

Themenkreis 5: Content und Digitalisierung, Raum 3 (virtuell)

Freitag, 18. Juni, 13:30 - 15:00

Repositorien: Verzeichnis und Betrieb

**re3data.org**  
REGISTRY OF RESEARCH DATA REPOSITORIES

109. Bibliothekartag  2021

**re3data COREF -  
Ausbau und  
Weiterentwicklung  
des Registry of  
Research Data  
Repositories**

Project Blog:  
[coref.project.re3data.org](http://coref.project.re3data.org)

**re3data  
coref**

Fragen & Anregungen?  
Web: [www.re3data.org](http://www.re3data.org)  
Mail: [info@re3data.org](mailto:info@re3data.org)  
Twitter: [@re3data](https://twitter.com/re3data)

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[Margarita Trofimenko](#) (Karlsruher Institut für Technologie (KIT))

[Robert Ulrich](#) (Karlsruher Institut für Technologie (KIT))

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

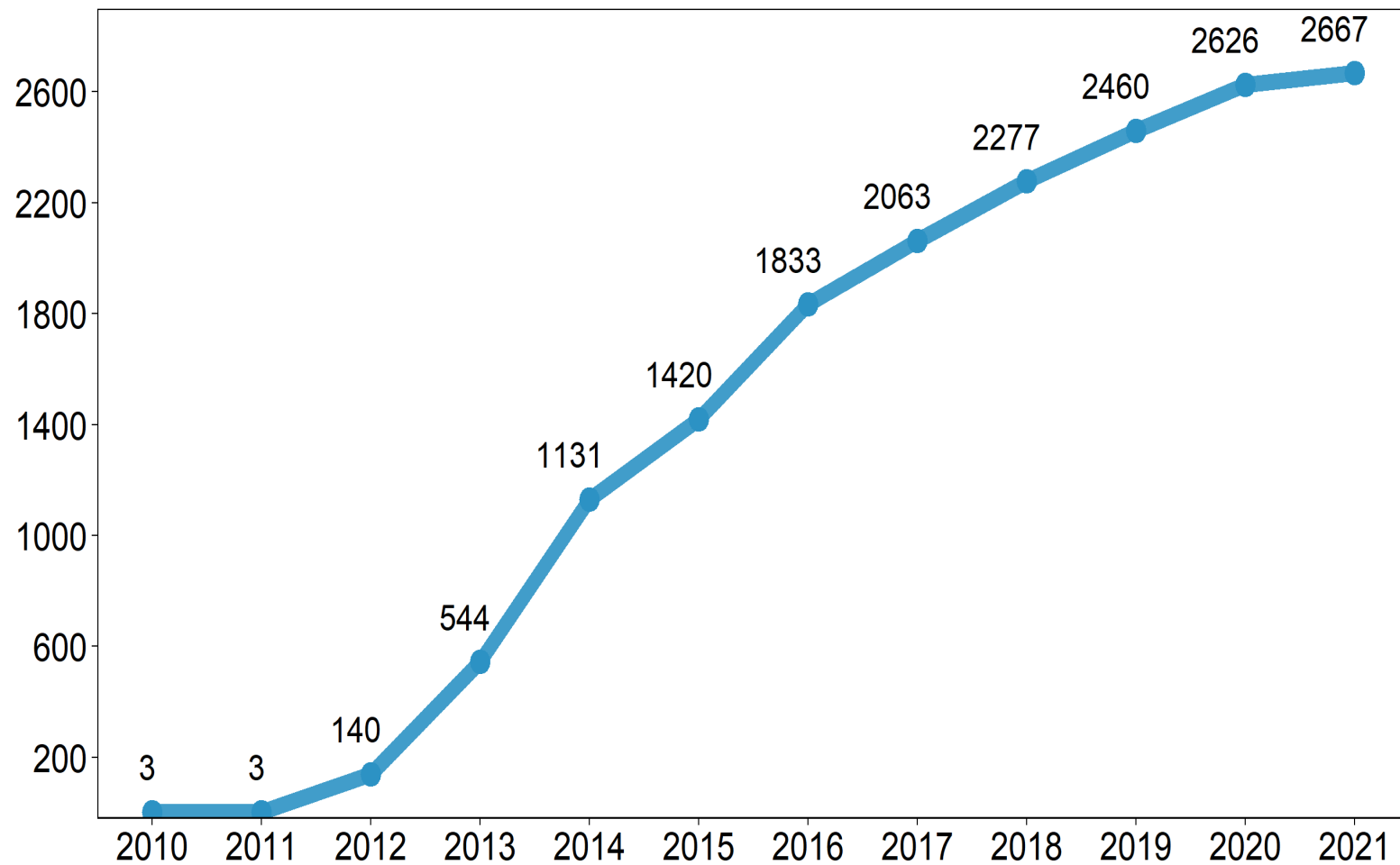
[Yi Wang](#) (Karlsruher Institut für Technologie (KIT))

[Michael Witt](#) (Purdue University, United States)

The Team:



## Number of repositories indexed in re3data per year:



June 2021:  
More than **2600**  
research data  
repositories

**re3data.org**  
REGISTRY OF RESEARCH DATA REPOSITORIES

Search...

Search

global registry of  
research data  
repositories

across all  
scientific  
disciplines

... presents **repositories and portals** 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

- 2012-2015: **DFG-funded project** (GFZ, HU, KIT)
- 2013: Merge with **DataBib** (new partner: **Purdue University**, new **International Editorial Board**)
- 2015: Official service of **DataCite**
- 2020-2022: Current DFG-funded project → 
- Technical maintenance and development of the service is financed and managed by **Karlsruhe Institute of Technology (KIT)** and **DataCite**

# Metadata Schema Version 3.0

**re3data.org**  
REGISTRY OF RESEARCH DATA REPOSITORIES

## Metadata Schema for the Description of Research Data Repositories

Version 3.0  
December 2015  
doi: <http://doi.org/10.2312/re3.008>

Authors: Jessika Rücknagel <sup>a</sup>, Paul Vierkant <sup>a</sup>, Robert Ulrich <sup>c</sup>, Gabriele Kloska <sup>c</sup>, Edeltraud Schnepf <sup>c</sup>, David Fichtmüller <sup>d</sup>, Evelyn Reuter <sup>c</sup>, Angelika Semrau <sup>c</sup>, Maxi Kindling <sup>b</sup>, Heinz Pampel <sup>a</sup>, Michael Witt <sup>a</sup>, Florian Fritze <sup>b</sup>, Stephanie van de Sandt <sup>b</sup>, Jens Klump <sup>f</sup>, Hans-Jürgen Goebelbecker <sup>c</sup>, Michael Skarupianski <sup>c</sup>, Roland Bertelmann <sup>a</sup>, Peter Schirmbacher <sup>b</sup>, Frank Scholze <sup>c</sup>, Claudia Kramer <sup>c</sup>, Claudio Fuchs <sup>a</sup>, Shaked Spier <sup>b</sup>, Agnes Kirchoff <sup>d</sup>

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<sup>b</sup> Humboldt-Universität zu Berlin, Berlin School of Library and Information Science (BLIS), Germany

<sup>c</sup> Karlsruhe Institute of Technology (KIT), KIT Library, Germany

<sup>d</sup> Botanic Garden and Botanical Museum Berlin-Dahlem, Freie Universität Berlin, Germany

<sup>e</sup> Purdue University Libraries, West Lafayette, USA

<sup>f</sup> Commonwealth Scientific and Industrial Research Organisation (CSIRO), Mineral Resources, Kensington WA, Australia

Contact  
[info@re3data.org](mailto:info@re3data.org)  
<http://www.re3data.org>



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## 41 Properties on...

- General information
- Responsibilities
- Policies
- Legal aspects
- Technical standards
- Quality standards
- DOI for repository descriptions
- New 2020: ROR identifier for institutions implemented

**Currently under revision...**

# catalogue

Home Search Browse Suggest FAQ About Schema API Contact Legal notice / Impressum

simple search box

filters

Filter

Subjects ⊞  
Content Types ⊞  
Countries ⊞  
Data access ⊞  
Database access ⊞  
Data licenses ⊞  
Data upload ⊞  
Data upload restrictions ⊞  
Enhanced publication ⊞  
Institution responsibility type ⊞  
Institution type ⊞  
Keywords ⊞  
Metadata standards ⊞  
PID systems ⊞  
Provider types ⊞  
Quality management ⊞  
Repository languages ⊞  
Repository types ⊞  
Versioning ⊞

Nordicana d

Search

Toggle short help

← Previous 1 Next →

icons

Sort by ▾

Found 1 result(s)

**Nordicana D**

Nordicana D collection



Subject(s)

Geosciences (including Geography) Natural Sciences

Content type(s)

Raw data Structured graphics Images Scientific and statistical data formats

Plain text

Country

Canada

Nordicana series D is a formatted, online data report series archived at CEN. It is produced only in electronic form and is freely and openly accessible to CEN researchers and to other users. Each issue is published in French and in English, and is indexed via an assigned digital object identifier (DOI). An issue may be updated, for example with new data, as a new version number, but will retain the same DOI. Each issue contains data sets and extensive metadata that explain the origin of the data, the format of the data, the history of updates via different version numbers, and the format that should be adopted to cite the data.

# Nordicana D

**General**

Institutions

Terms

Standards

Name of repository	Nordicana D
Additional name(s)	Nordicana D collection La collection Nordicana D
Repository URL	<a href="http://www.cen.ulaval.ca/nordicanad/en_index.aspx">http://www.cen.ulaval.ca/nordicanad/en_index.aspx</a>
Subject(s)	Geosciences (including Geography) Natural Sciences
Description	Nordicana series D is a formatted, online data report series archived at CEN. It is produced only in electronic form and is freely and openly accessible to CEN researchers and to other users. Each issue is published in French and in English, and is indexed via an assigned digital object identifier (DOI). An issue may be updated, for example with new data, as a new version number, but will retain the same DOI. Each issue contains data sets and extensive metadata that explain the origin of the data, the format of the data, the history of updates via different version numbers, and the format that should be adopted to cite the data.
Contact	<a href="http://www.cen.ulaval.ca/nordicanad/en_joindre.aspx">http://www.cen.ulaval.ca/nordicanad/en_joindre.aspx</a>
Content type(s)	Raw data Structured graphics Images Scientific and statistical data formats Plain text
Keyword(s)	SILA Network ADAPT IPY-ArcticWOLVES northern regions environmental change ecosystems geosystems climate warming
Repository type(s)	disciplinary
Mission statement for designated community	<a href="http://www.cen.ulaval.ca/nordicanad/en_index.aspx">http://www.cen.ulaval.ca/nordicanad/en_index.aspx</a>
Research data repository language(s)	eng fra
Data and/or service provider	dataProvider

## Details: General

**Subjects/Disciplines:**  
controlled list: DFG-based

**Keywords:** free text

**Repository types:**

- Disciplinary
- Governmental
- Institutional
- Multidisciplinary
- project-related
- other



General

Institutions

**Terms**

Standards

**Policies (2)**

Policy Name	Terms of use
URL	<a href="http://www.cen.ulaval.ca/nordicanad/en_modalite.aspx">http://www.cen.ulaval.ca/nordicanad/en_modalite.aspx</a>
Policy Name	Nordicana D and CEN Data Policy
URL	<a href="http://www.cen.ulaval.ca/nordicanad/document/en_datapolicy.pdf">http://www.cen.ulaval.ca/nordicanad/document/en_datapolicy.pdf</a>

**Database access**

Type of access to research data repository

open

**Data access (1)**

Type of access to data

open

**Data licenses (1)**

DataLicense	other
URL	<a href="http://www.cen.ulaval.ca/nordicanad/document/en_datapolicy.pdf">http://www.cen.ulaval.ca/nordicanad/document/en_datapolicy.pdf</a>

**Data upload (1)**

Type of data upload

restricted

Data upload restriction type(s)

institutional membership

# Details: Terms

**Database access**

- open
- embargoed
- restricted
- closed

**Data access**

- open
- restricted
- closed

**Data upload**

- open
- restricted
- closed

Fee required

Institutional membership registration



# Registration Workflow

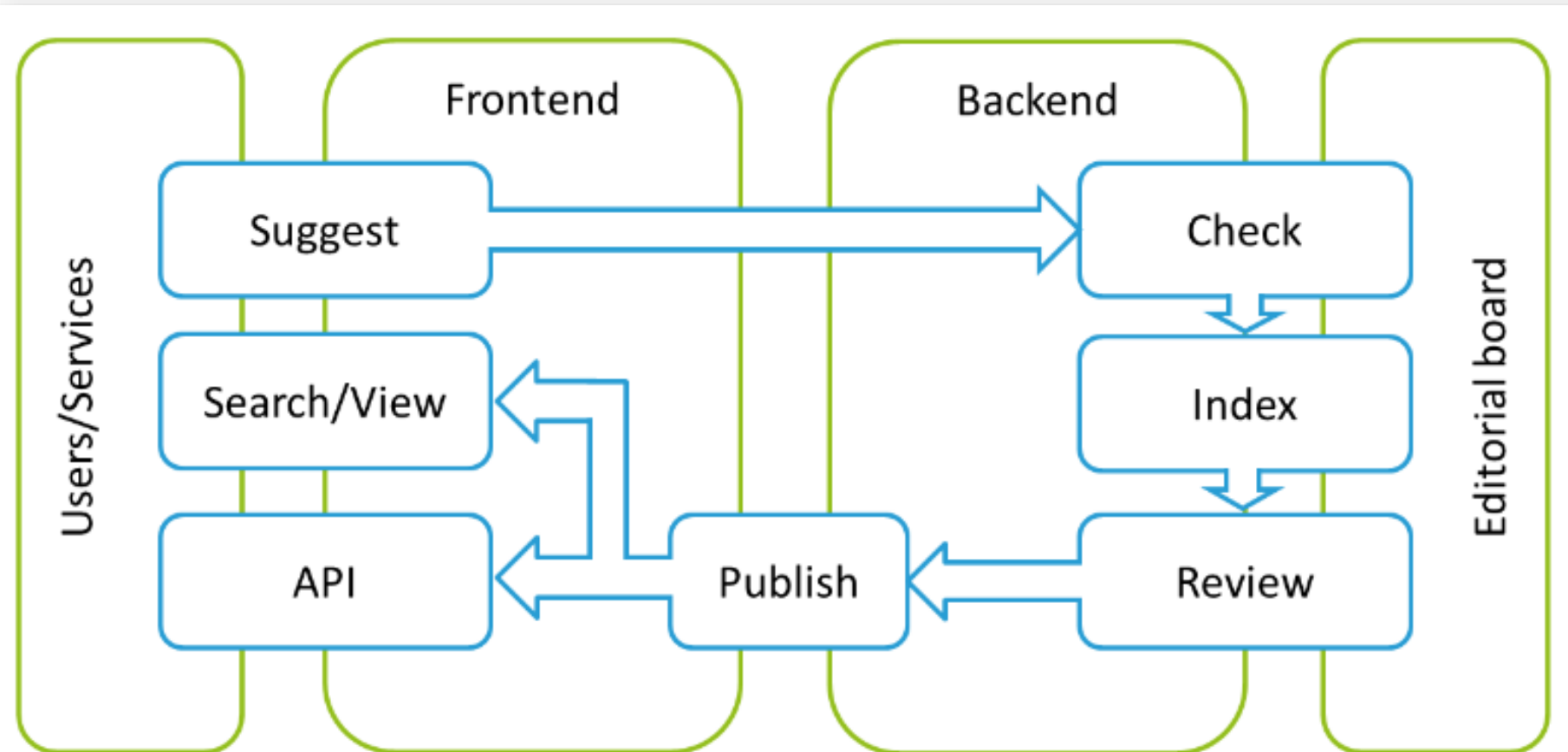


Figure 1: Research Data Repository Registration Workflow of re3data.org

# Updates and New Records

update

## Suggest a repository

new

### 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.

A research data repository listed in re3data.org is either:

- a data provider if it offers research data and its metadata (ideally exposing metadata via interfaces),

and/or

- a service provider (e.g. a portal) if it harvests the metadata of research data from data providers as a basis for building value-added services.

For the re3data.org research data repository registration workflow see our [FAQ](#).

If you find a research data repository missing from our list, we are open to suggestions. Please use the following form:

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"/>

## 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	<input type="text" value="Nordicana D"/>
Repository name language	<input type="text" value="English"/>
Additional names	Text <input type="text" value="Nordicana D collection"/> <input type="button" value="Remove"/>
	Language <input type="text" value="English"/>
Additional names	Text <input type="text" value="La collection Nordicana D"/>
	Language <input type="text" value="French"/>
<input type="button" value="+ Add additionalNames"/>	
Repository url	<input type="text" value="http://www.cen.ulaval.ca/nordicanad/en_index.aspx"/>
Subjects	Name <input type="text" value="34 Geosciences (including Geography)"/> <input type="button" value="Remove"/>
	Scheme <input type="text" value="DFG"/>
	Name <input type="text" value="3 Natural Sciences"/> <input type="button" value="Remove"/>

pre-filled  
metadata  
fields



# Feature: BADGES

Get a re3data badge for your repository website!

Link to the re3data record!

**BCO-DMO**  
Biological & Chemical Oceanography Data Management Office

DATA RESOURCES ABOUT US

Enter search terms

**DATABASE**

Programs	47
Projects	1,262
Deployments	3,082
Platforms	622
Datasets	9,709
Publications	2,460
Instruments	515
Parameters	1,451
People	2,987
Affiliations	626
Funding	99
Awards	2,315

### About Us

BCO-DMO, located at the [Woods Hole Oceanographic Institution](#), is a combination of the formerly independent Data Management Offices formed in support of the US JGOFS and US GLOBEC programs. The BCO-DMO staff members are the curators of the data collections created by those respective programs, as well as data from more recent NSF Geosciences Directorate (GEO) Division of Ocean Sciences (DOS), Biological and Chemical Oceanography Sections, Division of Polar Programs (PLR) Antarctic Sciences (ANT) Organisms & Ecosystems, and Arctic Sciences (ARC) awards. The BCO-DMO project is funded by NSF OCE and ANT programs, NSF award number OCE-1435578.

A more complete description of BCO-DMO is available as a [downloadable PDF file \(1.2 MB\)](#) as well as [online documentation describing the BCO-DMO data management model](#).

To **contact** us, please send email to [info@bc0-dmo.org](mailto:info@bc0-dmo.org). Thank you.

MEET THE BCO-DMO TEAM

CERTIFICATIONS

[re3data.org](#)  
REGISTRY OF RESEARCH DATA REPOSITORIES  
http://dx.doi.org/10.17616/R37P4C  
The Biological and Chemical Oceanography Data...

## Re3Data badge for repository - r3d100010134

You can make use of SVG (Scalable Vector Graphics) or Rasterized PNG. Badges are generated in two different sizes for light and dark color schemes

Light theme, 300x250 size:

re3data.org  
REGISTRY OF RESEARCH DATA REPOSITORIES

SVG 300x250  
Download SVG  
Download PNG  
HTML for SVG  
HTML for PNG

Dark theme, 300x250 size:

re3data.org  
REGISTRY OF RESEARCH DATA REPOSITORIES

SVG 300x250  
Download SVG  
Download PNG  
HTML for SVG  
HTML for PNG

Light theme, 300x100 size:

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SVG 300x100  
Download SVG  
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HTML for SVG  
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Dark theme, 300x100 size:

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SVG 300x100  
Download SVG  
Download PNG  
HTML for SVG  
HTML for PNG

Warning: If you download the SVG make sure that your server returns SVG files with the right content-type header. For details see: [Serve SVG with correct content-type](#)

re3data.org

Search Browse Suggest Resources Contact DataCite

Repository details

### Biological and Chemical Oceanography Data Management Office

General Institutions Terms Standards

Name of repository: Biological and Chemical Oceanography Data Management Office

Additional name(s): BCO-DMO

Repository URL: <https://www.bco-dmo.org/>

Subject(s): Atmospheric Science Oceanography Atmospheric Science and Oceanography Ocean Sciences (Including Geograph) Natural Sciences

Description: The Biological and Chemical Oceanography Data Management Office (BCO-DMO) is a publicly accessible earth science data repository created to curate, publicly serve (publish), and archive digital data and information from biological, chemical and biogeochemical research conducted in coastal, marine, great lakes and laboratory environments. The BCO-DMO repository works closely with investigators funded through the NSF OCE Division's Biological and Chemical Sections and the Division of Polar Programs Antarctic Organisms & Ecosystems. The office provides services that span the full data life cycle, from data management planning support and DOI creation, to archive with appropriate national facilities.

Contact: [info@bc0-dmo.org](mailto:info@bc0-dmo.org)

Content type(s): Source code Plain text Images Structured text Scientific and statistical data formats Software applications Databases

# re3data coref

COMMUNITY DRIVEN OPEN REFERENCE FOR  
RESEARCH DATA REPOSITORIES

- Provide **customizable and extendable core repository descriptions** that are **persistently identifiable** and can be appropriately **referenced and cited**.
- Update and expand the **metadata schema**.
- Develop further options for **automated data exchange** (M2M) between re3data and other services.
- Improve the **(re-)use** of re3data, its API and metadata. Build **new widgets** that take recent requirements of stakeholders into account.
- Provide more functions for **monitoring and recommendation**, for example of repositories that enable FAIR data practices (cooperation with EU project [FAIRsFAIR](#)).
- All the above activities are carried out according to a **new service model** for re3data.



**Main project goal:**  
Position re3data as the  
reference for research  
data repositories with  
other services and  
infrastructures.



HELMHOLTZ  
Open Science



KIT  
Karlsruher Institut für Technologie

GFZ  
Helmholtz Centre  
POTSDAM

Funding organisation:

Funded by

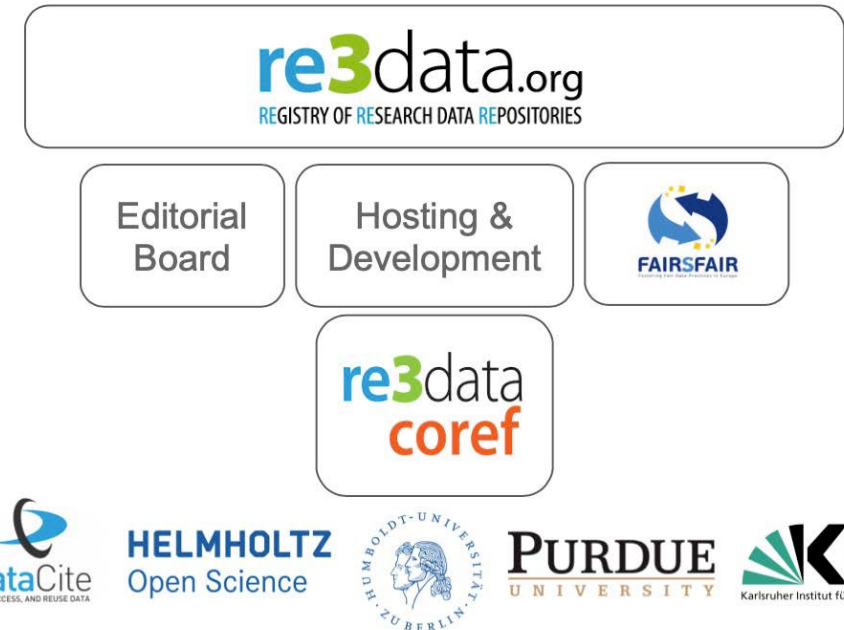
DFG

Deutsche  
Forschungsgemeinschaft  
German Research Foundation

# re3data COREF Project

- Projektlaufzeit: 36 Monate, Januar 2020 gestartet
- Berlin School of Library and Information Science at the Humboldt-Universität zu Berlin
- DataCite - International Data Citation Initiative e. V.
- Helmholtz Association's Open Science Office at the GFZ German Research Centre for Geosciences
- KIT Library at the Karlsruhe Institute of Technology
- The project partners actively participate in national and international initiatives on research data management (DINI, RDA).

Gefördert durch: **DFG** Deutsche  
Forschungsgemeinschaft



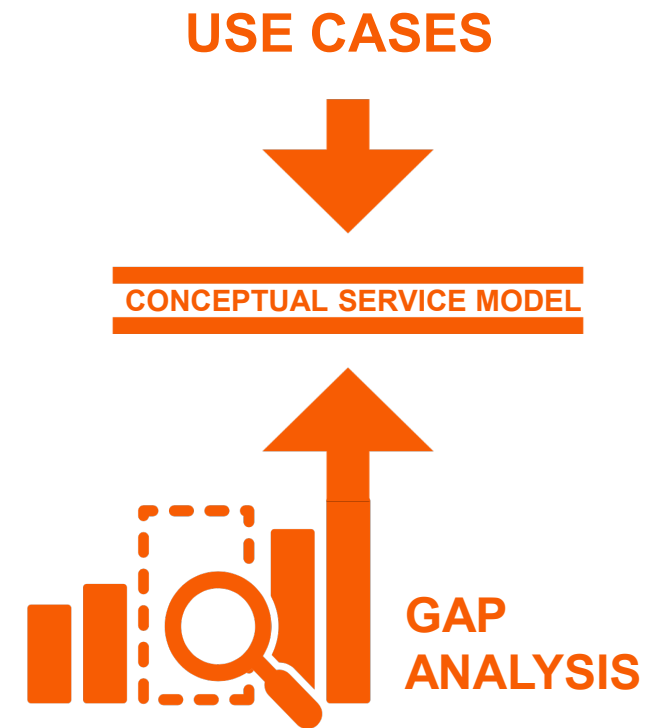
Visit the project blog:  
[coref.project.re3data.org](http://coref.project.re3data.org)

# re3data Service Model Update: Most common use cases

Feedback was collected via a **survey** and **workshops** with 21 stakeholders to identify relevant **use cases** and **requirements**.

1. Search and discovery of research data repositories
2. Reusing re3data metadata
3. Administrating re3data metadata
4. Referencing

Soon to be published...



# Revision of the metadata schema: New Version 3.1

- **Schema Revision Step 1** – Version 3.1 introduces two major changes, based on preliminary work within the FAIRsFAIR project:

*“certificate”*: Version 3.1 will expand descriptions of repository certification. References to a document outlining details of the certificate as well as certification start and end date will describe the certification status in greater detail.

*“profile”*: The new property *profile* provides the opportunity to identify a subset of repositories indexed in re3data pre-defined by a third party based on community-developed criteria. Each profile has to provide a URL outlining the selection criteria.

- **Schema Revision Step 2** – Version 4.0 (towards the end of the project)
- Mapping re3data metadata to **schema.org**
- **RDF** implementation

We received ~150 comments to our **Open Request for Comments:**  
[coref.project.re3data.org/blog/request-for-comments-version-3-1-of-the-re3data-metadata-schema](https://coref.project.re3data.org/blog/request-for-comments-version-3-1-of-the-re3data-metadata-schema)

## Quality & Transparency: Making research data quality assurance visible

- Analysis of **data journal** guidelines (sample of 142 data journals and 173 guideline documents)
- **Survey on data quality management at research data repositories** (330 complete responses)
  - Results will be considered in the **update of the metadata schema** to provide information on quality assurance standards and measures for research data repositories
- Review of the re3data **editorial process**
- Building a **Model of Trust for metadata editing**
- Implementing the usage of **authority files** (ORCID)





# FAIRsFAIR Project: Improved Description of Data Repositories

Together with DataCite, re3data is building services and going to provide tools for **finding and selecting FAIR-enabling repositories** to researchers and other stakeholders.

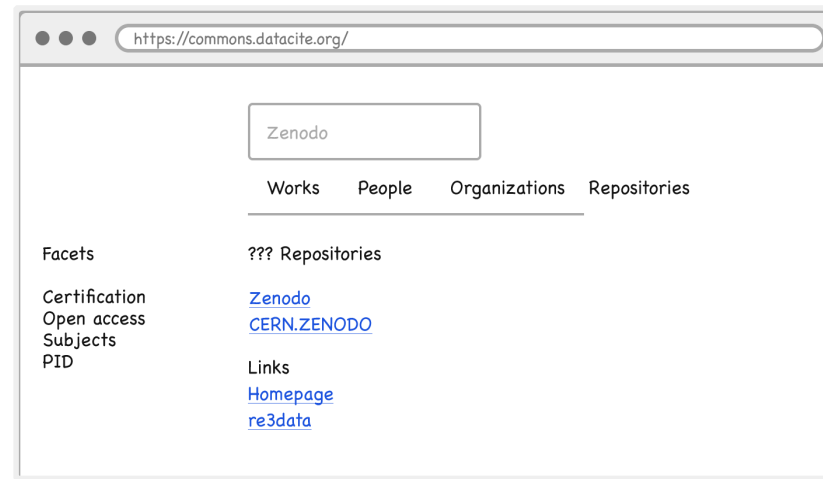
[More Details: doi.org/10.5281/zenodo.4590336](https://doi.org/10.5281/zenodo.4590336)



## FAIRsFAIR Project: DataCite Commons Integration

For easy discovery of FAIR-enabling repositories the DataCite [Repository Finder](#) is going to be **transitioned into DataCite Commons**. With this integration, research data repositories can be connected and explored within the **PID Graph**. re3data serves as an important **metadata source** for DataCite Commons.

[More details:](#)  
[doi.org/10.5281/zenodo.4590298](https://doi.org/10.5281/zenodo.4590298)



Planned transition into [commons.datacite.org](https://commons.datacite.org)

Provide feedback for 'Repository Search in DataCite Commons' via the **DataCite product board**:  
[datacite.org/roadmap.html](https://datacite.org/roadmap.html)

Themenkreis 5: Content und Digitalisierung, Raum 3 (virtuell)

Freitag, 18. Juni, 13:30 - 15:00

Repositorien: Verzeichnis und Betrieb

**re3data.org**  
REGISTRY OF RESEARCH DATA REPOSITORIES

THANK YOU!



**re3data COREF -  
Ausbau und  
Weiterentwicklung  
des Registry of  
Research Data  
Repositories**

Project Blog:  
[coref.project.re3data.org](http://coref.project.re3data.org)

**re3data  
coref**

Fragen & Anregungen?  
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Twitter: [@re3data](https://twitter.com/re3data)

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