

CURRENT STATUS & FUTURE PLANS



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Helmholtz Open Science Webinar on Research Data
Webinar 31 – December 3th / 8th, 2015

AGENDA

CURRENT STATUS

- Background
- Mission
- Schema
- Registration Workflow

FUTURE PLANS

- **NEW** Functionalities
- **NEW** Features
- Sustainability

CURRENT STATUS

BACKGROUND

FUNDERS DATA POLICIES



29.3 Open access to research data

[OPTION for actions participating in the open Research Data Pilot: Regarding the digital research data generated in the action ('data'), the beneficiaries must:

- (a) deposit in a research data repository and take measures to make it possible for third parties to access, mine, exploit, reproduce and disseminate — free of charge for any user — the following:
 - (i) the data, including associated metadata, needed to validate the results presented in scientific publications as soon as possible;
 - (ii) other data, including associated metadata, as specified and within the deadlines laid down in the 'data management plan' (see Annex 1);
- (b) provide information — via the repository — about tools and instruments at the disposal of the beneficiaries and necessary for validating the results (and — where possible — provide the tools and instruments themselves).



Seite 1 von 2

Deutsche
Forschungsgemeinschaft

Leitlinien zum Umgang mit Forschungsdaten

Forschungsdaten sind eine wesentliche Grundlage für das wissenschaftliche Arbeiten. Die Vielfalt solcher Daten entspricht der Vielfalt unterschiedlicher wissenschaftlicher Disziplinen, Erkenntnisinteressen und Forschungsverfahren. Zu Forschungsdaten zählen u.a. Messdaten, Laborwerte, audiovisuelle Informationen, Texte, Surveydaten, Objekte aus Sammlungen oder Proben, die in der wissenschaftlichen Arbeit entstehen, entwickelt oder ausgewertet werden. Methodische Testverfahren, wie Fragebögen, Software und Simulationen können ebenfalls zentrale Ergebnisse wissenschaftlicher Forschung darstellen und sollten daher ebenfalls unter den Begriff Forschungsdaten gefasst werden. Die langfristige Sicherung und Bereitstellung der Forschungsdaten leistet einen Beitrag zur Nachvollziehbarkeit und Qualität der wissenschaftlichen Arbeit und eröffnet wichtige Anschlussmöglichkeiten für die weitere Forschung. Die Allianz der Wissenschaftsorganisationen hat sich bereits mit den Jahr 2010 verabschiedeten „Grundsätzen zum Umgang mit Forschungsdaten“ für die langfristige Sicherung von, der grundsätzlich offenen Zugang zu und die Berücksichtigung fachdisziplinärer Regularien im Umgang mit Forschungsdaten ausgesprochen. Die „Leitlinien zum Umgang mit Forschungsdaten“ konkretisieren den mit den „Grundsätzen“ vorgegebenen Rahmen im Kontext der DFG-Förderregularien.

European Commission. (2014). Horizon 2020 Annotated Model Grant Agreements. Version 1.6.2.
Retrieved from http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf

http://www.dfg.de/download/pdf/foerderung/antragstellung/forschungsdaten/richtlinien_forschungsdaten.pdf

BACKGROUND

JOURNAL DATA & EDITORIAL POLICIES



nature publishing group

*“[...] authors are **required** to make materials, data and associated protocols promptly available to readers without undue qualifications.”*



*“PLOS journals **require** authors to make all data underlying the findings described in their manuscript fully available without restriction, with rare exception.”*



“Please find your appropriate data repository in the Registry for Research Data Repositories re3data.org.”

MISSION

- ✓ o **global** registry of research data repositories
- ✓ o covering **all** academic disciplines
- ✓ o helps researchers, funding bodies, publishers, libraries and scholarly institutions to **find** research data repositories
- ✓ o promotes a culture of **sharing**, increased **access** and better **visibility** of research data

SCHEMA

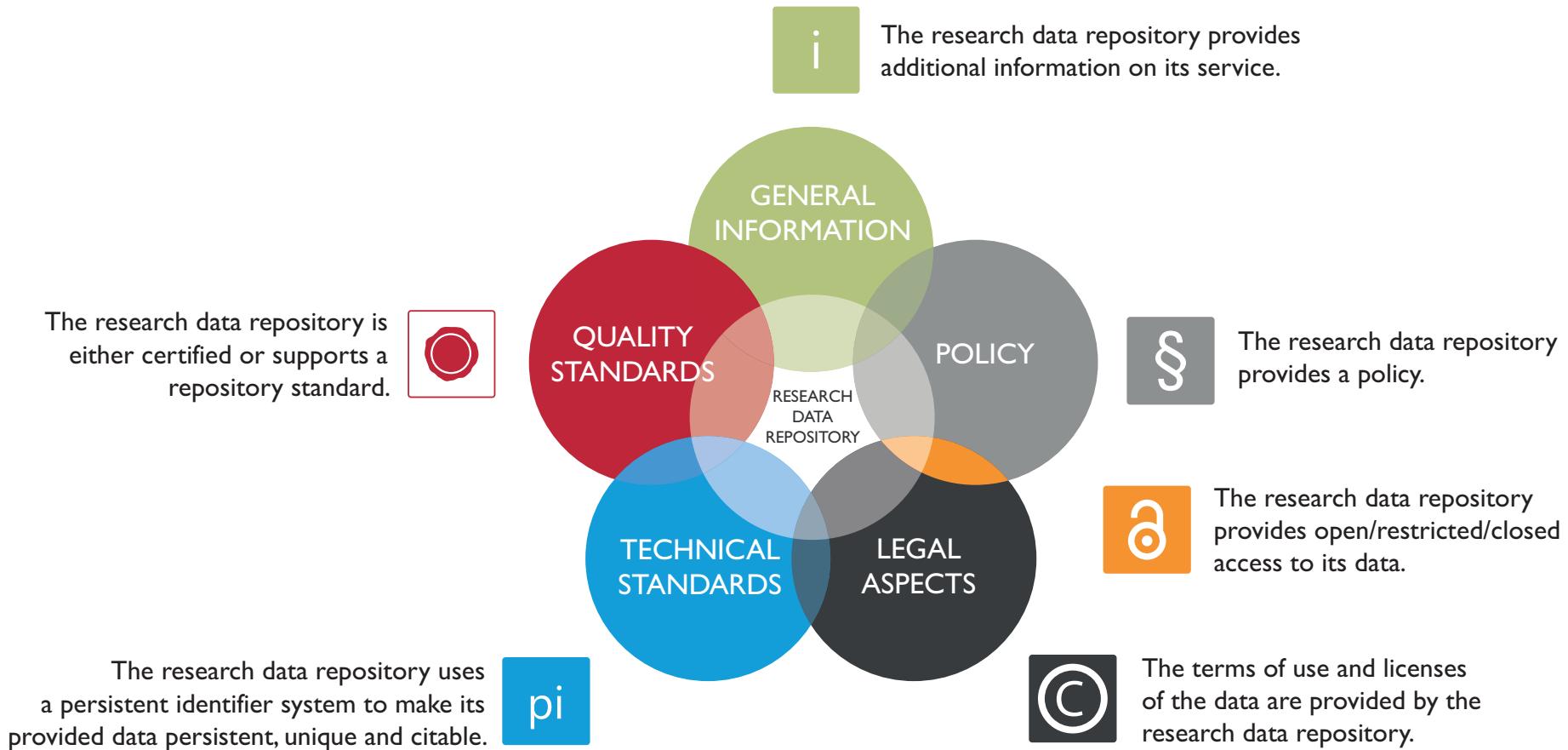


39 Properties

Based on Analyses,
Feedback and Experience

Version 2.2

ICONS

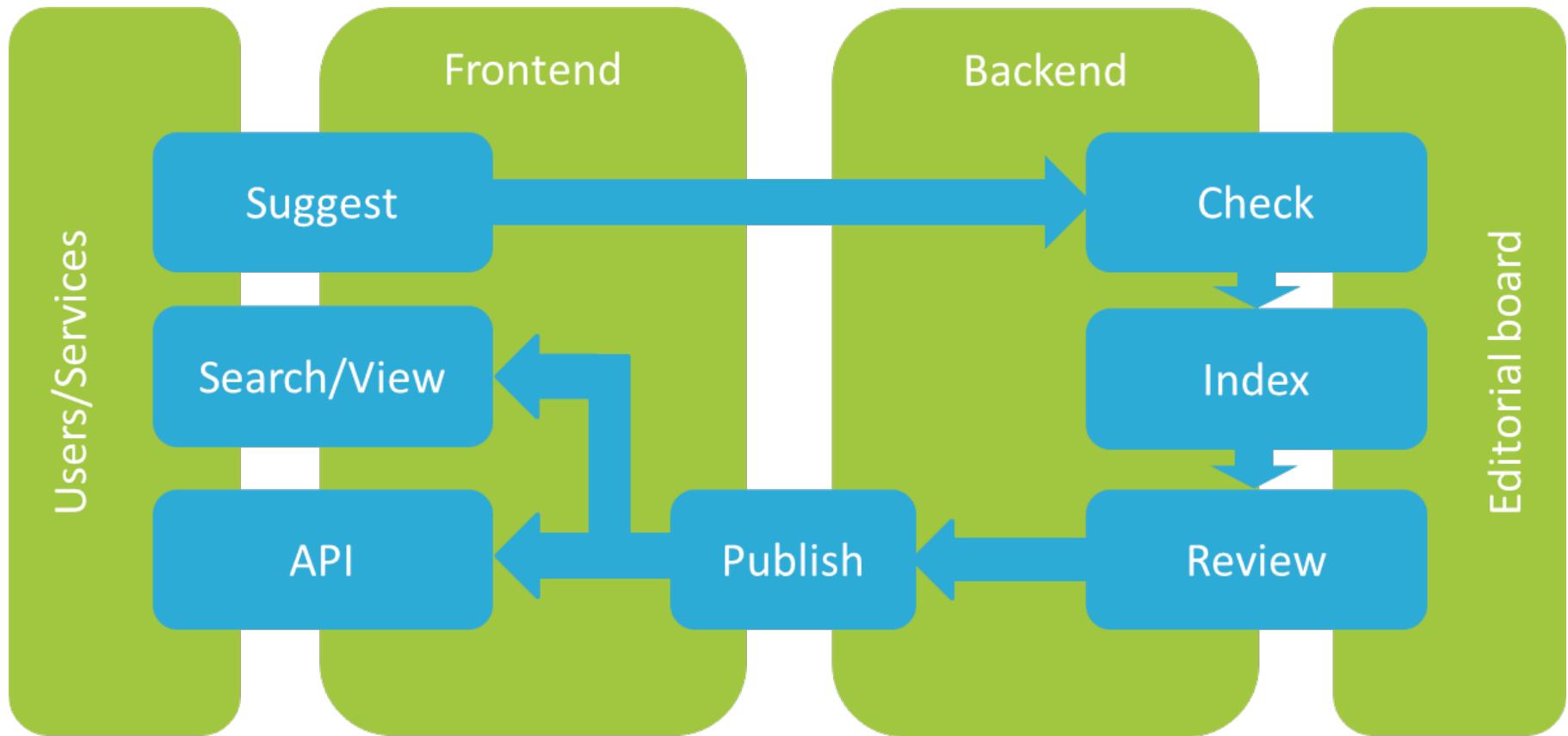


REGISTRATION POLICY

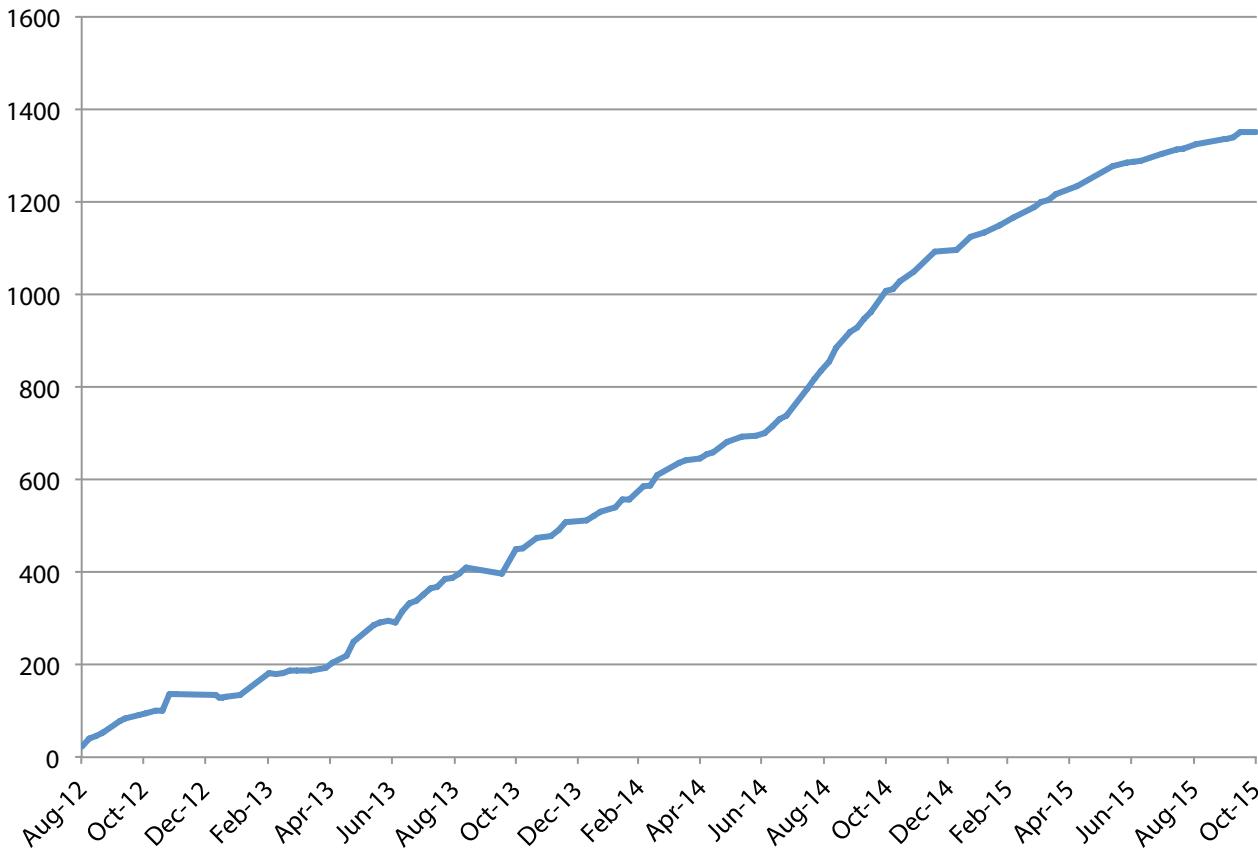
To be registered in re3data.org a research data repository must

- 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 an **English graphical user interface (GUI)**;
- have **focus on research data**.

REGISTRATION WORKFLOW



GROWTH



1400

Research data
repositories indexed in

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

FUTURE PLANS

SUGGEST FORM

NEW

Required information

Repository name

Repository url

Description

Data licenses

 Add dataLicenses

Suggester's contact

General (optional)

Institutes (optional)

Terms (optional)

Standards (optional)

Further comments

Suggest

FACETED SEARCH

NEW

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

Content Types

Scientific and statistical data formats (870)
Standard office documents (773)
Images (679)
Plain text (679)
Raw data (578)
Structured graphics (532)
Structured text (488)
other (434)
Archived data (331)
Software applications (254)
Audiovisual data (251)
Databases (199)
Networkbased data (104)
Source code (49)
Configuration data (26)

Countries

United States (701)
Germany (218)
United Kingdom (187)
International (95)
European Union (90)
Canada (78)
France (64)
Australia (58)
Japan (11)

Search...

 Search

← Previous 1 2 3 4 5 6 7 ... 55 Next →

Found 1367 result(s)

PubChem



Subject(s)

Basic Biological and Medical Research Chemistry Biology Life Sciences

Natural Sciences

Content type(s)

Databases Images Structured graphics

Scientific and statistical data formats Raw data Plain text Structured text

Country

United States

Pubchem contains 3 databases. 1.PubChem BioAssay: The PubChem BioAssay Database contains bioactivity screens of chemical substances described in PubChem Substance. It provides searchable descriptions of each bioassay, including descriptions of the conditions and readouts specific to that screening procedure. 2.PubChem Compound: The PubChem Compound Database contains validated chemical depiction information provided to describe substances in PubChem Substance. Structures stored within PubChem Compounds are pre-clustered and cross-referenced by identity and similarity groups. 3.

ICSU World Data System



International Council for Science World Data System

Subject(s)

Humanities and Social Sciences Life Sciences Natural Sciences

Engineering Sciences

PROFILE PAGE

Repository details

PANGAEA



NEW

General Institutions Terms Standards

Name of repository	PANGAEA
Additional name(s)	Data Publisher for Earth and Environmental Science
Repository URL	http://www.pangaea.de
Subject(s)	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
Description	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.
Content type(s)	Standard office documents Images Plain text Archived data Audiovisual data
Keyword(s)	Earth Science Environmental Science
Repository type(s)	disciplinary
Research data repository language(s)	eng
Data and/or service provider	dataProvider
Back to search	Submit a change request Get a badge



Cite this re3data.org record:

re3data.org: PANGAEA; editing status 2015-11-13; re3data.org - Registry of Research Data Repositories.
<http://doi.org/10.17616/R3XS37> last accessed: 2015-12-01

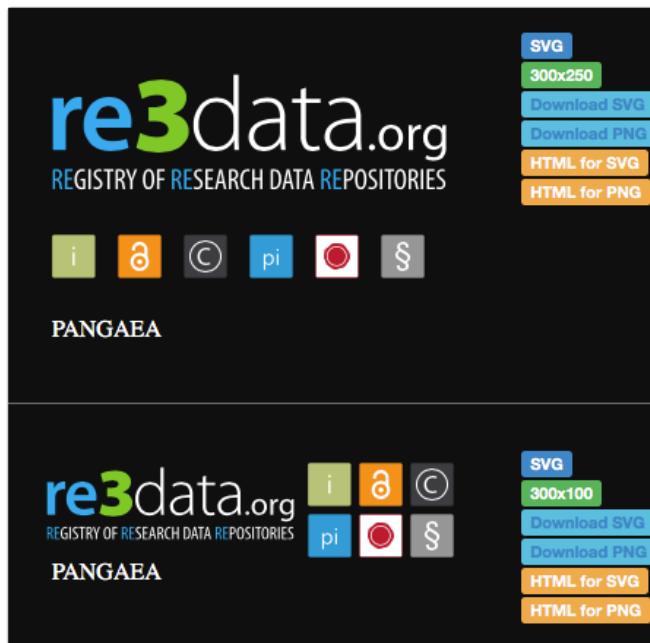
GET A BADGE

NEW

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

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



Hint: 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](#)

CHANGE REQUEST



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Submit a change request

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

General			
Repository name	PANGAEA		
Repository name language	English		
Additional names	Text	Data Publisher for Earth and Environmental Science	<input type="button" value="Remove"/>
	Language	English	<input type="button" value="Add additionalNames"/>
Repository url	http://www.pangaea.de		
Subjects	Text	31302 Oceanography	<input type="button" value="Remove"/>

SEARCH WIDGET



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

re3data.org search widgets

Preview

Q Search on re3data.org

Snippet Flexible Width Minimum: 300px

```
<link
href="//maxcdn.bootstrapcdn.com/fontawesome/4.1.0/css/fontawesome.min.css" rel="stylesheet"><div
id="searchwidget1" style="min-width:
300px !important;">
<div class="searchwidget-r3d-logo">
```

Search Widget uses [Font Awesome Toolkit](#)

Preview

Q Search on re3data.org

Snippet Flexible Width Minimum Width: 500px

```
<link
href="//maxcdn.bootstrapcdn.com/fontawesome/4.1.0/css/fontawesome.min.css" rel="stylesheet"><div
id="searchwidget2" style="min-width:
500px">
<table style="table-layout: fixed;">
```

Search Widget uses [Font Awesome Toolkit](#)

BROWSING

A circular orange badge with the word "NEW" in white capital letters.

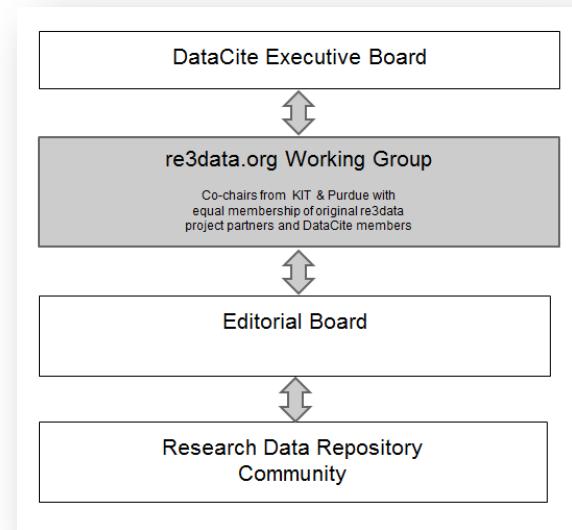


SUSTAINABILITY



SUSTAINABILITY

- Merger with DataBib under the auspices of DataCite
- re3data.org working group within DataCite
- International Editorial Board



SUSTAINABILITY

TECHNICAL

OPEN INTERFACES

- RESTful API
- OpenSearch
 - Used e.g. by OpenAIRE

HOSTING BY



SUSTAINABILITY

OPEN LICENSES

LICENSES



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SUSTAINABILITY



DataCite
FIND, ACCESS, AND REUSE DATA

- Technical maintenance financed by DataCite from 2016
- Further development managed by DataCite
- Further project funding

TEAM

re3data.org

REGISTRY OF RESEARCH DATA REPOSITORIES



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Paul Vierkant



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Maxi Kindling
Jessika Rücknagel
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Gabriele Kloska
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Frank Scholze
Edeltraud Schnepf
Angelika Semrau
Michael Skarupianski
Robert Ulrich



Michael Witt

THANK YOU!

WHERE DO YOU STORE
YOUR RESEARCH DATA?

- USB DRIVE
- DROPBOX
- RESEARCH DATA REPOSITORY

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

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