MAX PLANCK INSTITUTE
FOR EVOLUTIONARY ANTHROPOLOGY

Intro to Open Science

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AGENDA

1 Why is Open Science important?

2 What is Open Science?

3 How can I practice Open Science?

Why is Open Science important?

Why?

Researchers

- greater visibility & reach
- increased efficiency
- funding
- collaboration/networking

Funders

- increased visibility & reuse of funded research
- greater funding impact
- greater ROI

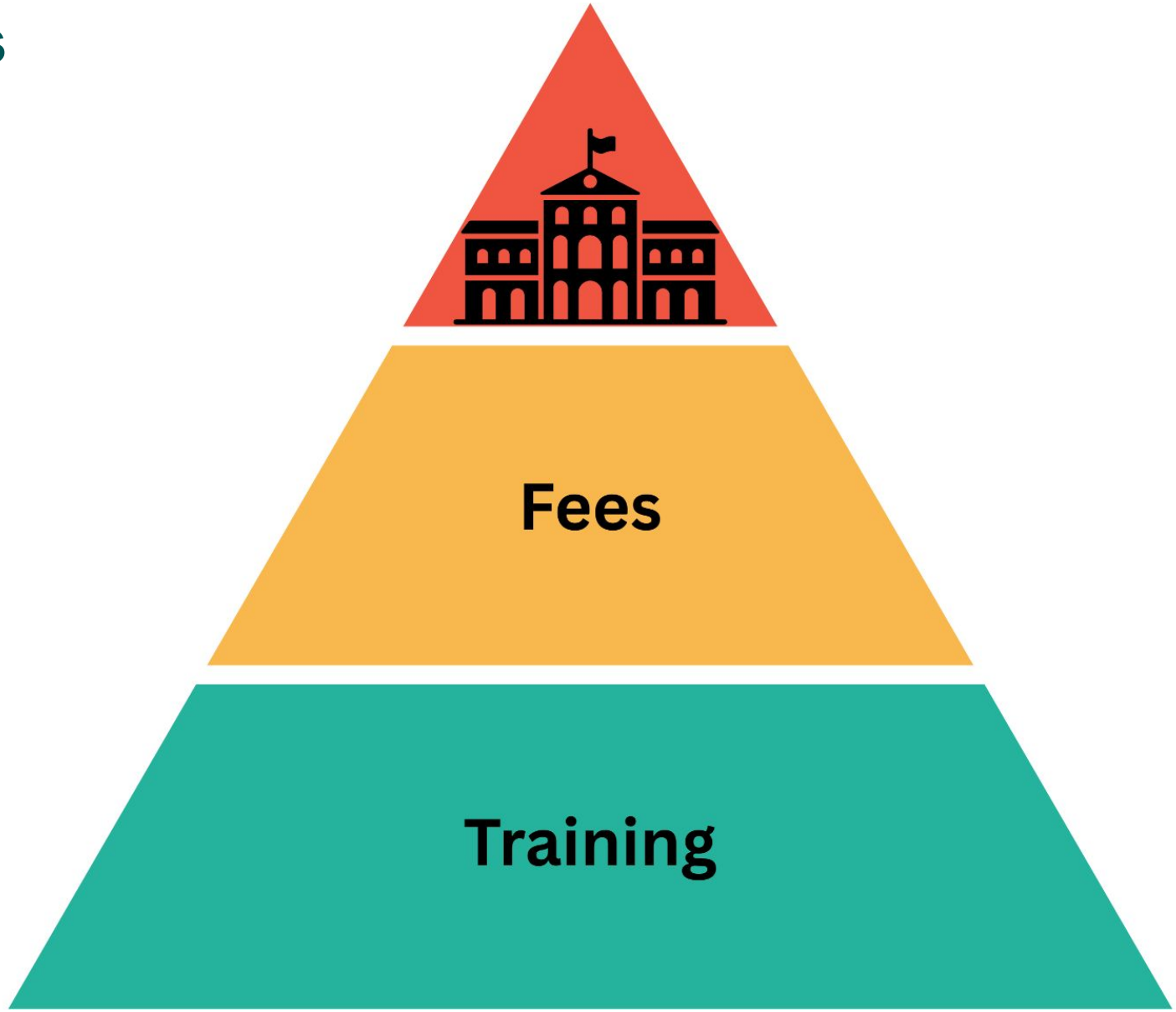
General Public

- faster knowledge transfer
- increased understanding and expertise
- promoting engagement in science & research

Additional Reasons

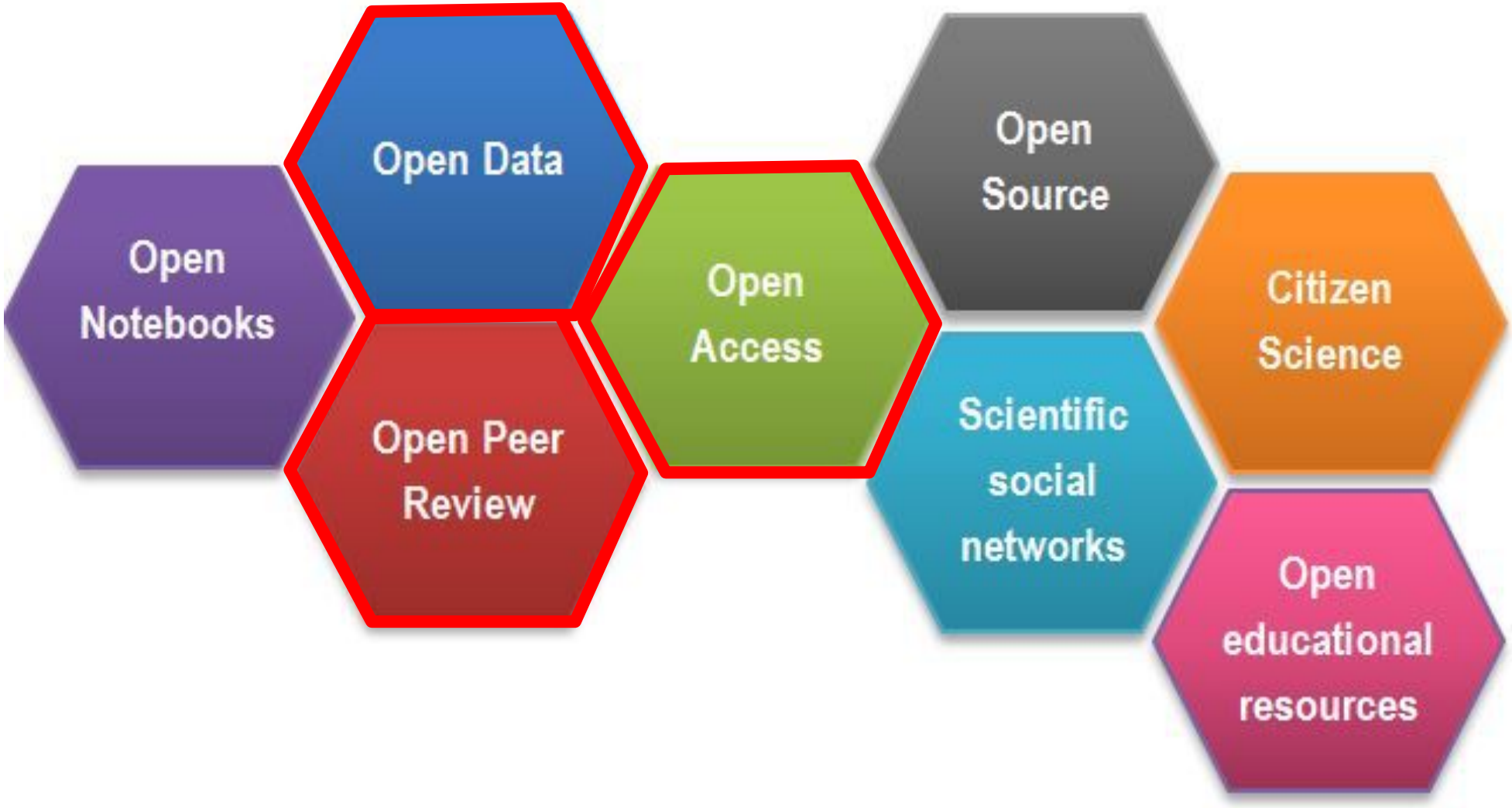
- Reproducibility crisis and trust in science
  - You are working for the general public.
- Equity in knowledge access
  - Every researcher in the world should be able to review your work.
- Citations
  - Open access articles are cited more frequently.

Challenges

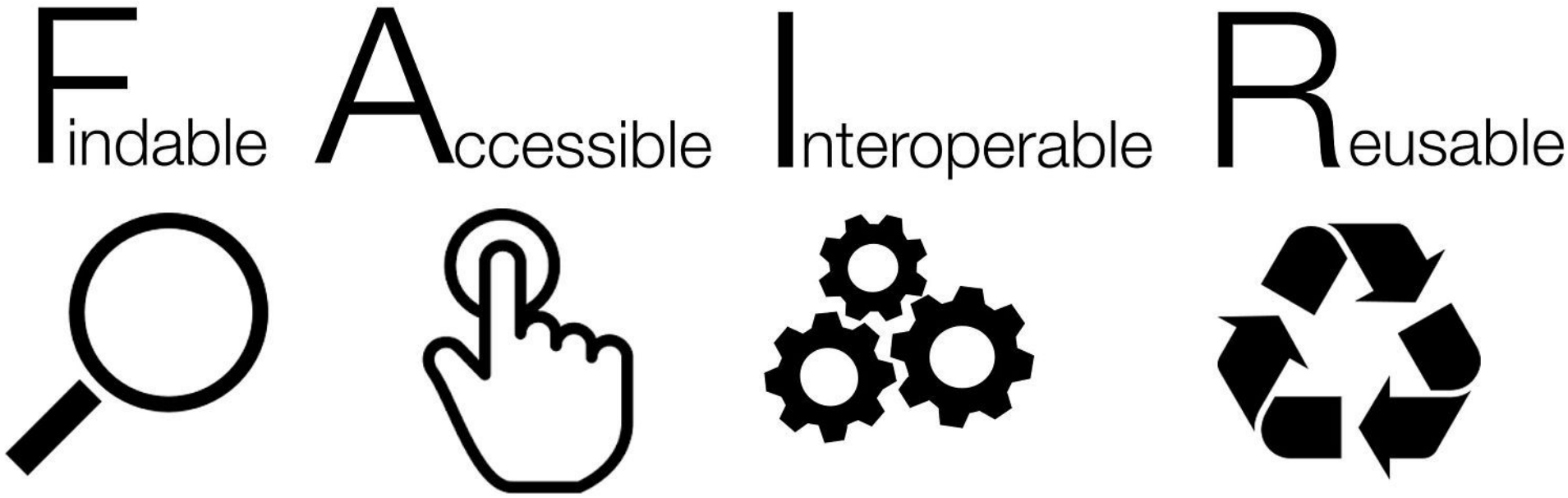


What is Open Science?

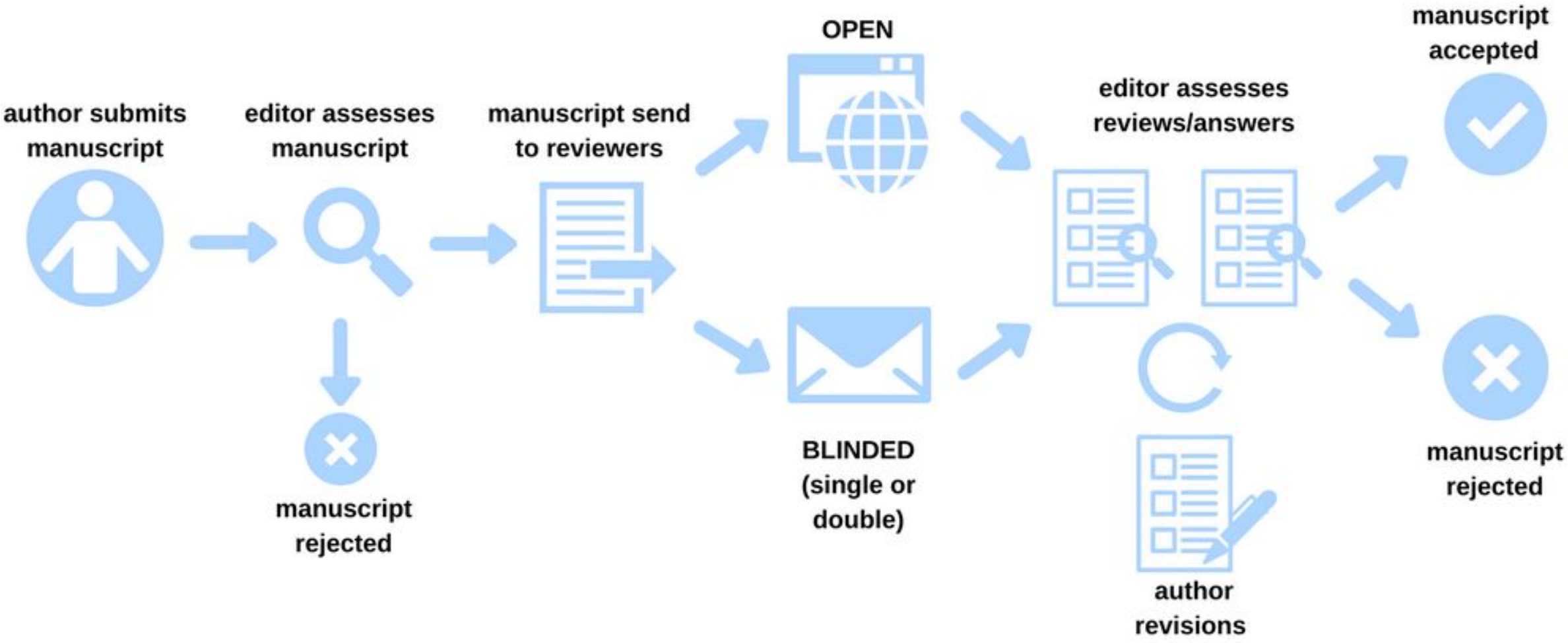
Open Science Building Blocks



Open Data



Open Peer Review



Open Access

Good Information supply

Fair and transparent use of taxpayers' money

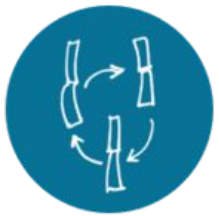
Free and fast access to scholarly information

New methods, new knowledge

High visibility

Research funders' and institutions' policies

Collaboration & networking

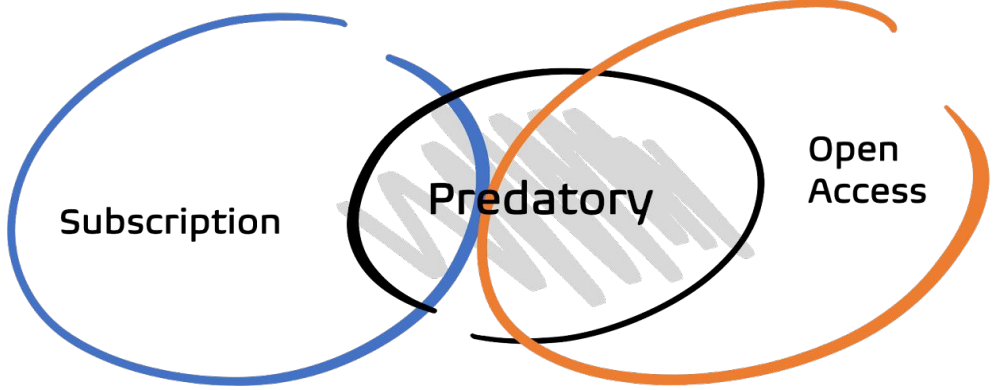


Authors free to license their works as they see fit

Good findability & long-term access

Efficient research & innovation

Caution — Predatory Journals



- Accept articles quickly with little or no peer review.
- Notify researchers of article fees only after papers are accepted.
- Aggressively campaigning for researchers to submit articles or serve on editorial boards.
- Mimic the name or website style of more established journals.

Open Science Life Cycle

Open Science Life Cycle

Notion

MENDELEY

zotero

Open Science Life Cycle

Open Science Life Cycle

Open Science Life Cycle

Open Science Life Cycle

Open Science Life Cycle

How can I practice Open Science?

Where to start?

Next steps

- Share code/data
- Publish preprints
- Join Open Science communities (e.g., FORRT, OLS)
- Advocate for Open Science

THANK YOU FOR YOUR ATTENTION

If you have questions, feel free to send me an email:

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BlueSky: https://bsky.app/profile/annikatjuka.bsky.social

Appendix

Examples

- https://github.com/concepticon/norare-data
- https://arxiv.org/abs/2503.11377
- https://open-research-europe.ec.europa.eu/articles/2-141/v3
- https://orcid.org/0000-0003-3678-1817
- https://annikatjuka.github.io/talks
- https://calc.hypotheses.org/
- https://openevo.eva.mpg.de/teachingbase/the-evolution-of-language/

Resources

- Open Science in Practice: https://osip.mpdl.mpg.de/
- https://open-access.network/en/home

- Directory of Open Access Books (DOAB): https://www.doabooks.org/
- Directory of Open Access Journals (DOAJ): https://doaj.org/
- https://www.predatoryjournals.org/the-list
- https://thinkchecksubmit.org/

Further Reading

- https://unesdoc.unesco.org/ark:/48223/pf0000383323
- Open Science Handbook: https://openscientist.pubpub.org/pub/play/release/5
- Méndez et al. (2023). Ethics and Responsible Research and Innovation in Practice: The ETHNA System Project, 203–223. Cham: Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-33177-0_13.
- Ghai et al. (2025). A Manifesto for a Globally Diverse, Equitable, and Inclusive Open Science. Communications Psychology 3(1). 1–9. https://doi.org/10.1038/s44271-024-00179-1.
- Wilkinson et al. (2016). The FAIR Guiding Principles for Scientific Data Management and Stewardship. Scientific Data 3(1). 1–9. https://doi.org/10.1038/sdata.2016.18.

Preprint Servers

- arXiv
- AfricArXiv
- OSF Preprints
- Knowledge Commons
- LingBuzz
- PsyArXiv
- Audio and Video
  - The Language Archive (TLA)
  - Endangered Languages Archive