraktijkstudies

Ecclesial Futures

Relief – Revue électronique de littérature française

Epilepsie

Handelingen

Early Modern Low Countries

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Council of the EU Press release 23 May 2023 10:27

Council calls for transparent, equitable, and open access to scholarly publications

Today the Council has adopted conclusions on the 'high quality, transparent, open, trustworthy and equitable scholarly publishing', in which it calls for immediate and unrestricted open access in publishing research involving public funds.

> If we really believe in open science, we need to make sure that researchers can make their findings available and re-usable and that high-quality scientific articles are openly accessible to anyone that needs to read them. This should be particularly the case for research that benefits from public funding: what has been paid by all should be accessible to all.
>
> — Mats Persson, Swedish Minister for Education, Ministry of Education and Research

Commercialization

Open Access Week 2023

Crucial piece of the puzzle

part 1: contextualising open access

Strategically connect OA with Open Science principles and values

- **Where do I publish?**

(recognition and rewards, public engagement)

- **What do I publish?**

(FAIR data & software/code, recognition and rewards, public engagement)

- **How often do I publish?**

(recognition and rewards)

- **How do I publish ‘open science’?**

(FAIR data & software/code, preprints, registered reports, open licensed)

- **How can I publish openly?**

(open education → ‘open’ skills

Crucial piece of the puzzle

part 2: communities – make it normative

Fostering thriving communities

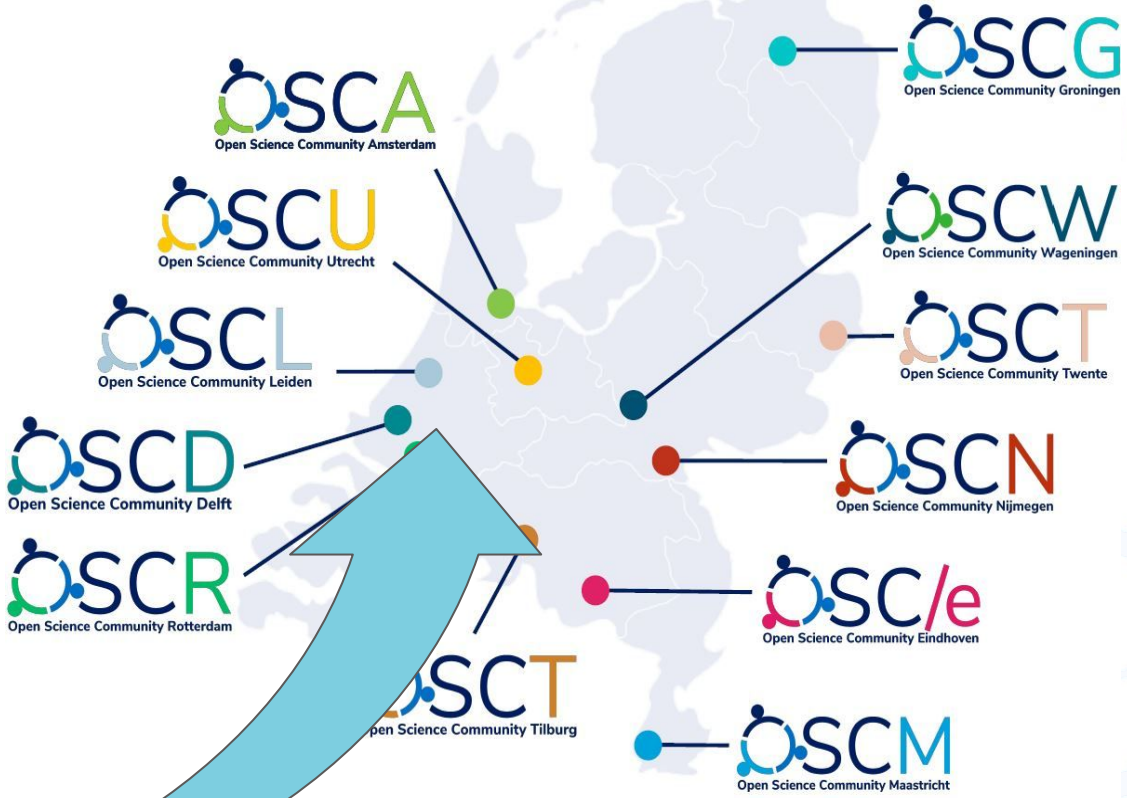
Make it required

Make it rewarding

Make it normative

Make it easy

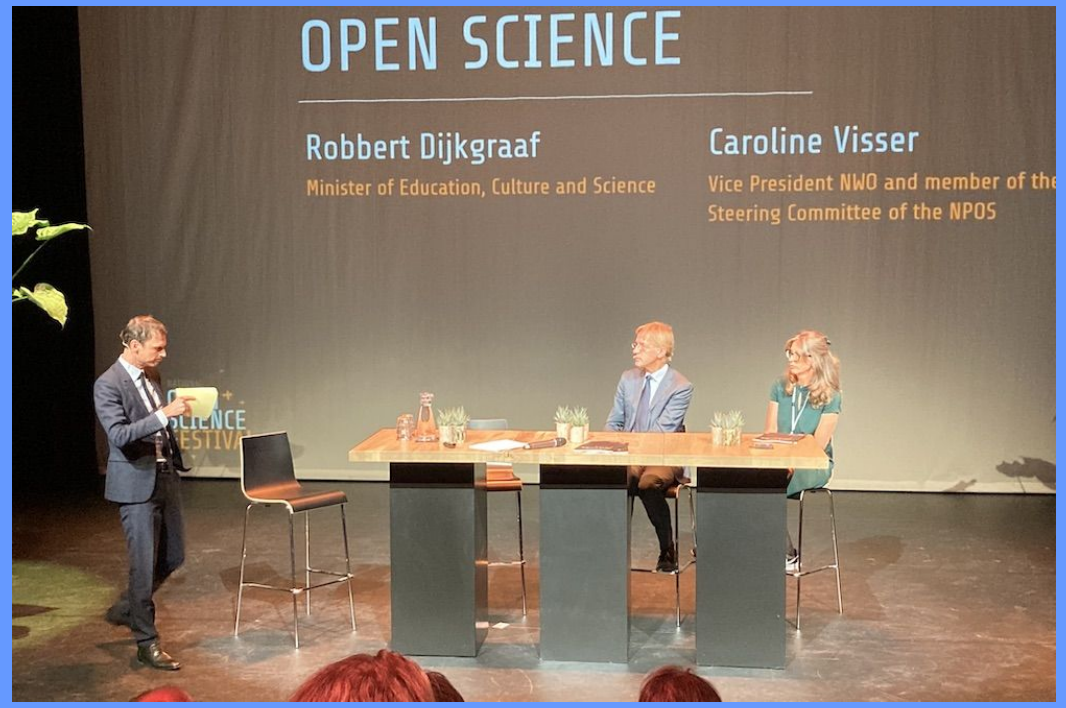
Make it possible



bottom-up

Crucial piece of the puzzle

part 3: incentives – make it rewarding



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""We have a publishing system where we do all the work. But all the money goes to one party"

"Since we have created the current recognition and rewards system in academia ourselves, it is also us who can change it."

Robbert Dijkgraaf, Minister of Education, Culture and Science

Quotes from: Open Science Festival 2022 / Recognition and Rewards Festival 2023

The Dutch Recognition & Rewards programme

- Universities
- University medical centers
- Research institutes
- Research funders

https://recognitionrewards.nl/

Evaluation of applicants at NWO

Removal of Journal Impact Factors and the H-index

Evidence-based CV

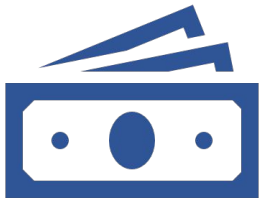
10 key outputs (incl. datasets, methodology, conference presentations, tools, workshop, etc)

Special attention to Open Science

https://www.nwo.nl/en/dora

Credit to: Robbert Hoogstraat, Kasper Gossink-Melenhorst

NWO Open Science Fund to stimulate and reward Open Science



€50,000 per project
Total €1.5M/year

Data management / software sustainability section

Open Science track record of the applicant

Proposals are published
Applicants review each other's applications

https://www.nwo.nl/en/calls/open-science-fund-2023
Beyond mandates: For open science to become a norm, it must be recognised and rewarded: https://blogs.lse.ac.uk/impactofsocialsciences/2020/12/01/beyond-mandates-for-open-science-to-become-a-norm-it-must-be-recognised-and-rewarded/
Credit to: Maria Cruz, Hans de Jonge, Sophie Schmidt, Stephanie Holst

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Change is coming

Open Science NL Team at NWO

Hans de Jonge
Director

Frederike Schmitz
Citizen Science & Societal Engagement

Maria Cruz
Open Research Software

Jeroen Sondervan
Open Scholarly Publishing

Marta Teperek
FAIR Data

Jeroen Scharroo
Communications Advisor

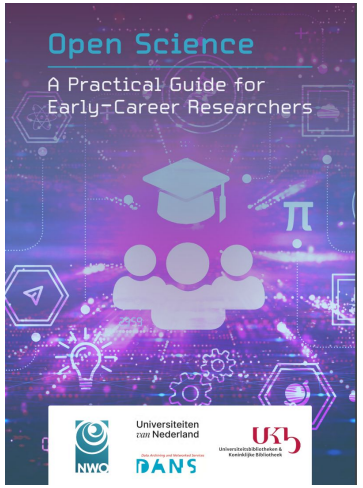
Mark van Assem
Programme Secretary

Merie Pelsser
Secretary

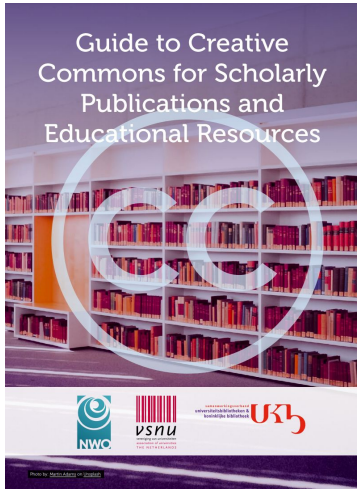
Rita Bihari
Assistant

For now: don’t panic! Help is on the way!

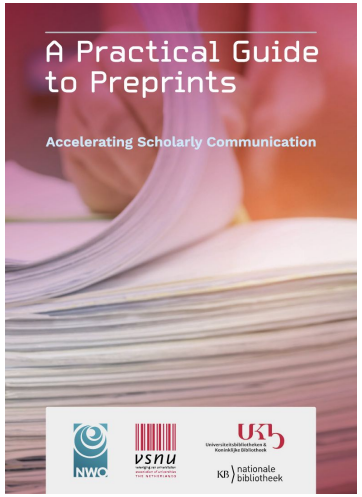
OS guide



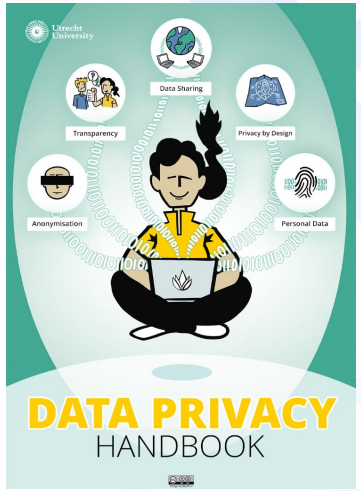
Licenses guide

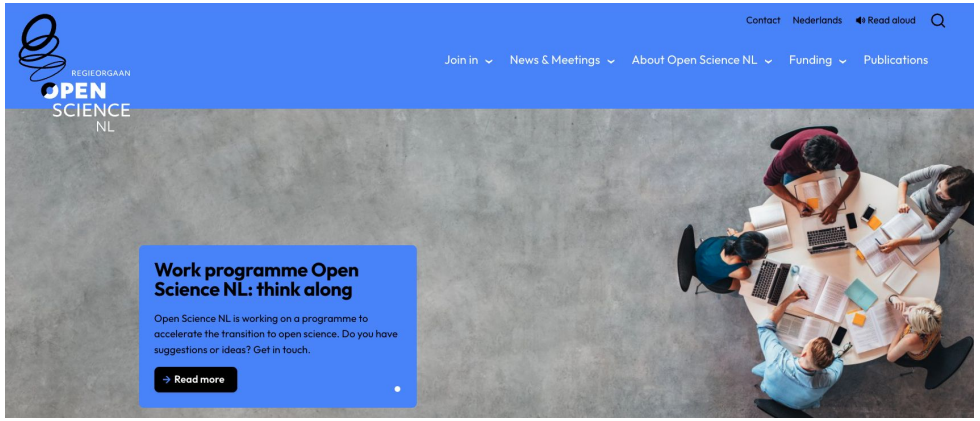


Preprint guide



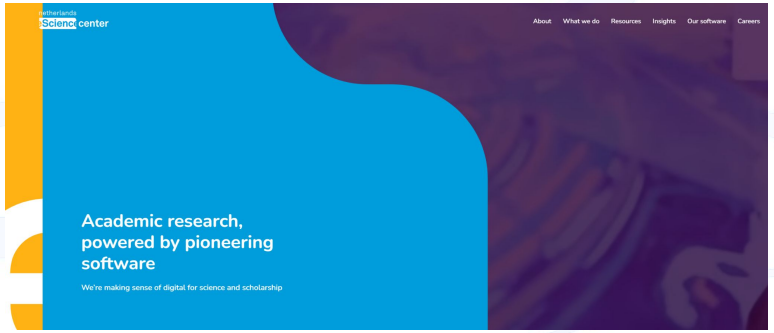
Data privacy hbk.





open access.nl

Open access publiceren? Kijk welke afspraken er zijn met



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Thank you!

Jeroen Sondervan, j.sondervan@nwo.nl
www.openscience.nl

Credits to colleagues at OpenScience NL for (re)using some of their slides

Slides: https://tinyurl.com/OSDTwente