Open Science at HZDR

20.03.2025

HELMHOLTZ ZENTRUM
DRESDEN ROSSENDORF

DRESDEN concept

Teaching / promoting Open Science

at Helmholtz

- **Open Science Office** offers
  - workshops, events and publications
- Implementation of **Data and Software Indicators**
- **Open Science Policy** in 2022
  - Open Science thus becomes the standard of publication practice.
  - Recommendation of CC BY 4.0
- **Incubator Platforms**
  - Community building through **Helmholtz Metadata Collaboration**

at HZDR

- Rules for Good scientific practice
- Publication Directive
- Data and Software Policies
- Consultations and workshops on RDM
- Data and Software Management Days
- Training courses on the use of ROBIS and RODARE
- New: Information events for new employees
- SaxFDM - Digital Kitchen

DRESDEN
concept
SCIENCE AND
INNOVATION CAMPUS

HZDR

Open Science Support at HZDR

OS at HZDR is basically located at **Department of Information Services and Computing**

OS Personal Support and Development

- Working Group "Research Data Management"
- Working Group "Scientific Data Management"
- Publication Management
- Working Group OSPO – Open Source support at HZDR
- Beamline Scientists

OA Services and Tools

- Research Data Repository RODARE
- Publication Repository ROBIS
- Publication funds
- Transformative and HZDR OA Agreements
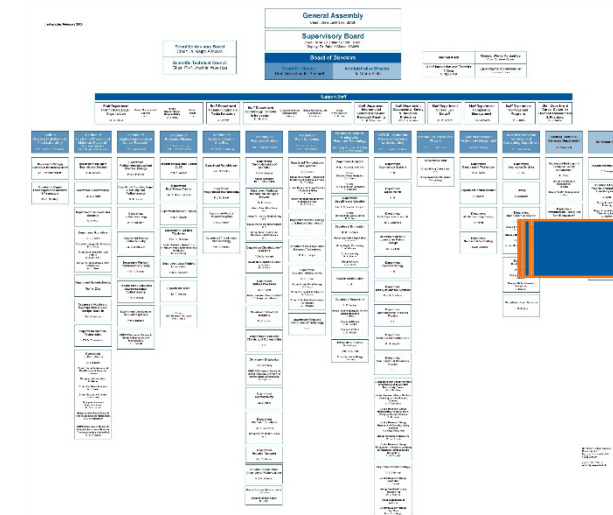
Central Information Services and Computing Department
Dr. Uwe Konrad

Department Application Services
A. Rex

Library
J. Grzondziel

Department Computational Science
Dr. G. Juckeland

Group Artificial Intelligence
Dr. P. Steinbach

Group Data Management and HPC
Dr. O. Knodel

Group Software Engineering
T. Huste

Department IT-Infrastructure
Dr. H. Schulz

Group Data Networks
I. Holstein

Group High Performance Computing
M. Lokamani

Department User Services
O. Ruddigkeit

Publication Workflow

Publication Workflow at HZDR
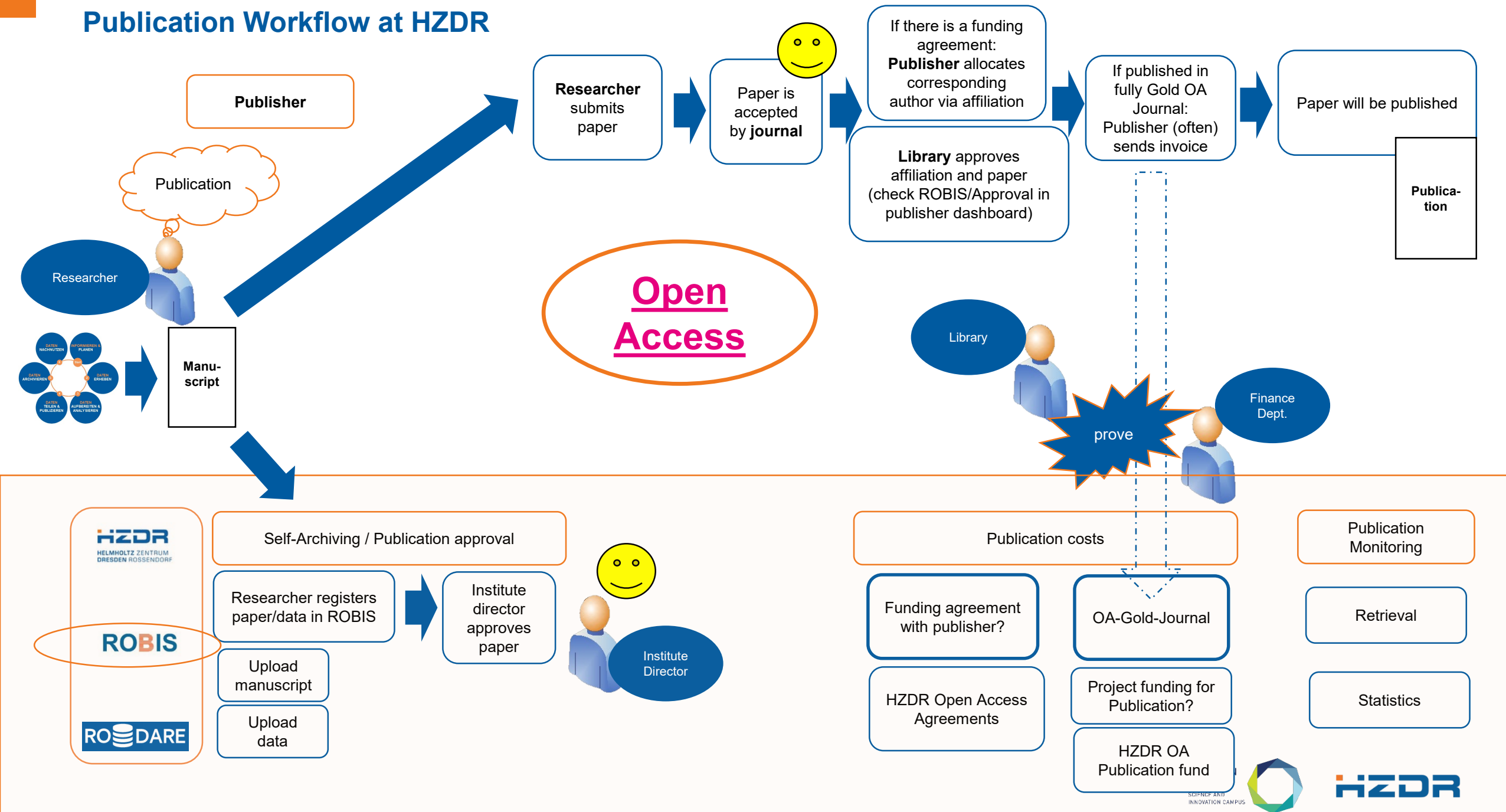
Open Access

Short glossary concerning publication colours and other terms

Closed Access – classical subscription model: The author doesn't pay for publication – access has to be payed (Institution subscribes journals)

Open Access – Access to the article is free for everyone. There is often a fee for publication.

Gold Open Access – The article is free from date of publication. Generally/often there is a fee for such a publication (article processing charge (APC), etc.)

Green Open Access – Self-archiving (secondary publication), explained https://www.berlin-universities-publishing.de/en/beratung/zweitveroeffentlichung/index.html

Hybrid Journals – In those journals researchers can decide whether they want to publish gold OA (and pay a fee) or closed (without paying a fee). Funding agreements often comprise that the institution covers publication fees.

Attention! HZDR only covers publication fees in hybrid journals if there exists a funding agreement with the publisher (e.g. DEAL contracts with Elsevier, Springer, Wiley or contract with ACS)

Gold, green, hybrid ????

https://blogs.tib.eu/wp/tib/2018/10/24/gold-gruen-bronze-blau-die-open-access-farbenlehre/

https://openeconomics.zbw.eu/en/knowledgebase/the-meaning-of-the-different-types-and-colours-of-open-access/

HZDR Publication Directive
(HZDR Instruction No. B 213)

DRESDEN
concept
SCIENCE AND
INNOVATION CAMPUS

HZDR

OPEN ACCESS agreements with publishers

AAAS	AAAS - American Association for the Advancement of Science	2020-2026
ACS	ACS - American Chemical Society	2023-2025
AIP	AIP – American Institute of Physics	2021-2026
APS	APS - American Physical Society	2025-2028
Cambridge University Press	Cambridge University Press	2022-2027
Copernicus	Copernicus Publications	since 2012
Elsevier	Elsevier	2024-2028
frontiers	Frontiers	since 2015
IOP	IOP - Insitute of Physics incl. ECS	since 2019
Karger	Karger	2021-2026
MDPI	MDPI	since 2014
nature	Nature	2021-2028
Royal Society of Chemistry	RSC Platinum	2024-2027
Sage	SAGE	2021-2025
SCOAP³	SCOAP3 - Sponsoring Consortium for Open Access Publishing in Particle Physics	since 2013
SPRINGER NATURE	SpringerNature	2020-2028
WILEY	Wiley	2019-2028

Data Publication in RODARE

Data Repository RODARE   https://rodare.hzdr.de/

Workflow Data/Software Publication at RODARE

Recording Metadata in ROBIS and Publishing Research Data in RODARE
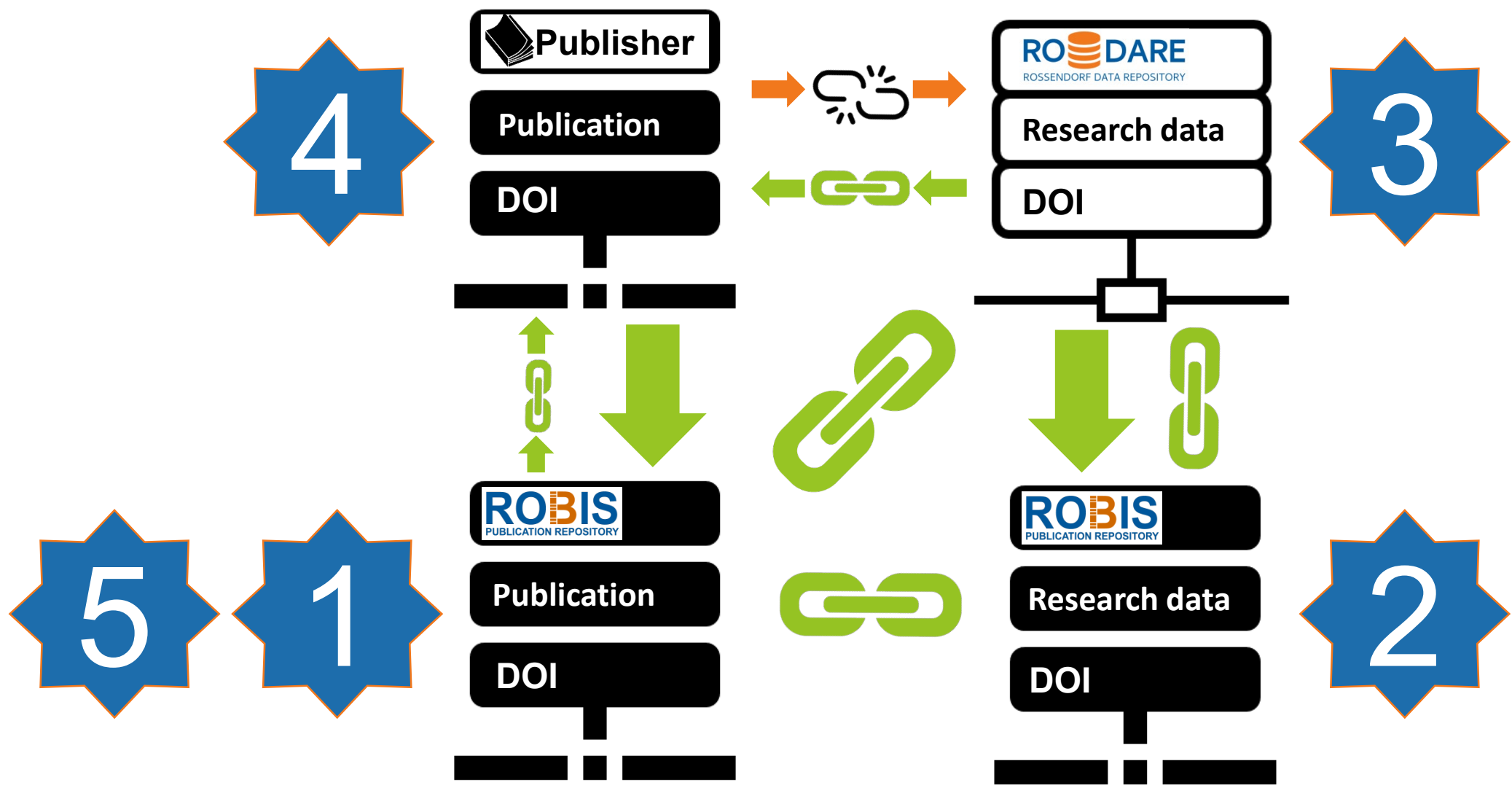
Statistics

Articles in ref. Journals, WoS-/Scopus-cited OPEN ACCESS (PoF IV)
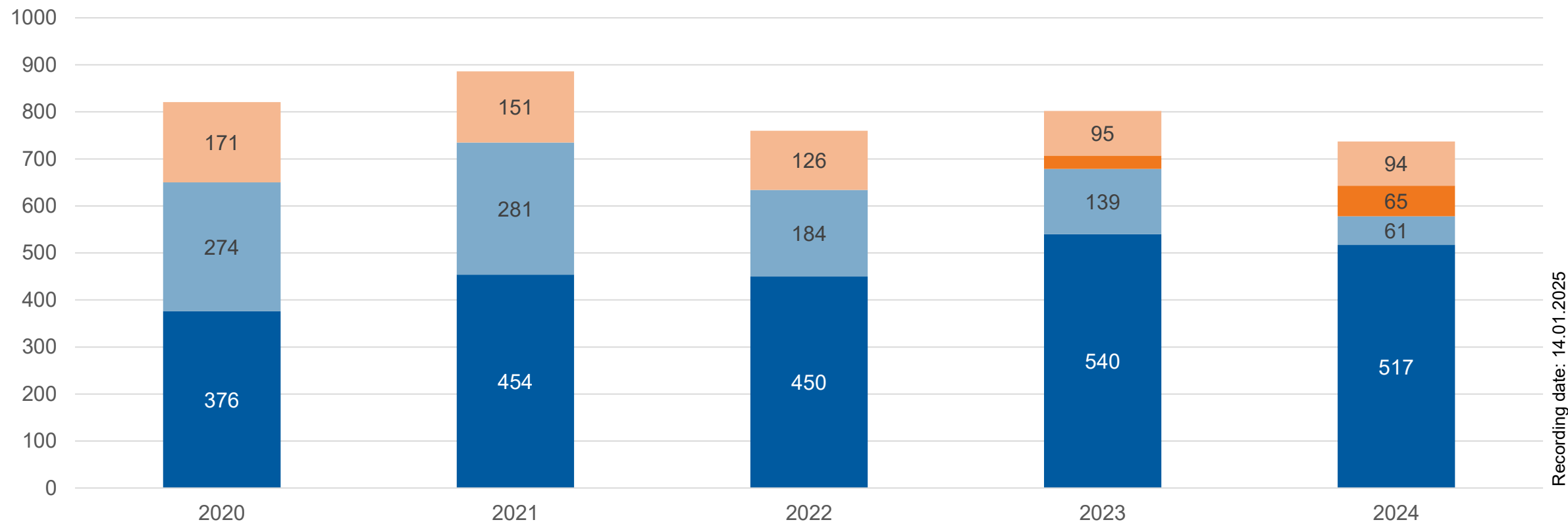
Recording date: 14.01.2025

Legend:
- not Open Access
- Candidates for Open Access green (embargo period not yet expired)
- Open Access green (Secondary publication or link to open access repository)
- Open Access gold

Year	Open Access gold	Open Access green	Candidates for OA green	not Open Access
2020	376	274		171
2021	454	281		151
2022	450	184		126
2023	540	139		95
2024	517	61	65	94

Publication of Research Data / Software (cumulated)
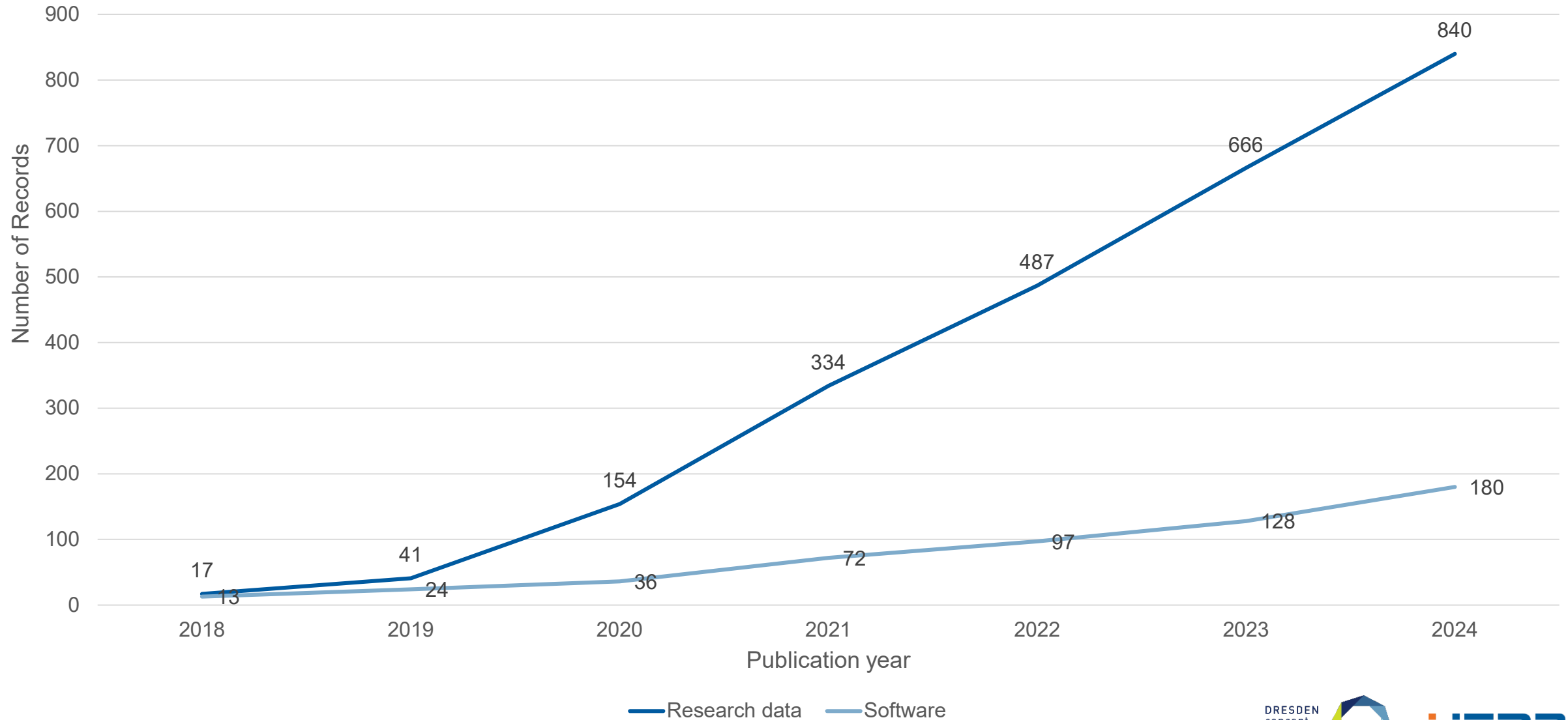
Open Science - Research Data and Software
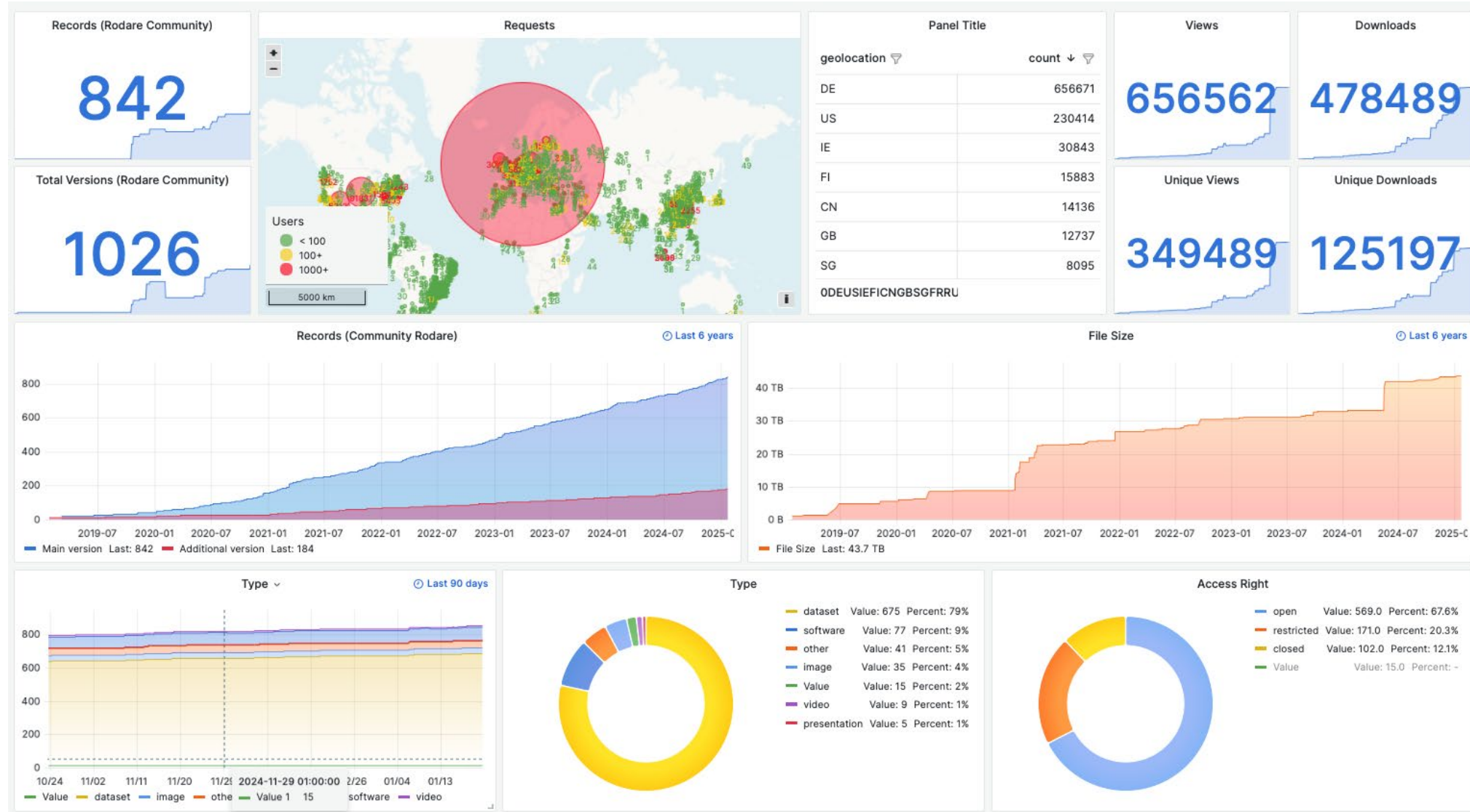
Other

Helmholtz Association and due diligence in the context of Open Science
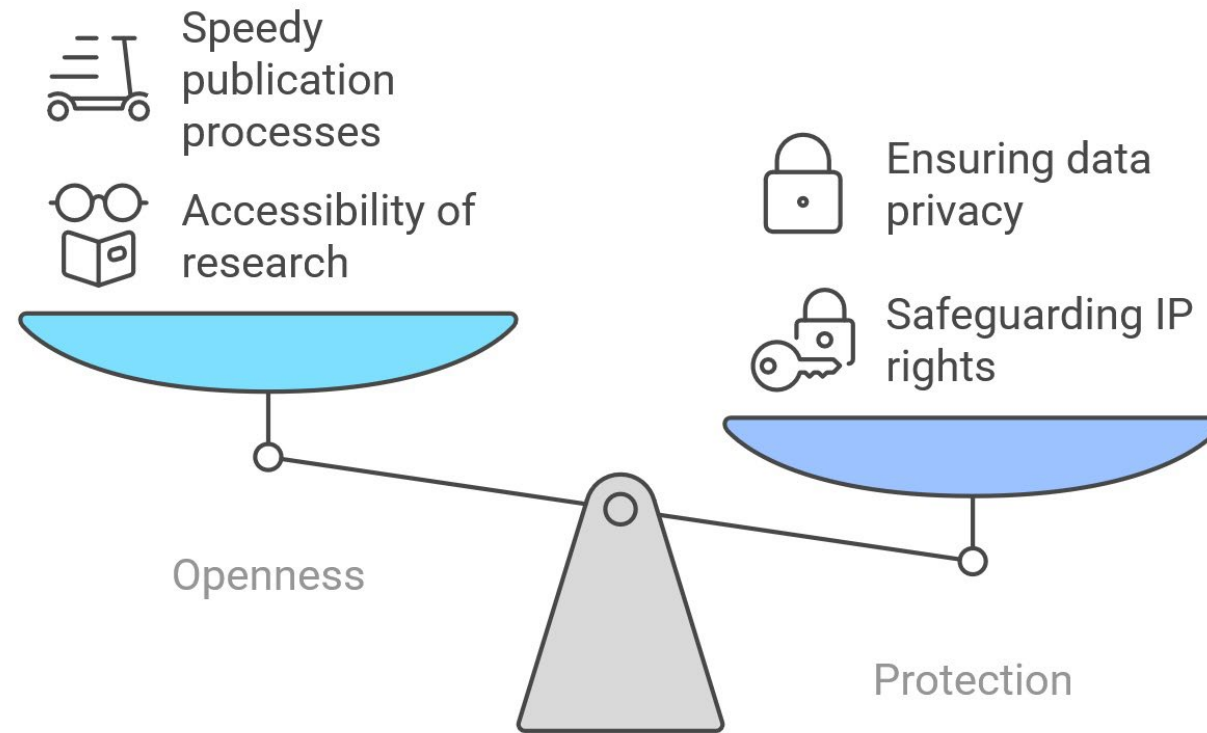
'as open as possible, as closed as necessary'

Speedy publication processes

Accessibility of research

Ensuring data privacy

Safeguarding IP rights

Openness

Protection

Balancing Openness and Protection in Open Science