

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

8. Bibliothekskongress Leipzig

🔍 2022

10 Jahre
re3data

#FreiräumeSchaffen

8. Bibliothekskongress Leipzig 2022

Hands-on Lab: „Develop & Curate – Einträge für Forschungsdatenrepositorien in re3data erstellen, bearbeiten, durchsuchen und nachnutzen“

Dienstag, 31. Mai, 09:00 - 10:30

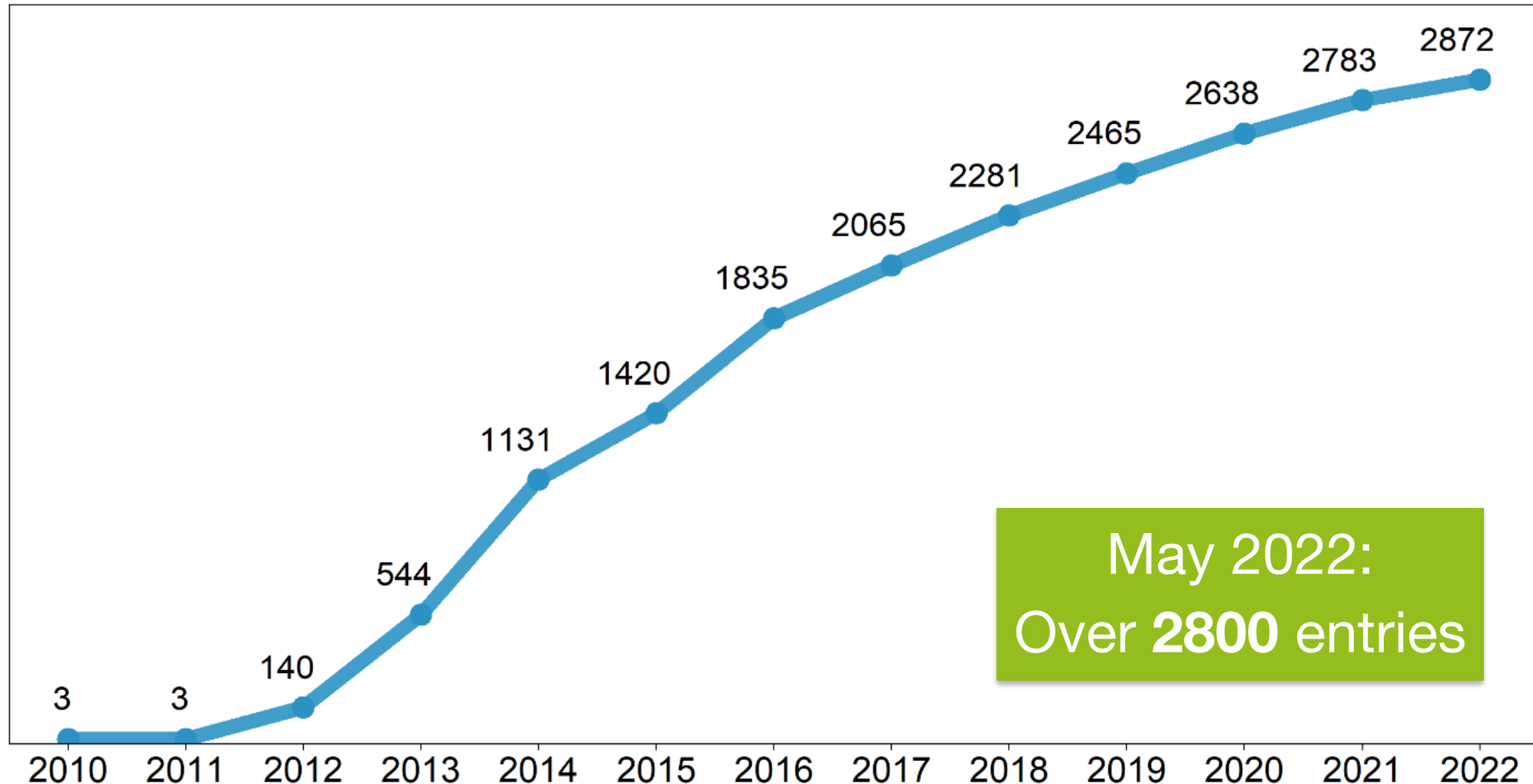
Vortragsraum 10

Rouven Schabinger, Dorothea Strecker & Nina Leonie Weisweiler

Zeitplan und Vorstellungsrunde

09:00 - 09:15	Einführung in re3data
09:15 - 09:45	Der Aufnahmeprozess für Repositorien in re3data / Neue Einträge und Änderungsvorschläge
09:45 - 10:15	Die re3data API: Abruf und Auswertung der Metadaten
10:15 - 10:30	Zusammenfassung und Fragen

Number of repositories indexed in re3data per year:



May 2022:
Over 2800 entries

**Global Registry
of Research Data
Repositories**

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

Search...

Search

across all
**research
disciplines**

... presents **repositories** for the **permanent storage** and **access** of research data sets to researchers, funding bodies, publishers and scholarly institutions.


...promotes a culture of **sharing, increased access and better visibility** of research data

re3data Origins

Funded by

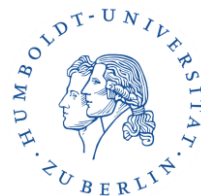


Deutsche
Forschungsgemeinschaft
German Research Foundation

2011 - 2016	DFG-funded project (Helmholtz Open Science Office, Humboldt-Universität zu Berlin, Karlsruhe Institute of Technology)
2012	re3data website goes live
2013	Merge with DataBib (International Editorial Board, New partner: Purdue University)
2015	Official partner service of DataCite
2019 - 2022	FAIRsFAIR project
2020 - end of 2022	Current DFG-funded project: 



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What is a “repository” in re3data?

- We generally refer to all re3data entries as “repositories”.
- Repositories in re3data are defined as “[...] a subtype of a sustainable information infrastructure providing long-term storage of and access to research data.” ([Metadata Schema for the Description of Research Data Repositories, Version 3.1](#))
- The re3data registration policy is intentionally inclusive to cover a broad range of infrastructures for research data.

Registration Policy

Search

Browse ▾

Suggest

Resources ▾

Contact

re3data.org Registration Policy

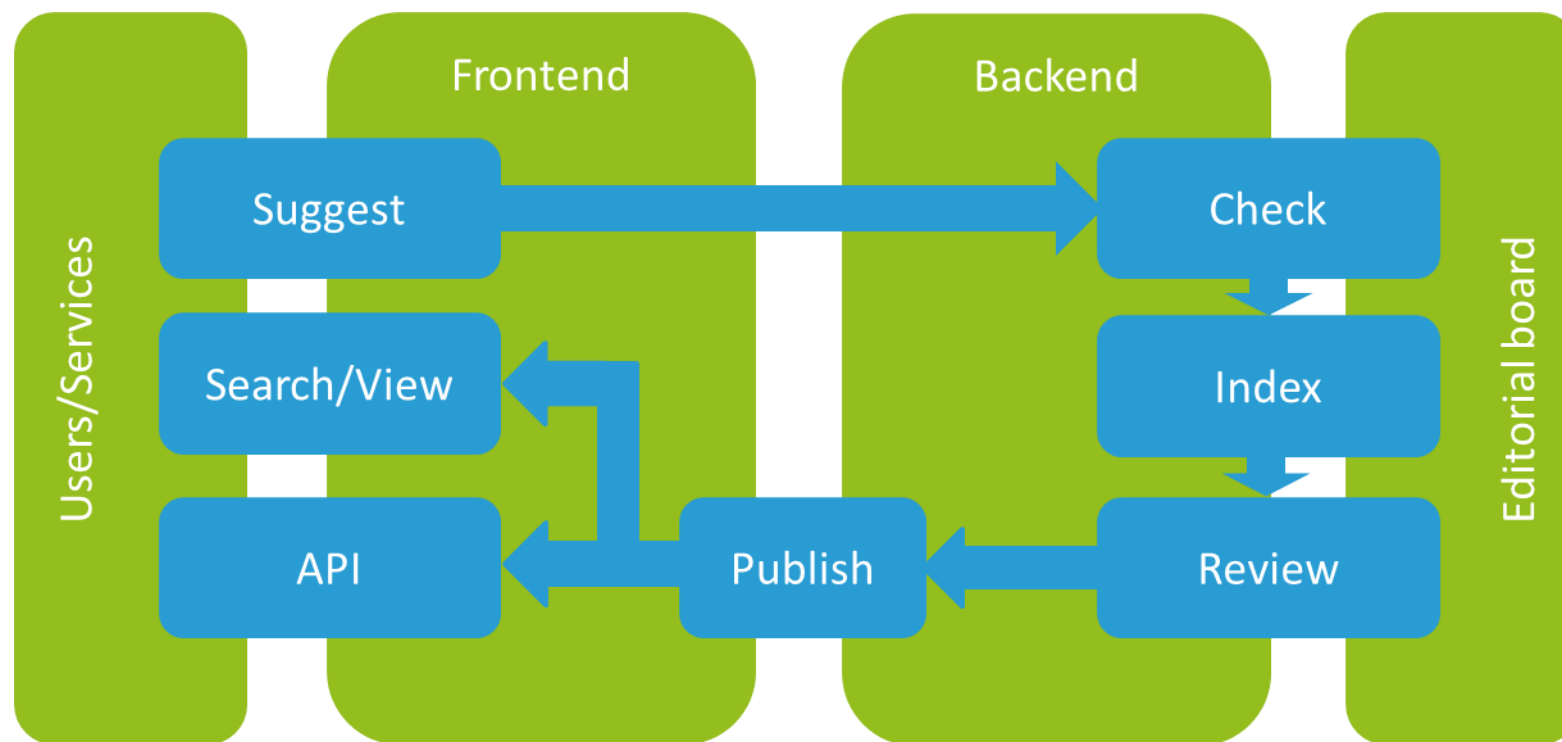
To be registered in re3data.org a research data repository must

- be run by a legal entity, such as a sustainable institution (e.g. library, university)
- clarify access conditions to the data and repository as well as the terms of use
- **have focus on research data**



A research data repository is a subtype of a sustainable information infrastructure which provides long-term storage and access to research data that is the basis for a scholarly publication. Research data means information objects generated by scholarly projects for example through experiments, measurements, surveys or interviews.

Editorial Workflow



Source: <https://www.re3data.org/faq>

Workflow for new repository suggestions and change requests for re3data

Metadata Schema Version 3.1



Metadata Schema for the Description of Research Data Repositories

Version 3.1, August 2021

DOI: <https://doi.org/10.48440/re3.010>

Authors: [Dorothea Strecker](#)¹, [Roland Bertelmann](#)², [Helena Cousijn](#)³, [Kirsten Elger](#)⁴, [Lea Maria Ferguson](#)², [David Fichtmüller](#)⁵, [Hans-Jürgen Goebelbecker](#)⁶, [Maxi Kindling](#)¹, [Gabriele Kloska](#)⁶, [Thanh Binh Nguyen](#)⁶, [Heinz Pampe](#)², [Vivien Petras](#)¹, [Rouven Schabinger](#)⁶, [Edeltraud Schnepf](#)⁶, [Angelika Semrau](#)⁶, [Marqarita Trofimenko](#)⁶, [Robert Ulrich](#)⁶, [Arne Upmeyer](#)⁶, [Paul Vierkant](#)³, [Nina Leonie Weiswaller](#)², [Yi Wang](#)¹, [Michael Witt](#)⁷.

¹ [Humboldt-Universität zu Berlin](#), Berlin School of Library and Information Science, Germany

² [Helmholtz Association](#), Helmholtz Open Science Office, Germany

³ [DataCite - International Data Citation Initiative e.V.](#)

⁴ [GFZ German Research Centre for Geosciences / Helmholtz-Zentrum Potsdam – Deutsches GeoForschungsZentrum \(GFZ\)](#), Germany

⁵ [Botanischer Garten und Botanisches Museum Berlin](#), Germany

⁶ [Karlsruher Institut für Technologie / Karlsruhe Institute of Technology \(KIT\)](#), Germany

⁷ [Purdue University](#), United States

Contact
info@re3data.org
<https://www.re3data.org>

42 Properties on...

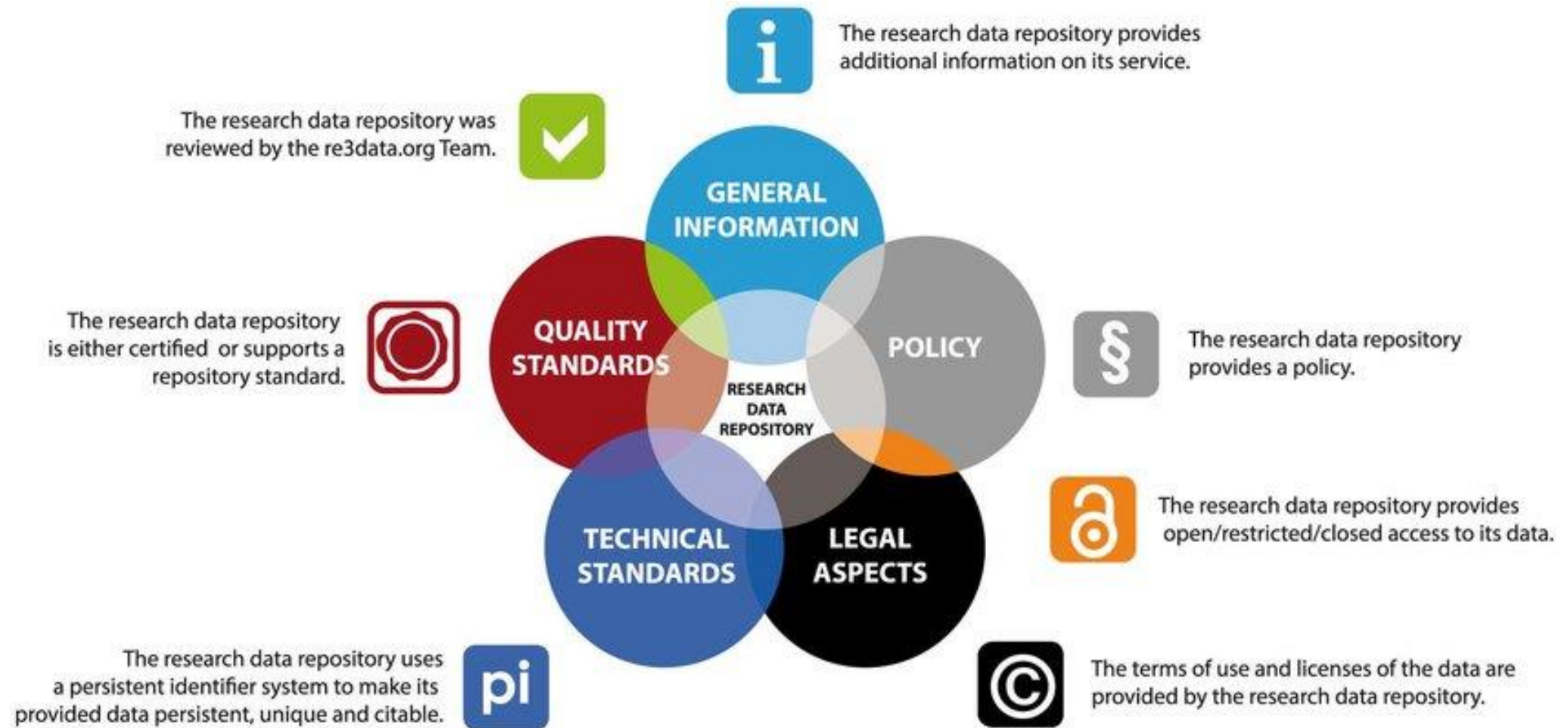
- General information
- Responsibilities
- Policies
- Legal aspects
- Technical standards
- Quality standards
- DOI for repository descriptions
- Since 2020: ROR IDs for institutions

Version 3.1 of the Metadata Schema:

<https://www.re3data.org/schema>



Icons – facilitating the selection process of appropriate research data repositories



re3data as a metadata provider

re3data is a **central reference point and data source** for other service providers, see for example:

- [Open Science Observatory](#)
- [European Open Science Monitor](#)
- [DataCite Commons](#)
- [F-UJI Automated FAIR Data Assessment Tool](#)
- [DARIAH-EU Data Deposit Recommendation Service](#)

re3data COREF Project

- Funded for 36 Months since January 2020
- Berlin School of Library and Information Science at the Humboldt-Universität zu Berlin
- DataCite - International Data Citation Initiative e. V.
- Helmholtz Open Science Office of the Helmholtz Association
- KIT Library at the Karlsruhe Institute of Technology
- The project partners actively participate in national and international initiatives on research data management (DINI, RDA).

Funded by



Deutsche
Forschungsgemeinschaft
German Research Foundation



Visit the project blog:
coref.project.re3data.org

re3data coref

COMMUNITY DRIVEN OPEN REFERENCE FOR
RESEARCH DATA REPOSITORIES

Conceptual Service Model

- Embed the registry within the research community and infrastructure landscape to meet the emerging needs for a trusted repository reference. (see [Conceptual Model for User Stories](#))

Metadata Schema

- Revision and enhancement of the re3data metadata schema for the description of research data repositories. (see [Metadata Schema Version 3.1](#))

Technical Infrastructure

- Implement new features and the updated metadata schema.
- Provide the necessary technical infrastructure and services.

Quality & Transparency

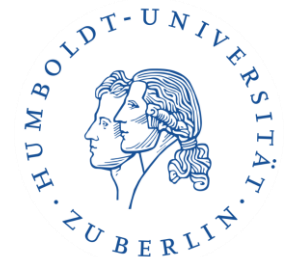
- Conduct a comprehensive study & a workshop on quality assurance at research data.
- Improve re3data metadata quality, trust and transparency.

Community Building

- Extensive outreach activities, networking and policy development.



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What makes a good registry record?

Search

Browse ▾

Suggest

Resources ▾

Contact

re3data.org

REGISTRY OF RESEARCH DATA REPOSITORIES

Search...



Search

Editorial Board

Catherine Jones

Science and Technology Facilities Council (STFC)



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Indian Statistical Institute (ISI)

Iris Lindenmann

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Karlsruhe Institute of Technology (KIT)

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Karlsruhe Institute of Technology (KIT)



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Karlsruhe Institute of Technology (KIT)

Gail Steinhart

Cornell University



Hui Wang

Chinese Academy of Sciences (CAS) / National Science Library (NSL)



Gabriele Weickert

Karlsruhe Institute of Technology (KIT)

Sarah Williams



University of Illinois



Michael Witt

Purdue University

Required information

Required information	
Repository name	<input type="text"/>
Repository name language	<input type="text" value="English"/> 
Repository url	<input type="text"/>
Description	<input type="text"/>
Description language	<input type="text" value="English"/> 
Data licenses	+ Add dataLicenses
Suggester's email	<input type="text"/>

General

- Additional names
- **Subjects**
- **Repository contacts**
- Content types
- **Certificates**
- Keywords
- **Repository identifiers**
- Size
- **Types**
- Mission statement URL
- Start date
- Repository languages
- Provider types

PANGAEA

Data Publisher for Earth and Environmental Science

<https://www.pangaea.de/>

Oceanography Geology and Palaeontology Geophysics Geochemistry, Mineralogy and Crystallography Biology

Atmospheric Science and Oceanography Geosciences (including Geography) Natural Sciences

Geology and Palaeontology Geophysics and Geodesy Geochemistry, Mineralogy and Crystallography

Life Sciences

The information system PANGAEA is operated as an Open Access library aimed at archiving, publishing and distributing georeferenced data from earth system research. The system guarantees long-term availability of its content through a commitment of the operating institutions.

<https://www.pangaea.de/contact/>

Source code Standard office documents Images Plain text Archived data Audiovisual data

CoreTrustSeal

lithosphere paleontology atmosphere ecology biosphere land surface cryosphere fisheries

agriculture earth science environmental science biology

FAIRsharing_doi:10.25504/FAIRsharing.6yw6cp

disciplinary

<https://www.pangaea.de/about/>

English

data provider

Institutions

- Name
- Name language
- **Country**
- Type
- URL
- Responsibility start date
- Responsibility end date
- Additional names
- Contacts
- Identifiers
- **Responsibility types**

[Alfred Wegener Institute - Helmholtz Centre for Polar and Marine Research](#)

AWI

Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung

ROR:032e6b942

<https://www.awi.de/en/about-us/service/contact.html>

Germany

general

technical

non-profit

Terms

- Policies
- **Database access**
- **Data accesses**
- **Data uploads**
- Data upload licenses

Policies (2)

Policy Name [CoreTrustSeal assessment](#)

Policy Name [Data policy of the information system PANGAEA](#)

Database access

Type of access to research data repository [open](#)

Database licenses (1)

Database License [CC0](#)

Data access (1)

Type of access to data [open](#)

Data licenses (4)

DataLicense [CC](#)

DataLicense [other](#)

<i>Access (property)</i>	<i>Open Access</i>		<i>Restricted Access</i>		<i>Closed Access</i>
Access to Repository (20.1 databaseAccessType)	open		open or restricted		closed
Access to Data (22.1 dataAccessType)	open (embargoed, restricted, closed)		restricted (embargoed, closed)		closed
Data Upload (24.1 dataUploadType)	open or restricted	closed	open or restricted	closed	-

Standards

- Software
- Versioning
- **PID systems**
- Citation guideline URL
- AID systems
- Enhanced publication
- Quality management
- **APIs**
- **Metadata standards**
- Syndications
- Remarks

DOI

other

yes

<https://wiki.pangaea.de/wiki/Citation>

ORCID

unknown

yes

interfaces (1)

[OAI-PMH](#)

[Darwin Core](#)

DCC

[ISO 19115](#)

DCC

[Dublin Core](#)

DCC

[DIF - Directory Interchange Format](#)

DCC

Keeping your record up-to-date

- Automated updates (e.g. CTS)
- Reviews by the editorial team
- Your change request?

Submit a change request

Make changes to the properties that need an update. The editorial board will review the submitted record and put it online

General

Repository name	nanoHUB
Repository name language	English
Additional names	<p>Text nanoHUB.org</p>
Language	English
Repository url	https://nanohub.org/
Subjects	<p>Name 31 Chemistry</p> <p>Scheme DFG</p>

pre-filled metadata fields

Contact	https://nanohub.org/about/contact
Content type(s)	Databases Audiovisual data Software applications
Keyword(s)	Nanomaterial Registry nanoBIO nanoscience nan
Persistent identifier(s) of the repository	RRID:SCR_013963 OMICS_27120
Repository size	6.139 resources
Repository type(s)	disciplinary
Mission statement for designated community	https://nanohub.org/about
Research data repository language(s)	English
Data and/or service provider	data provider service provider

[Back to search](#)

[Submit a change request](#)

[Get a badge](#)

Use case examples for the re3data API

- The examples are implemented in [R](#) using [Jupyter Notebooks](#). They outline the use cases as well as each step in the process of data collection, processing and visualization (if applicable).
- Visit the [re3data GitHub repository](#).
- Find the [material related to this Hands-on Lab](#) on Github.

Kontaktieren Sie uns!

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Mail: info@re3data.org

Twitter: [@re3data](https://twitter.com/re3data)

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

Noch Fragen?



Informationen zum
Projekt:

coref.project.re3data.org

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[Nina Weisweiler](#) (Helmholtz-Gemeinschaft, Helmholtz Open Science Office)

