

# Presentation of the Helmholtz Open Science Office

Speaker

Helmholtz Association

Helmholtz Open Science Office

Event, Date

# Content

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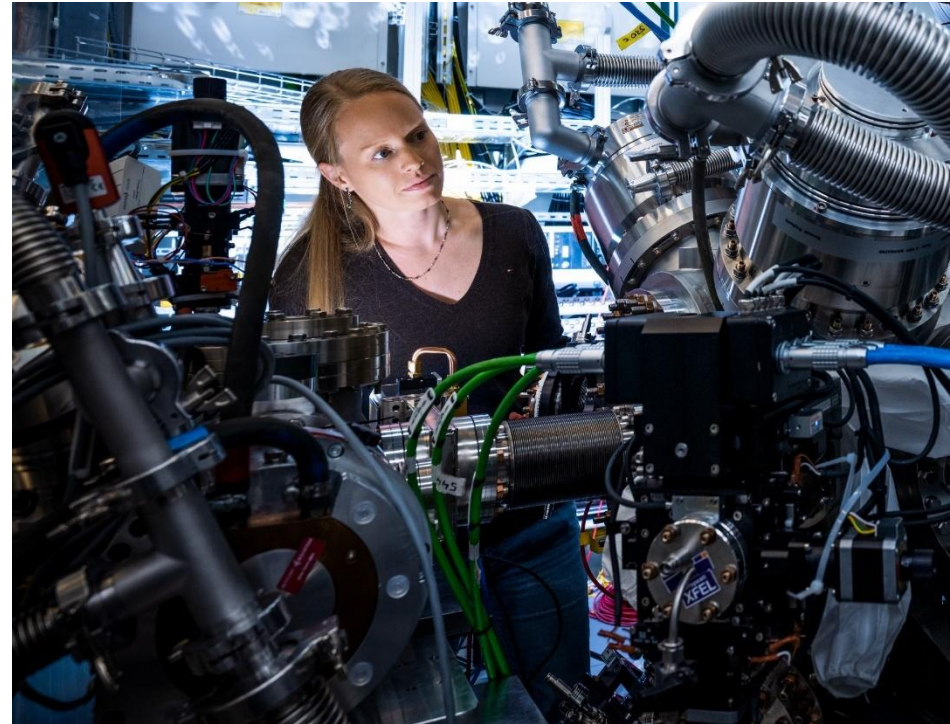
- Helmholtz Association
- Helmholtz Open Science Office
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Helmholtz Association

# Helmholtz Research Mission and Strategy

## Research for Grand Challenges

- Systems solutions for grand challenges based on:
  - Scientific excellence
  - Interdisciplinarity and critical mass
  - long term research programs
- Helmholtz provides a highly attractive environment for talents and brilliant brains
- Profound expertise in large scale research infrastructure
- Helmholtz as a prime strategic partner at the local, national and international level
- Transfer of knowledge into economy and society



# The six research fields of the Helmholtz Association

Energy



Earth and  
Environment



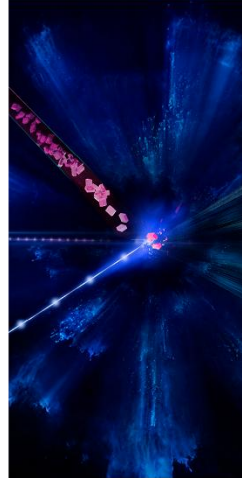
Health



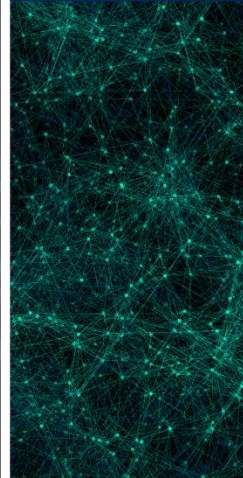
Aeronautics,  
Space  
and  
Transport



Matter



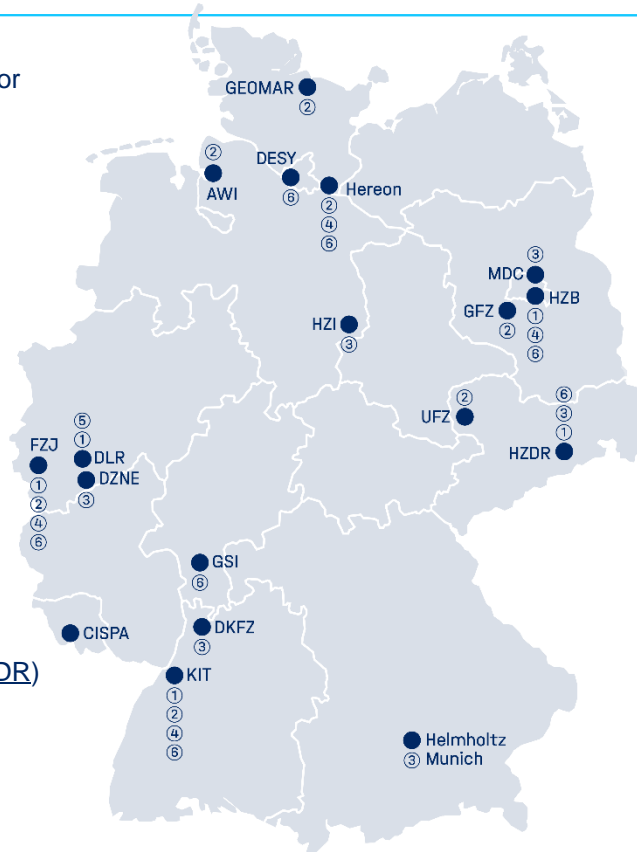
Information



# Helmholtz research centers

## 18 centers in 6 Research Fields

- Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research ([AWI](#))
- [CISPA](#) – Helmholtz Center for Information Security
- Deutsches Elektronen-Synchrotron [DESY](#)
- Forschungszentrum Jülich ([FZJ](#))
- [GEOMAR](#) Helmholtz Centre for Ocean Research Kiel
- German Aerospace Center ([DLR](#))
- German Cancer Research Center ([DKFZ](#))
- German Center für Neurodegenerative Diseases ([DZNE](#))
- [GSI](#) Helmholtz Center for Heavy Ion Research
- Helmholtz Center Dresden Rossendorf ([HZDR](#))
- Helmholtz Center for Environmental Research – [UFZ](#)



- Helmholtz Center for Infection Research ([HZI](#))
- [GFZ](#) Helmholtz Centre for Geosciences
- [Helmholtz Munich](#)
- Helmholtz-Zentrum Berlin für Materialien und Energie ([HZB](#))
- Helmholtz-Zentrum Hereon
- Karlsruhe Institute of Technology ([KIT](#))
- Max Delbrück Center ([MDC](#))

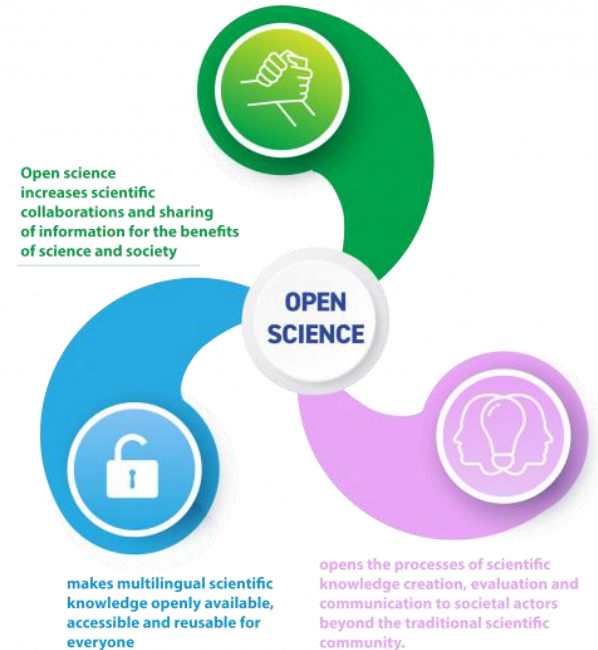
### Research Fields:

- (1) Energy, (2) Earth and Environment
- (3) Health, (4) Information
- (5) Aeronautics, Space and Transport, (6) Matter

Helmholtz Open Science Office

# Open Science

- Cultural change in scientific working methods, organization, and communication.
- Consistently employs digitization to make all components of the scientific process (publications, research data, research software, etc.) open, traceable, reusable, and accessible to everyone (in terms of reducing technical, legal, and financial hurdles).
- Expands transparency and the possibilities for quality assurance, increases the performance of science, and promotes innovations based on scientific findings.
- The development of open science differs in levels of extent in the research fields of the Helmholtz Association, depending on the discipline and respective publication culture.

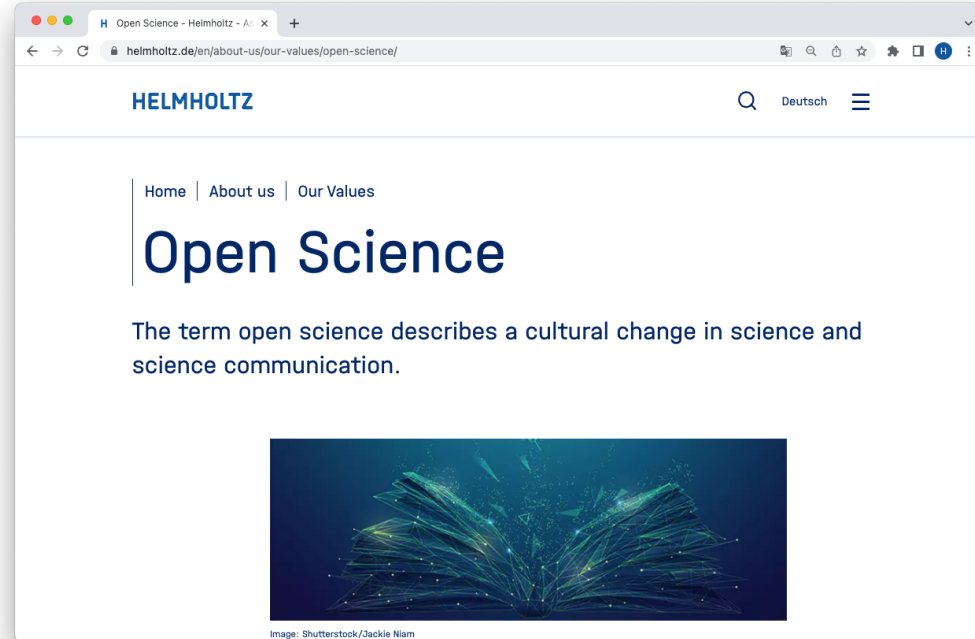


UNESCO Recommendation on Open Science  
<https://doi.org/10.54677/MNMH8546>



# Open Science at Helmholtz

- Open Science is an important cross-cutting topic with numerous points of contact
- In the Centers:
  - Digitalisation, research infrastructures, libraries, data centers, transfer, etc.
- In the entire Association:
  - Digitalisation, KPIs, Helmholtz Inkubator Information & Data Science, Initiative and Networking Fund, transfer, etc.



<https://www.helmholtz.de>

# Helmholtz Open Science Office: Mission

## Enabling Open Science practices at Helmholtz!

- The Helmholtz Open Science Office
  - supports the Helmholtz Association and its research Centers in shaping the cultural change towards Open Science
  - promotes dialogue and provides impulses within the Association.
  - offers information and support concerning all aspects of Open Science.
  - cooperates with the centers in the Open Science working group and in joint task groups.
  - represents Helmholtz positions on Open Science on a national and international level.

**HELMHOLTZ**  
**Open Science**

# Helmholtz Open Science Office:

## Schwerpunktthemen 2025/2026

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Publishing  
Open Science



Open Science  
Infrastructures

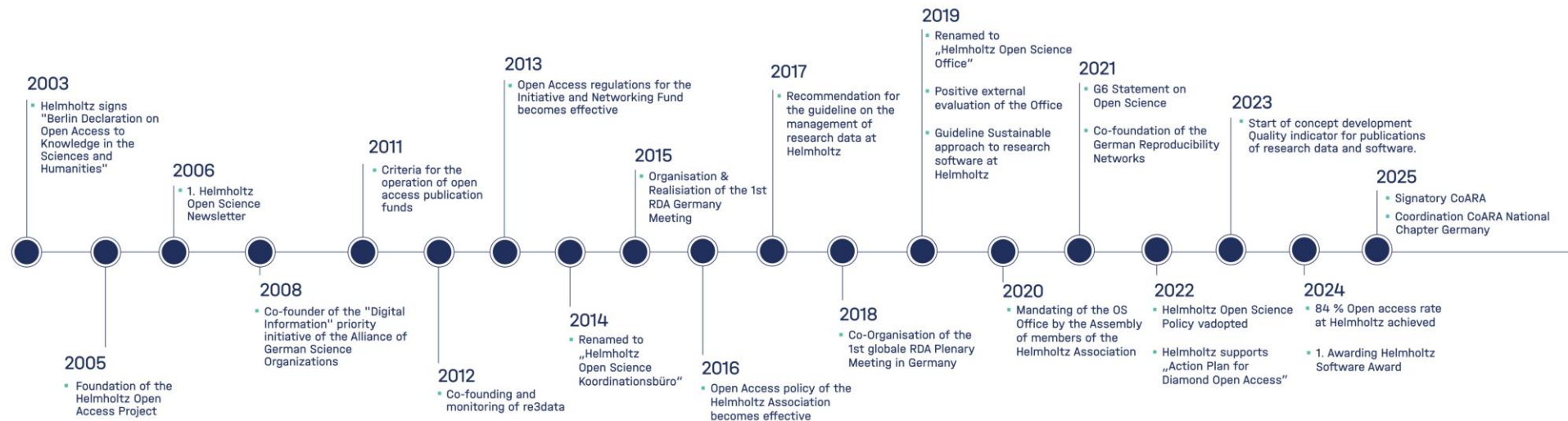


Research  
Assessment



Responsible  
Science

# Milestones



# Helmholtz Open Science Fora

- The OS Office provides forums for the discussion of relevant Open Science topics within the Helmholtz Association
- Objective: Cross-center networking, promotion of opinion-forming and knowledge transfer within the Helmholtz Association
- Knowledge transfer through documentation, briefings & factsheets

## Selected topics

- Forschungssoftware
- Research Data Commons
- NFDI
- Open Science und Transfer
- Open Research Information
- Research Evaluation

<https://os.helmholtz.de/en/events/fora/>

# National and international Networking

- Allianz der deutschen Wissenschaftsorganisation: [Schwerpunktinitiative „Digitalität in der Wissenschaft“](#)
- Confederation of Open Access Repositories ([COAR](#))
- Coalition for Advancing Research Assessment ([CoARA](#))
- [DEAL](#) Consortium
- Deutsche Initiative für Netzwerkinformation ([DINI](#))
- German Reproducibility Network ([GRN](#))
- National Data Infrastructure ([NFDI](#))
- Research Data Alliance ([RDA](#))
- Research Data Alliance Deutschland ([RDA DE](#))



# Project participation of the Helmholtz Open Science Office

Current third-party funded projects:

- [OA Datenpraxis](#) (DFG)
- Open Access Scenario Analysis, [OASA](#) (DGF)
- [open-access.network](#) (BMBF)
- [PID Network Deutschland](#) (DFG)
- [PID4NFDI](#) (BASE4NFDI)
- [Transform2Open](#) (DFG)



Completed projects:

Alliance Permanent Access to the Records of Science in Europe Network ([APARSEN](#)), [DeepGreen](#), Ecosystem Data Management ([EcoDM](#)), Opportunities for Data Exchange (ODE), Options4OA, [ORCID DE](#), [re3data](#)

# Helmholtz Open Science Policy



# Helmholtz Open Science Policy

## Open Science Policy

Adopted by the Helmholtz Association's General Assembly in 09/2022



Strategic Positioning



Monitoring



Implementation

HELMHOLTZ

Open Science

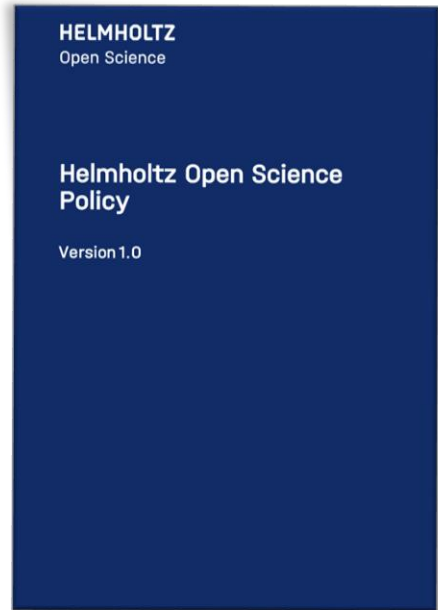
Helmholtz Open Science  
Policy

Version 1.0

<https://doi.org/10.48440/os.helmholtz.056>

# Helmholtz Open Science Policy

- The Helmholtz Association's General Assembly adopted an Open Science Policy in September 2022.
- The policy stipulates that scientific articles, research data and research software are to be published openly. Open Science thus becomes the standard of publication practice.
- The Helmholtz Open Science Policy is organized into three sections:
  - In the section “A. Strategic Positioning,” the Helmholtz Association formulates a commitment to open science in accordance with the principle “as open as possible and as closed as necessary.”
  - In the section “B. Monitoring,” Helmholtz makes a commitment to open science on the basis of the three current focus areas through specific and verifiable objectives.
  - In the section “C. Implementation and Common Requirements,” in line with the funding policy of the European Commission, open science practices are formulated for implementation purposes.

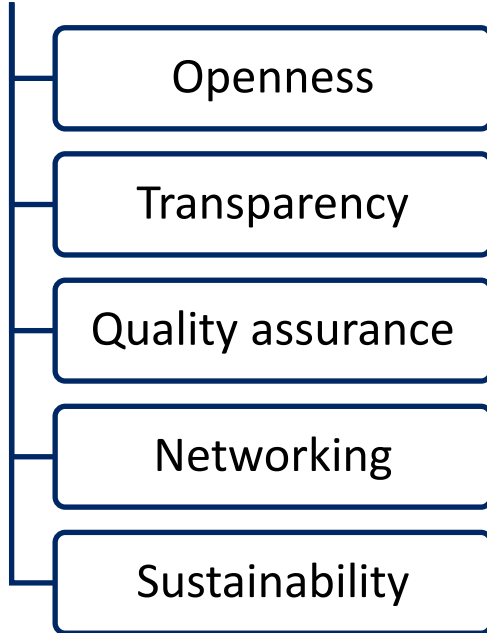


<https://doi.org/10.48440/os.helmholtz.056>

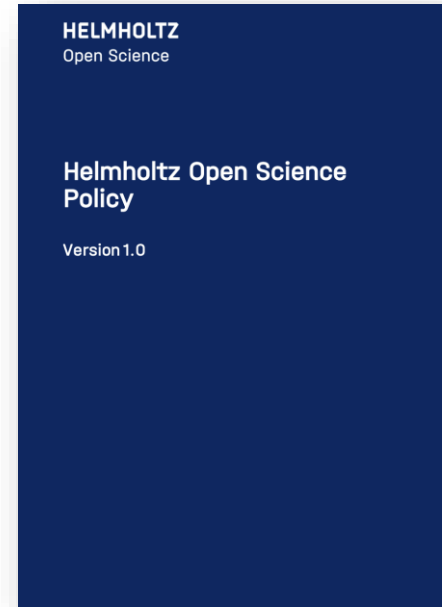
# Helmholtz Open Science Policy

## Strategic Positioning: Principles

### Principles



### Realisation



<https://doi.org/10.48440/os.helmholtz.056>

# Helmholtz Open Science Policy

## Strategic Positioning: Principles

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**Openness:** The results are published openly. Open Access under the Creative Commons license CC BY is the standard publication practice for scientific results to ensure accessibility and reuse of the results.

**Transparency:** The results are communicated transparently. Research data and research software required to evaluate the results are published openly so that they can be classified by third parties (e.g. in the context of reproducibility) at any time.

**Quality assurance:** Digital research services and open knowledge infrastructures support quality assurance. The quality of the results is ensured at every stage of the research process in line with good scientific practice.

**Networking:** The FAIR principles guide the processing of knowledge objects and resources. For example, results are addressed with standards such as metadata and persistent identifiers so that findability, accessibility, interoperability and reuse are permanently guaranteed.

**Sustainability:** Results are published on long-term, secure and trustworthy knowledge infrastructures (including science-driven publication platforms, journals and repositories).

# Helmholtz Open Science Policy

## Strategic Positioning: Design Principles

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In order to shape Open Science on the basis of these principles, Helmholtz:

- Support researchers in implementing these principles by providing infrastructure, services, advice and training,
- Establish and expand central open science infrastructures such as publication platforms, self-publishers, repositories and advisory services and promote their networking at international level
- Ensure the financing of these digital information infrastructures for science
- taking over publication services from publishers and other service providers, subject to appropriate and transparent price and cost structures
- Promote innovative quality assurance procedures such as open peer review
- Embed open science practices in their funding and resource allocation procedures
- Recognize and value the use of open science practices in the assessment of research performance (research assessment) and create incentives for open science practices (open access, open research data, open research software, infrastructure and services)
- Promote networking with other stakeholders to support open science at national and international level.

# Helmholtz Open Science Policy

## On the Way to Openness by Design

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At Helmholtz, the realization of Open Science is supported and promoted with the help of concrete activities, services and offers. These infrastructures are to be understood as dynamically developing socio-technical structures.

Other fields of action that need to be considered in this context are open educational resources, open hardware and open services. With regard to digitalization in the sciences and humanities, the individual components come together to form a digital research ecosystem.

"Openness by design" should be a fundamental maxim that guides future developments.

Open Access

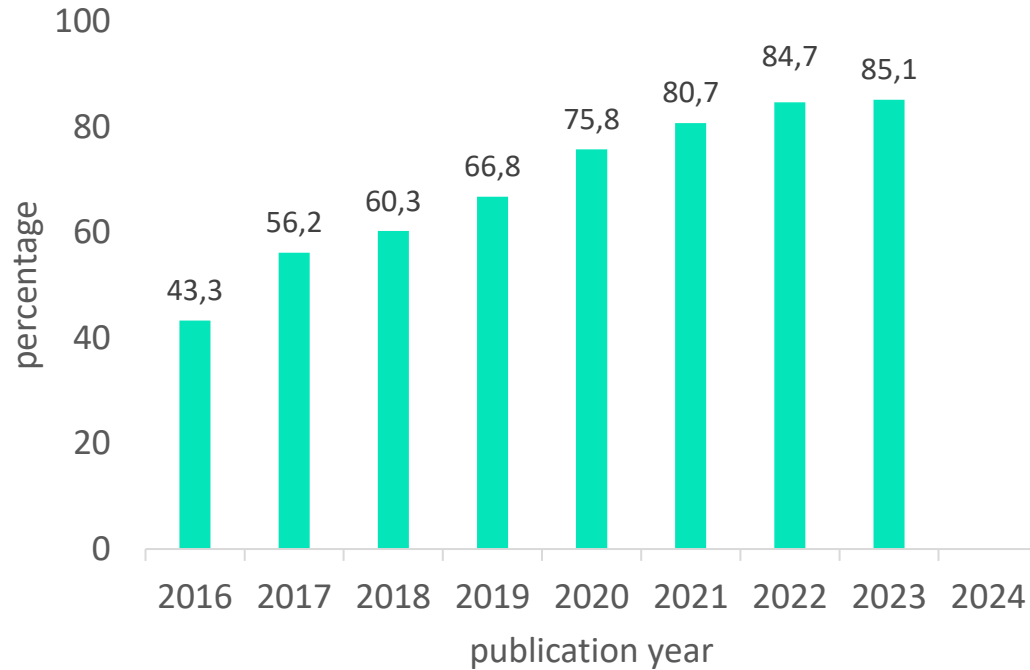
# Open Access

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- The Helmholtz Association was one of the initial signatories of the [Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities](#) in 2003.
- For open access, one of the Helmholtz Open Science Office's key endeavors is the promotion of the transformation from subscription-based access to open access.
- In 2016, and after preparation by the OS Office, the President signed the “Expression of Interest” of the international OA2020 Initiative.
- In 2016, the Assembly of Members specified the [Open Access Policy](#) in concrete terms, offering a framework of action to the Helmholtz Centers for a coordinated transformation towards open access.
- In 2022, the Helmholtz Association's General Assembly adopted the Helmholtz Open Science Policy.



# Open Access Percentage at Helmholtz



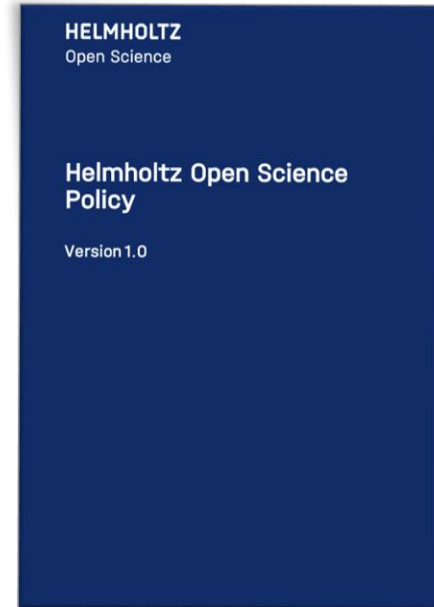
Open Access percentage of publications at the Helmholtz Association (green) for the publication years 2016 to 2023

# Helmholtz Open Science Policy

## Open Access

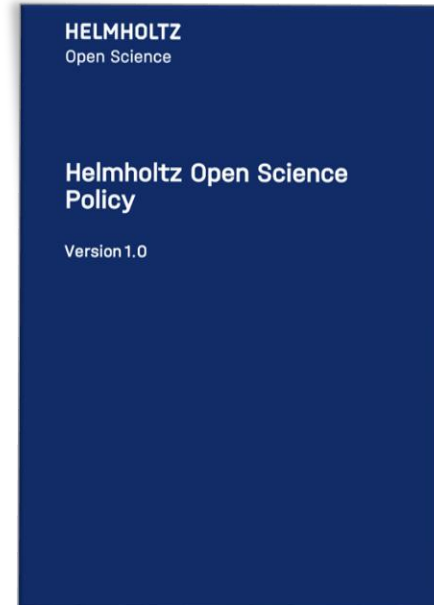
- „1.1 The employees shall ensure that
  - at the time of publication, at the latest, a machine-readable electronic copy of the published version or the final peer-reviewed manuscript accepted for publication is deposited in the Helmholtz Center’s repository for scientific publications.
  - the deposited publication is preferably made freely accessible via the repository immediately, namely, under the latest available version of the Creative Commons Attribution International Public License (CC BY) (in the case of monographs and other long-text formats, an alternative license may be chosen),
  - but at the latest 12 months after publication, in accordance with the right of self-archiving (Section 38(4) of the German Act on Copyright and Related Rights [UrhG]).
  - they make available via the repository information on research results as well as tools and auxiliary resources that are necessary to validate the conclusions of the scientific publication.

For implementation purposes, employees are encouraged to reserve sufficient rights of reuse to fulfil the open access requirements.“



## Open Access

- „1.2 For implementation purposes, the Centers and their information infrastructure facilities shall ensure that
  - the metadata of the deposited publications are accessible under a Creative Commons Public Domain Dedication (CC0) license or another equivalent license; [...].
  - the information included in the metadata is identified by means of suitable persistent identifiers (e.g., DOI, ORCID iD, ROR ID, etc.).
  - the publication fees incurred for scientific publications that have undergone peer review and are genuinely open access are funded within the framework of in-house regulations. Further information on the payment of costs can be found in the “Criteria for the Operation of Open Access Publication Funds and the Payment of Open Access Publication Fees” and in the respective internal policies of the Helmholtz Centers.“



# Open Access

- Promotion of the transformation from subscription to open access
- Promotion of scholar-led, [Diamond Open Access](#)
- Open Access Green and Open Access Gold are implemented as equal strategies

Open Access Green	Open Access Gold
<ul style="list-style-type: none"><li>• Diverse and distributed infrastructure of open access repositories</li><li>• Participation in disciplin-specific open access infrastructures (e.g., <a href="#">Inspire HEP</a>)</li><li>• Co-financing of central open access infrastructures (e.g., <a href="#">arXiv.org</a>)</li></ul>	<ul style="list-style-type: none"><li>• Framework agreements for the financing of Open Access internationally (e.g., <a href="#">SCOAP<sup>3</sup></a>)</li><li>• Framework agreements for the financing of Open Access nationally (e.g., <a href="#">DEAL consortia</a>)</li><li>• Framework agreements for the financing of Open Access in Helmholtz (opt-in contracts)</li><li>• Self-publishing activities at the Centers (e.g., <a href="#">KIT Scientific Publishing</a>)</li></ul>

- Monitoring:
  - National [Open Access Monitor](#) at Forschungszentrum Jülich
  - Monitoring at Helmholtz

# Open Access

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- The Helmholtz Open Science Office accompanies the transformation process at Helmholtz towards open access with:
- Organization of the Task Group [Open Access Transformation](#)
- [Events](#) on the subject of open access publishing
  - e.g. Helmholtz Open Science [Forum Scholar-Led Publishing at Helmholtz](#)
- Resources on the topic of open access publishing
  - [FAQs on the topic of “predatory publishing”](#)
  - [Criteria for the Operation of Open Access Publication Funds and the Payment of Open Access Publication Fees](#)
  - [Preprints at Helmholtz](#)
  - [Recommendations for open science publications in the Helmholtz Association](#)
  - [Memorandum on the Open Access Transformation at the Helmholtz Association](#)

## Task group

# Open Access Transformation

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- Joint Task Group of the Working Group Open Science and the Working Group Library and Information Management to promote the open access transformation at the Helmholtz Association, moderated by the Helmholtz Open Science Office
- The [Task Group](#), among other aspects, works on the following elements of the open access transformation:
  - Monitoring, incentives and metrics
  - Guidelines and policies
  - Cultural change towards open access
  - Sovereignty of scientific communication through Scholar-Led Publishing

# Open Access

## Project participations



### [open-access.network](https://open-access.network)

Numerous measures relating to OA transformation

Inclusive information, training and networking opportunities

Open-Access-Helpdesk



### [Transform2Open](https://transform2open.org)

Addresses the financial dimensions of the OA transition

Includes information budget, workflows and responsibilities



### [OA-Datenpraxis](https://oa-datenpraxis.de)

Supporting the development of structures for OA transformation at scientific institutions in Germany

Promotion and establishment of processes and procedures for sovereign data practice



OA-Szenarienanalyse

Addressing current challenges of the open access transformation in the area of financial and organizational structure

# Open Research Data



# Open Research Data

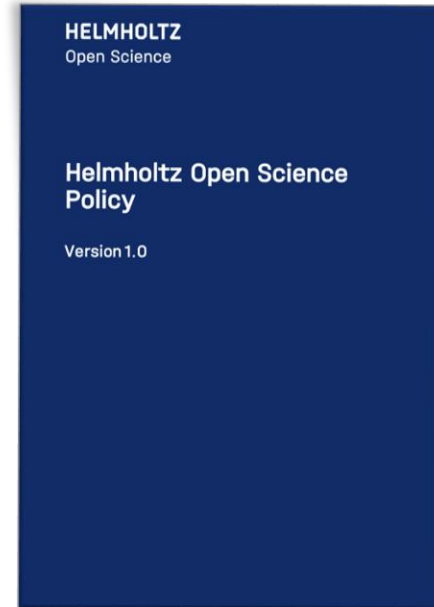
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- The Helmholtz Association is leading in generating, managing and providing access to [research data](#).
- In 2016, the Helmholtz Association adopted a [position paper](#) with the title [Making information resources more usable](#) on the handling of research data.
- In 2017, the Helmholtz Association adopted the [Recommendations for guidelines of the Helmholtz centers for handling research data](#) which guides the Centers in the formulation of their respective [Research Data Policies](#).
- The Helmholtz Open Science Office promotes the [coordination of the Centers](#) and supports them in [developing policies and related practices](#) in handling digital research data; esp. concerning the utilization of the [FAIR principles](#) at Helmholtz.
- In 2022, the Helmholtz Association's General Assembly adopted the [Helmholtz Open Science Policy](#).
- In July 2025, [17 out of 18 centers](#) have their own research data policy.
- The work of the Helmholtz Open Science Office thus complements the developments of platforms in the Helmholtz Information and Data Science ([HIDS](#)) Framework

# Helmholtz Open Science Policy

## Open Research Data

- „2.1 In addition, the employees shall ensure that the following aspects are adhered to:
  - The digital research data that they generate shall be managed responsibly and in accordance with the FAIR Principles.
  - Especially in the case of EU-funded research projects, the employees shall use the data management plan (DMP) tool, and, in doing so, take into account [...]
    - the deposit of research data as early as possible and within the time limits specified in the DMP in a trustworthy repository that is indexed in re3data [...]
    - the principle “as open as possible, as closed as necessary,” unless the provision of open access would, in particular:
      - prejudice the legitimate interests of the funding recipients, also with regard to commercial exploitation, or
      - be contrary to other constraints. [...]“



# Research Data Repositories and Portals at Helmholtz

- [re3data](#) – Registry of Research Data Repositories is an internationally recognized verification tool for research data repositories
- The Helmholtz Open Science Office is a co-founder of the service.
- In July 2025, re3data lists over 3400 research data repositories.
- The Helmholtz Centers operate 138 data infrastructures in the Association in which unique and valuable digital research data is curated (status 05/2025).



# Open Research Data

## NFDI Participation

- Numerous consortia of the National Research Data Infrastructure (NFDI) are being implemented with substantial Helmholtz participation.
- All Helmholtz Centers are members of the NFDI.

### Participation of the Helmholtz Centers in the National Research Data Infrastructure (NFDI)



● All Helmholtz Centers are members of the National Research Data Infrastructure (NFDI) association

# Open Research Data

## Helmholtz NFDI Participation

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- [Base4NFDI](#) (GFZ, KIT, OS Office)
- [DAPHNE4NFDI](#) (DESY, FZJ, HZB, HZDR, HEREON, KIT)
- [DataPLANT](#) (FZJ)
- [FAIRagro](#) (FZJ, UFZ)
- [FAIRmat](#) (FZJ, HZB, HZDR, KIT)
- [GHGA](#) (CISPA, DKFZ, DZNE, HMGU, HZI, MDC)
- [NFDI4BioDiversity](#) (AWI, UFZ)
- [NFDI4BIOIMAGE](#) (DKFZ, FZJ, UFZ)
- [NFDI4Cat](#) (KIT)
- [NFDI4Chem](#) (KIT, UFZ)
- [NFDI4DataScience](#) (AWI)
- [NFDI4Earth](#) (AWI, DLR, FZJ, GEOMAR, GFZ, HEREON, KIT, UFZ)
- [NFDI4Energy](#) (GFZ/RIFS, KIT)
- [NFDI4Health](#) (MDC)
- [NFDI4Immuno](#) (DKFZ, HZI)
- [NFDI4Ing](#) (FZJ, DLR, KIT)
- [NFDI4Microbiota](#) (DLR, FZJ, GFZ, HMGU, HZI, MDC, UFZ)
- [NFDI-MatWerk](#) (FZJ, HEREON, KIT)
- [NFDI4Objects](#) (UFZ)
- [NFDIxCs](#) (KIT, FZJ)
- [PUNCH4NFDI](#) (DESY, DLR, FZJ, GSI, HZDR, KIT)
- [Text+](#) (FZJ)

# Open Research Data

## EOSC-Beteiligungen

- The [European Open Science Cloud \(EOSC\)](#) has been started in 2015 as a project of the European Commission to make it easier for European researchers to access scientific data, platforms, and services for data processing.
- Participation of Helmholtz Centers in 9 ongoing EOSC projects (July 2025):

[AI4EOSC](#): KIT

[AquaINFRA](#): Hereon, KIT

[Blue-Cloud 2026](#): AWI

[EOSC-Beyond](#): DESY, FZJ, KIT

[EOSC data commons](#): FZJ

[EVERSE](#): HZDR

[FAIR-EASE](#): AWI

[O.S.C.A.R.S](#): DESY, FZJ

[Skills4EOSC](#): KIT



# Open Research Data

## EOSC EU Node

- Official launch of the EOSC EU Node services in October 2024
- This is the first node of the envisioned "system of systems" for FAIR data and data services in the European Open Science Cloud (EOSC)
- The EU node is focused on data management and infrastructure services
- NFDI represents Germany as a mandated member of the EOSC
- Base4NFDI (NFDI basic services) as a connection point to the EU Node



<https://open-science-cloud.ec.europa.eu/>

# Open Research Software



# Open Research Software

- The topic of Open Research Software continues to gain importance; while open science calls for **reuse** and **reproducibility** of scientific results, in many research areas, this can only be ensured if **source code** is made openly accessible in addition to the corresponding research data.
- Diverse initiatives:
  - 2017: position paper [Access to and re-use of research software](#)
  - 2019: [Model Policy on Sustainable Software at the Helmholtz Centers](#)
  - 2021: [Checklist for the Implementation of Software Policies at the Helmholtz Centers](#) (German only)
  - 2022: [Helmholtz Open Science Policy](#) & Beteiligung am [campusSOURCE Award 2022](#) für Forschungssoftware
  - 2023: [Helmholtz Research Software Directory](#) & [Helmholtz Software Award](#)

Helmholtz Centers with guidelines/policies on the use of research software

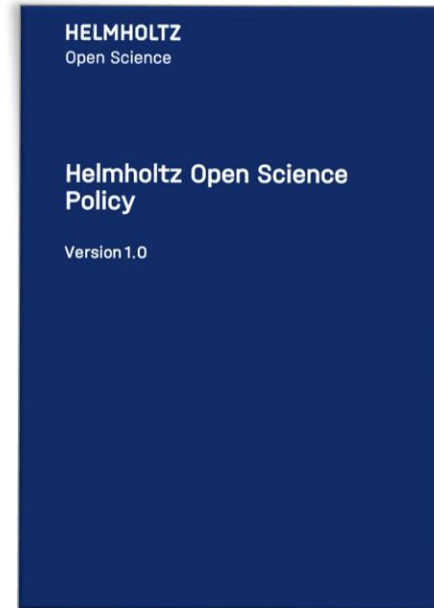


● Location of the Helmholtz Centers

# Helmholtz Open Science Policy

## Open Research Software

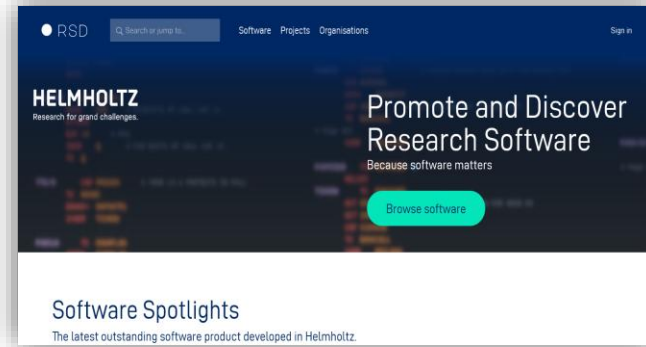
- „3.1 The employees shall ensure that
  - wherever possible, the program code that is necessary for reusing and/or validating the published data is made openly accessible in a repository.
- 3.2 For implementation purposes, the Centers and their information infrastructure facilities shall ensure that
  - researchers are supported in publishing research software;
  - the metadata of the deposited software/the deposited code are published under a Creative Commons Public Domain Dedication License (CC0) or an equivalent license (insofar as legitimate interests or constraints are respected) and in accordance with the FAIR Principles (especially machine-readability), and that they include at least information about the following: program code (description, date of deposit, version, authors, repository); name, acronym, and number of the funding project; licensing conditions; persistent identifiers and, if possible, organizations and funding. If applicable, the metadata must also include persistent identifiers for related publications and other research results.“



# Task Group

## Forschungssoftware

- Close cooperation with HIFIS, [Helmholtz Research Software Directory](#)
- Since 2023: [Helmholtz Software Award](#)
- Regular fora on [Research Software Policies](#)
- Various links to the work of [de-RSE](#)



# Research Assessment

# Research Evaluation and Incentives at Helmholtz

## Program-Oriented Funding (PoF)

“The scientific evaluation is focused on scientific quality. The results serve to provide a review of the performance of both the Helmholtz Center and the individual, usually cross-center programs. Both aspects are equally important: The centers are the driving force behind the Association, since this is where research is carried out and where new insights are gained...”<sup>1</sup>

### OS Office strategic goals

Create awareness and recognition  
for the diversity of research  
outputs and activities

Align assessment of research to  
the conditions of digitalization  
and open science

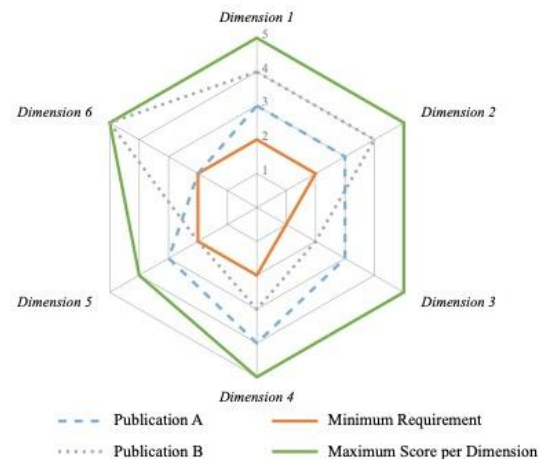
Improve data and software  
publications related to specific  
quality criteria

1: <https://www.helmholtz.de/en/about-us/structure-and-governance/program-oriented-funding/>

## Task Group

# Helmholtz Quality Indicators for Data and Software Products

- Since March 2022: [Task Group Helmholtz Quality Indicators for Data and Software Products](#)
- **Objective:** Development of incentives and indicators to promote Open Science in the Helmholtz Association
- 2023: Establish **basic indicator** within the framework of the PoF as an incentive for the presentation of citable research data publications .
- Next step: **Quality indicators** for data and software will replace the basic indicator
  - Defined quality dimensions based on FAIR and FAIR4RS
  - Test introduction for the reporting years 2026- 2027
  - Implementation from reporting year 2028 (PoF-V)



Discussion paper: Towards a Quality Indicator for Research Data publications and Research Software publications-- A vision from the Helmholtz Association:

<https://doi.org/10.48550/arXiv.2401.08804>

# Research Assessment

- The San Francisco Declaration on Research Assessment (DORA) deals with the reform of research assessment and contains recommendations for funders, organizations and individuals.
  - Helmholtz signatories: DKFZ, FZJ, GFZ, KIT, MDC
- Reforming the practice of research assessment in the Coalition for Advancing Research Assessment (CoARA)
  - Recognizing diverse outcomes, practices, and activities in the assessment of research, researchers, and research institutions
  - Helmholtz signatories: MDC, Helmholtz OS Office
  - Since March 2025: OS Office coordinates the CoARA German National Chapters



# Research Assessment

## Task Group Research Assessment

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- Task Group active since March 2025
- **Objective:** The goal of the group is to engage with quality-oriented assessment practices, compare the current approaches at the centers with recommendations from ongoing expert discussions, and develop proposals for advancing research assessment in the Helmholtz Association.
- Website: <https://os.helmholtz.de/en/open-science-in-helmholtz/working-group-open-science/task-group-research-assessment/>
- Planned priorities:
  - Criteria and practices for evaluating individual researchers
  - Evaluation criteria and KPIs at center level



# National and International Cooperations

# National and international Networking

- Allianz der deutschen Wissenschaftsorganisation: [Schwerpunktinitiative „Digitalität in der Wissenschaft“](#)
- Confederation of Open Access Repositories ([COAR](#))
- Coalition for Advancing Research Assessment ([CoARA](#))
- [DEAL](#) Consortium
- Deutsche Initiative für Netzwerkinformation ([DINI](#))
- German Reproducibility Network ([GRN](#))
- National Data Infrastructure ([NFDI](#))
- Research Data Alliance ([RDA](#))
- Research Data Alliance Deutschland ([RDA DE](#))



# Cooperations

## Priority Initiative “Digital Information”

- From 2023, continuation of the cooperation of the Alliance of German Science Organizations with a [focus](#) on "Digitality in Science".
- The guiding principle of the cooperation is: [Shaping digitality - promoting openness and sovereignty](#)
- 2008 - 2022 Helmholtz cooperates with other research institutions as part of the [Alliance of German Science Organizations](#) in the [priority initiative "Digital Information"](#).



## Cooperations

# OS Office and the Research Data Alliance (RDA)

- Support for global and national research data initiatives
- Networking in research data management
- Promotion of the international [Research Data Alliance](#) (RDA)
- The Helmholtz OS Office is co-organizer of the [RDA-DE](#) conference (since 2016)
- Helmholtz as an organizational RDA member
- 2018: Organization of the international [RDA Plenary Meeting](#) in Germany



# Projects of the Helmholtz Open Science Office

# Project participation of the Helmholtz Open Science Office

The Helmholtz Open Science Office participates in relevant third-party funded projects.

These are currently:

- [OA Datenpraxis](#) (DFG)
- Open Access Szenarienanalysen - [OASA](#) (DFG)
- [open-access.network](#) (BMBF)
- [Transform2Open](#) (DFG)
- [PID4NFDI](#) (BASE4NFDI)
- [PID Network Deutschland](#) (DFG)

## Completed projects:

Alliance Permanent Access to the Records of Science in Europe Network ([APARSEN](#)), [DeepGreen](#), Ecosystem Data Management ([EcoDM](#)), Opportunities for Data Exchange (ODE), Options4OA, [ORCID DE](#) und [re3data](#).



Transform2Open

 **PID4** nfdi



# DFG Project

## OA Datenpraxis



- Title: OA Datenpraxis
- Project partners: Humboldt-University of Berlin  
Göttingen State and Regional Library of Lower Saxony
- Grant period: 02/2024 bis 02/2026
- Project website: <https://oa-datenpraxis.de/>  
<https://os.helmholtz.de/aktuelles/projekte/oa-datenpraxis/>
- Contact persons: Heinz Pampel & Johannes Schneider

Supporting the formation of structures for the open access transformation at scientific institutions in Germany

Promotion and establishment of processes and procedures for sovereign data practice



With a view to the Open Access transformation at scientific institutions in Germany the project pursues the following goals:

- Improvement of data-based governance
- Strengthening of collaborations
- Development of standards for collaborative data practice
- Minimizing dependencies on commercial data sources
- Improvement of information provision

The focus is on promoting and establishing processes and procedures for sovereign data practice in shaping the open access transformation.



# DFG-Projekt

## OASA

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- Title: Open Access Szenarienanalysen
- Project partner: Forschungszentrum Jülich  
Humboldt-Universität zu Berlin  
RWTH Aachen,  
Leipzig University
- Grant period: project start planned for Jan. 2026
- Website: <http://hu.berlin/oasa>
- Contact person: Heinz Pampel
- Topics:
  - Addressing current challenges of the open access transformation in the area of financial and organizational structure
  - Analysis and evaluation of the financial development prospects of open access
  - Recommendations for further addressing the open access transformation in Germany

- Title: Persistent Identifier Services for the German National Research Data Infrastructure – PID4NFDI
- Project partner: DataCite  
Gesellschaft für wissenschaftliche Datenverarbeitung Göttingen (GWDG)  
Technical Information Library (TIB) Hannover
- Grant period  
initial phase: 01/2025 to 12/2026
- More information: <https://base4nfdi.de/projects/pid4nfdi>
- Contact persons: Steffi Genderjahn & Antonia Schrader

- PID4NFDI is currently funded in the integration phase as part of [Base4NFDI](#).
- Objective: Establishment of a basic service to support the NFDI consortia in the application, use and implementation of persistent identifiers (PIDs)
- Main areas of work in the current phase:
  - Development of a comprehensive strategy for the selection and integration of PIDs
  - Development of use cases, guidelines and tools to improve the metadata quality and interoperability of PID systems within the NFDI
  - Establishment of a PID Coordination Hub as an entry point for the NFDI on PID-related topics
  - Development of training and support concepts for the use and application of PIDs
  - Public relations and networking activities
- Close cooperation between PID4NFDI and the PID Network Germany

# BMBF Project

## open-access.network



- Title: open-access.network
- Projekt partners: Communication, Information and Media Center (KIM) of the University of Konstanz  
Open Access Office Berlin at Freie Universität Berlin  
Technical Information Library (TIB) Hannover  
University Library Bielefeld  
Göttingen State and University Library of Lower Saxony
- Grant period: 12/2019 to 12/2025
- Information: <https://open-access.network>  
<https://os.helmholtz.de/aktuelles/projekte/open-accessnetwork>
- Contact persons: Christoph Bruch & Paul Schultze-Motel

In 2022, the project was evaluated in detail on behalf of the BMBF:

The [evaluation report](#) recommended follow-up funding.

Participation of the Helmholtz Open Science Office in six work packages:

- Editorial expansion and consolidation of content ([web editing](#))
- New approaches to [Open Access funding](#) (workshops and handouts)
- [Helpdesk](#) (consulting services)
- Services for [small institutions and departmental research](#) (workshops and report)
- Specialist services [in cooperation with learned societies](#) (workshops and handout)
- [oa.atlas](#) (data collection, data maintenance and reporting)

# DFG Project

## PID Network Deutschland



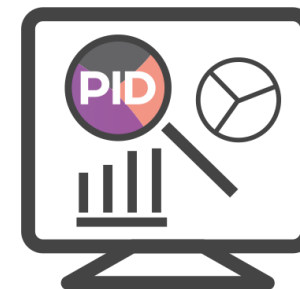
- Title: PID Network Deutschland –  
Netzwerk für die Förderung von persistenten Identifikatoren in Wissenschaft und Kultur
- Project partners: DataCite  
  
German National Library  
  
Technical Information Library (TIB) Hannover  
  
University Library Bielefeld
- Grant period: 03/2023 bis 03/2026
- Informations: <https://www.pid-network.de>  
<https://os.helmholtz.de/aktuelles/projekte/pid-network-deutschland>
- Contact persons: Steffi Genderjahn & Antonia Schrader

Objective: Establishment of a network of existing and new actors in science and culture to promote and consolidate the application, implementation, standardization and international networking of PID systems at local, national and international level and development of a national PID roadmap.

The 10 PID application areas on which the project will focus.



Icons for 10 PID Use Cases: <https://doi.org/10.5281/zenodo.15173234>



<https://pid-monitor.org/>

- Title: Transform2Open
- Project partners: Research Center Jülich, Central Library  
University of Potsdam, University Library
- Grant period: 01/2023 to 01/2026
- Informations: <https://www.transform2open.de>  
<https://os.helmholtz.de/aktuelles/projekte/transform2open>
- Contact persons: Lea Maria Ferguson & Marcel Meistring



- The **aims** of Transform2Open are
  - Development **of strategies, concepts and measures** for shaping the **open access transformation**
  - Further development of budgets, criteria, competencies and associated processes with regard to the **financial aspects** of the open access transformation
- The **target group** for the results of Transform2Open are **universities and non-university research institutions**
- The project organizes **dialogue forums and workshops** with various target groups and ensures interaction with other projects and activities in the field of open access transformation (e.g. open-access.network, openCost, information budget focus group, open access data practice)
- Social Media:
  - Mastodon: <https://openbiblio.social/@Transform2Open>



Dialogue

# Team

- Mathijs Vleugel (Head)
- Christoph Bruch
- Lea Maria Ferguson
- Steffi Genderjahn
- Marc Lange
- Heinz Pampel
- Johannes Schneider
- Antonia C. Schrader
- Paul Schultze-Motel
- Leonie Voland (student assistant)



### Keep in touch



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<https://os.helmholtz.de>



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[Mastodon](#)



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Publications and recommended readings: [Zotero](#)

Mailing list for members at Helmholtz – [Helmholtz Open Science Professionals](#) and [Mattermost](#)





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