

# CURRENT STATUS & FUTURE PLANS



Paul Vierkant  
GFZ German Research Centre for Geosciences



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



Open Science

# AGENDA

## CURRENT STATUS

- Background
- Mission
- Schema
- Registration Workflow

## FUTURE PLANS

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

# CURRENT STATUS

# BACKGROUND

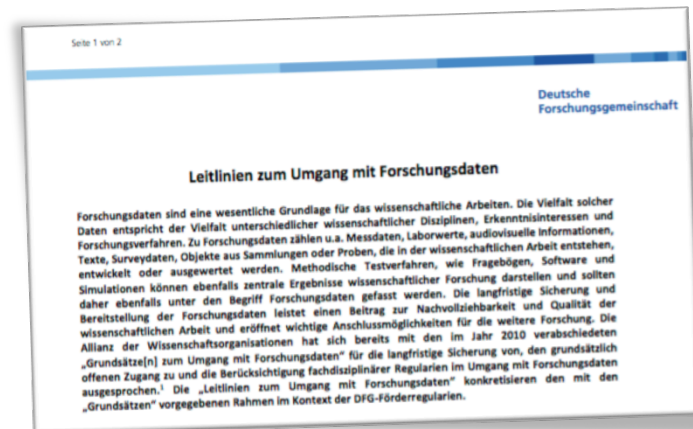
## FUNDERS DATA POLICIES



### 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 I);*
- (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).*



# 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

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

# SCHEMA

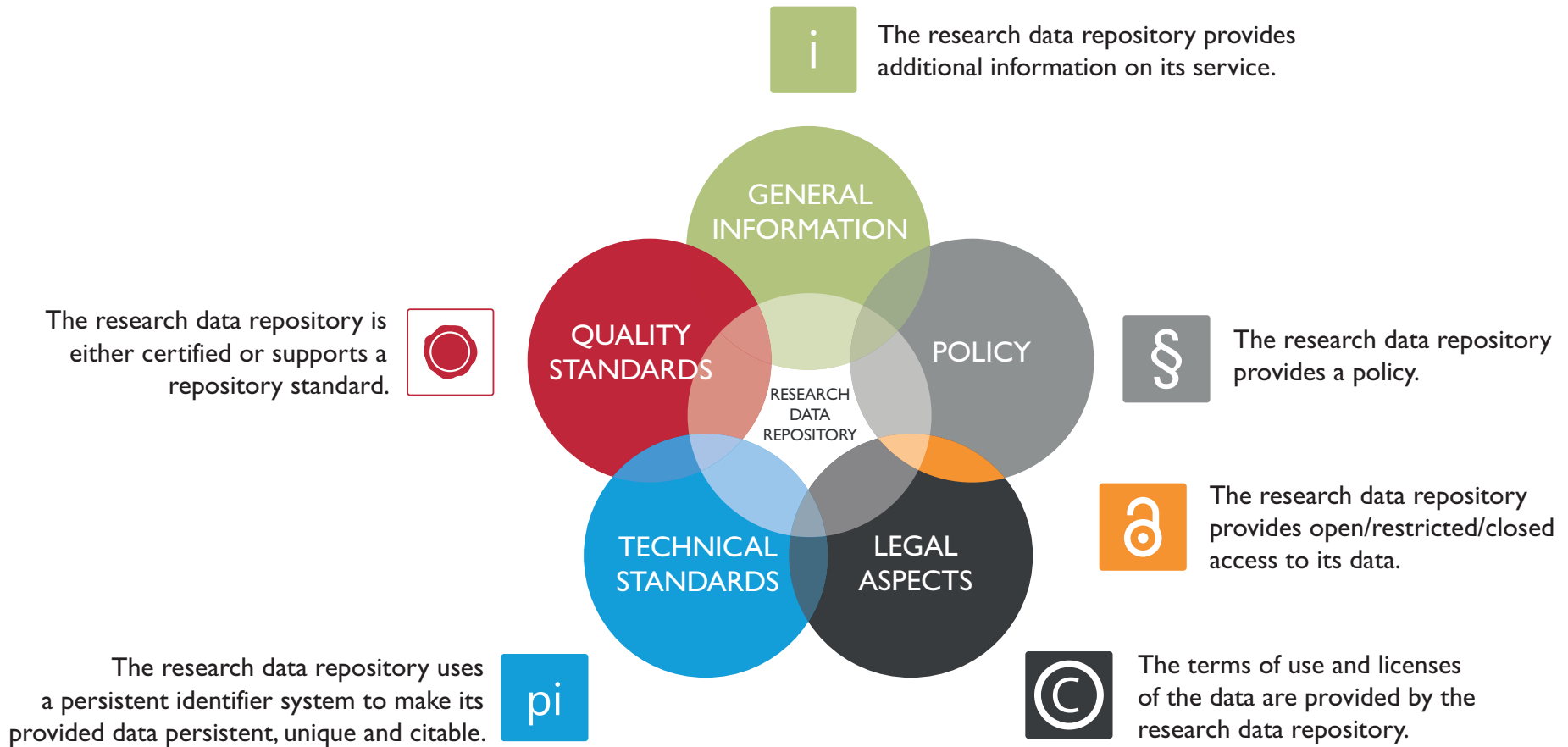


39 Properties

Based on Analyses,  
Feedback and Experience

Version 2.2

# ICONS



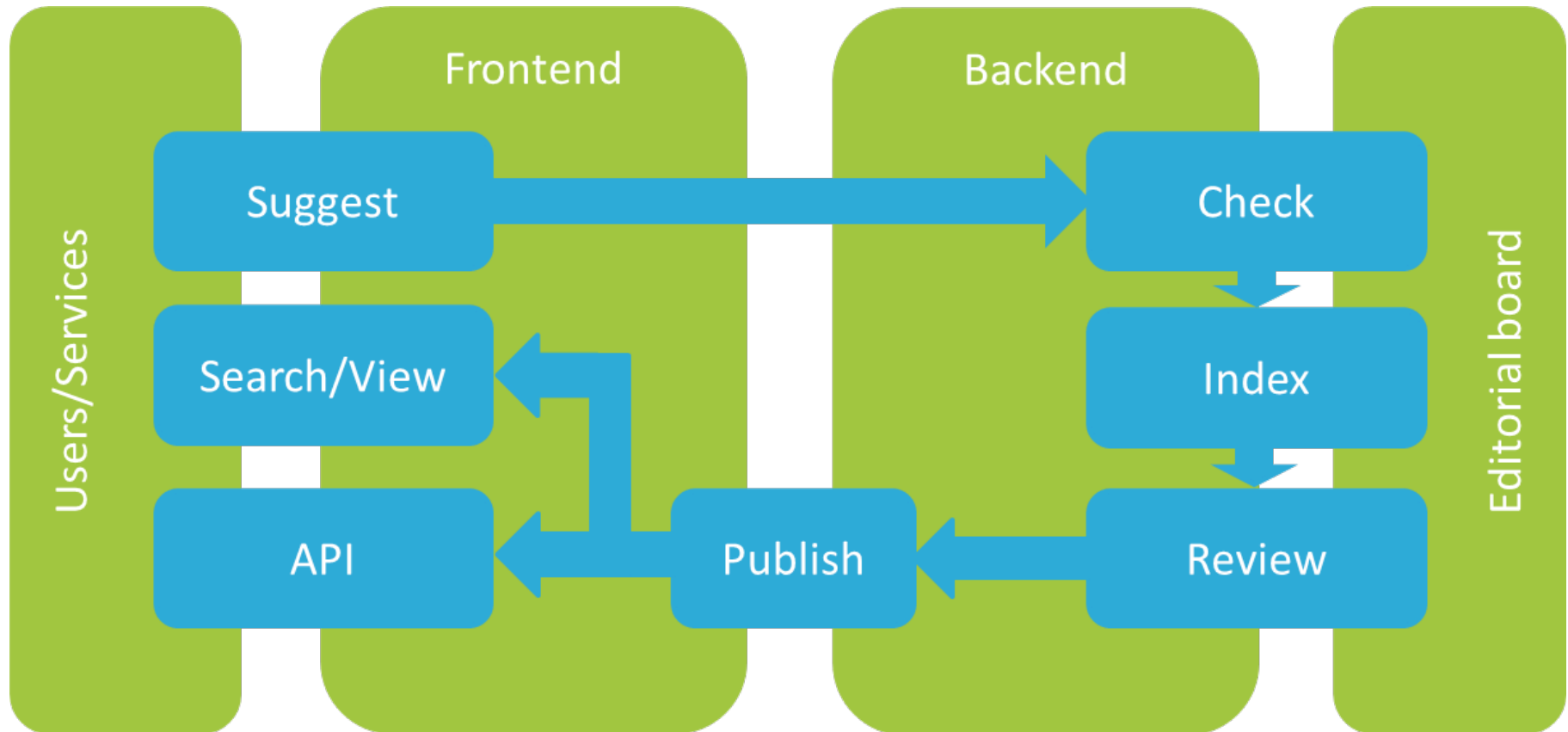


# REGISTRATION POLICY

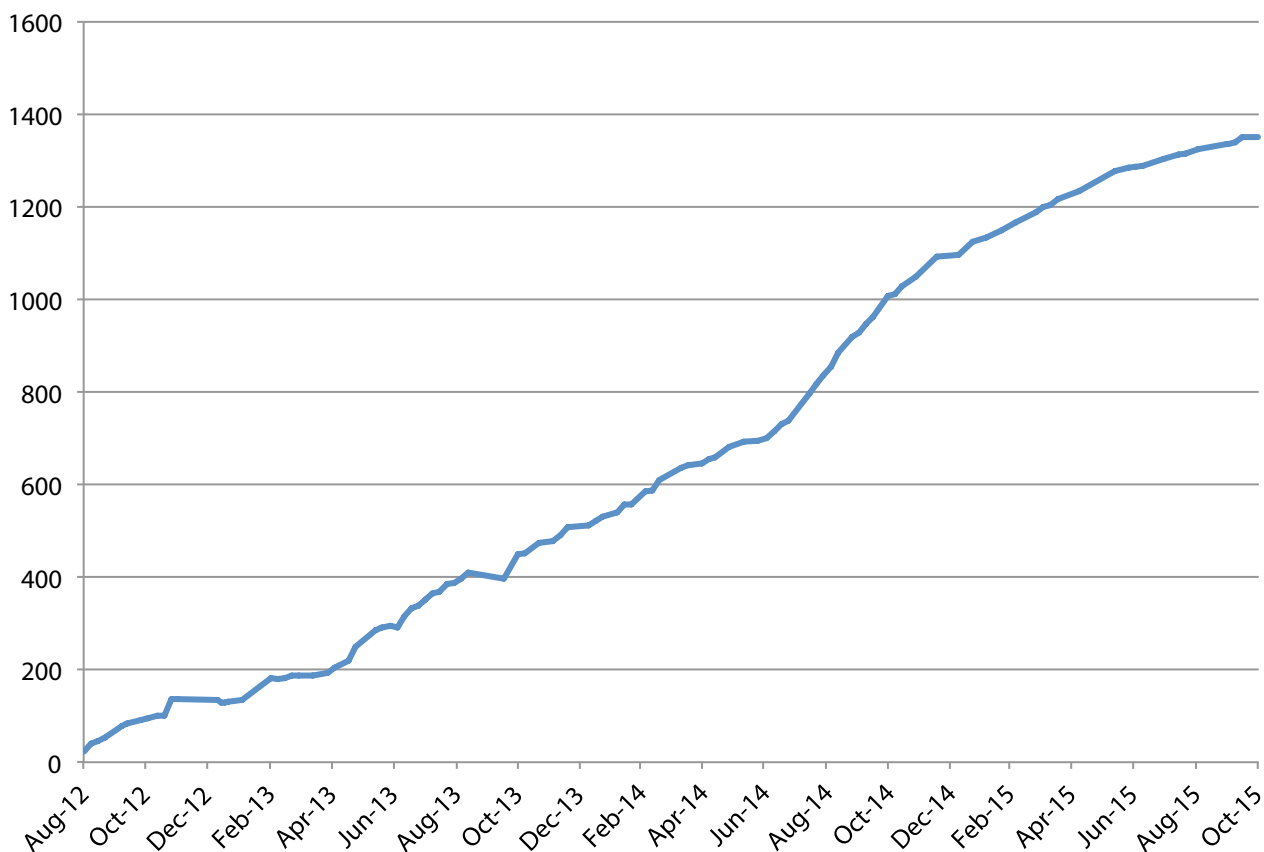
To be registered in re3data.org a research data repository must

- 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



Required information	
Repository name	<input type="text"/>
Repository url	<input type="text"/>
Description	<input type="text"/>
Data licenses	<input type="button" value="+ Add dataLicenses"/>
Suggester's contact	<input type="text"/>
General (optional)	
Institutes (optional)	
Terms (optional)	
Standards (optional)	
Further comments	<input type="text"/>
<input type="button" value="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 (44)

← 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

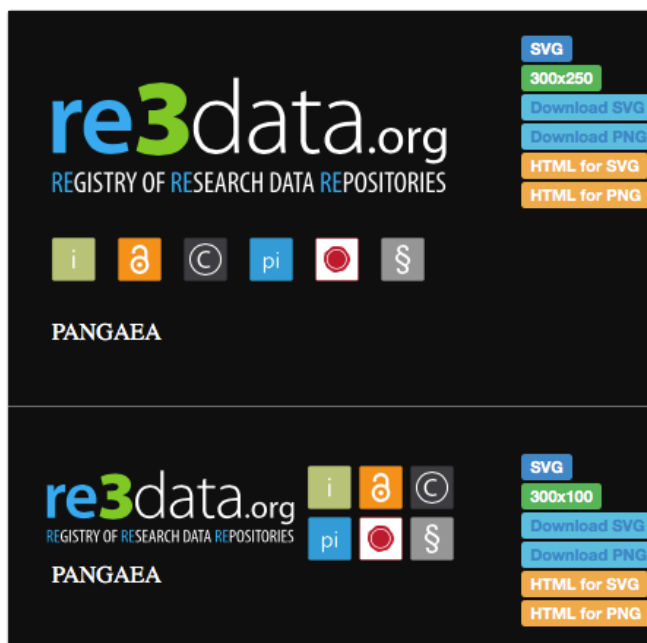
# GET A BADGE



[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](#)



## 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

Remove

**Language**

English

+

 Add additionalNames

**Repository url**

http://www.pangaea.de

**Subjects**

**Text**

31302 Oceanography

Remove

# SEARCH WIDGET

NEW

[Home](#) [Search](#) [Browse](#) [Suggest](#) [FAQ](#) [About](#) [Schema](#) [API](#) [Contact](#) [Legal notice / Impressum](#)

## re3data.org search widgets

Preview

Snippet

Flexible Width

Minimum: 300px

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

Search Widget uses [Font Awesome Toolkit](#)

Preview

Snippet

Flexible Width

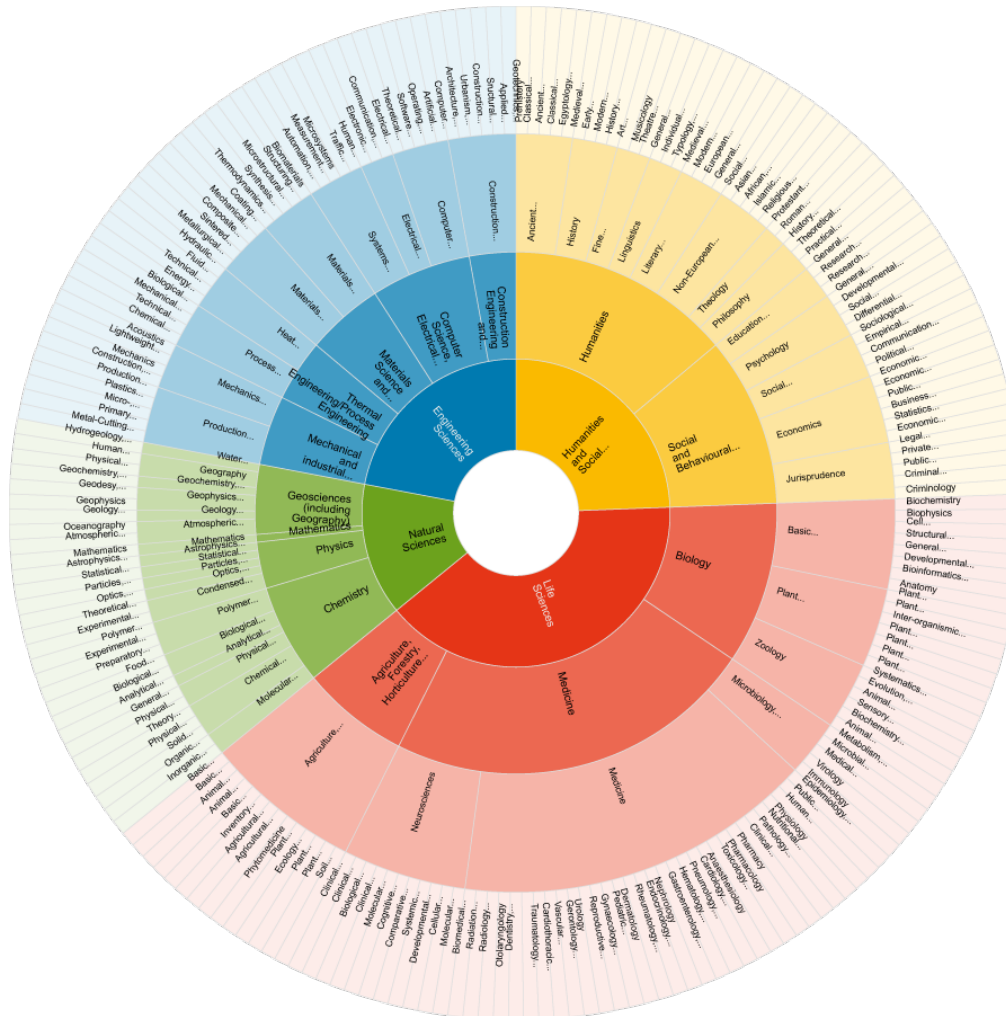
Minimum Width: 500px

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

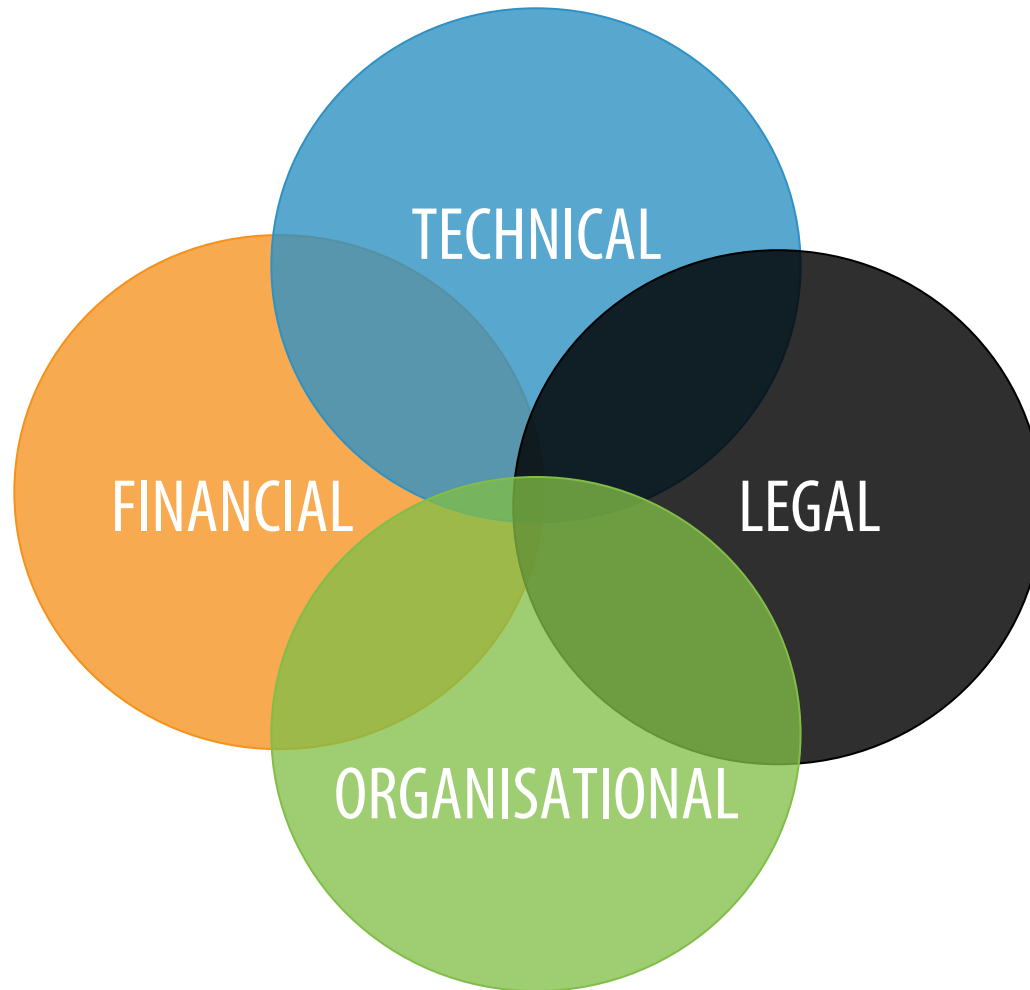
Search Widget uses [Font Awesome Toolkit](#)

# BROWSING

NEW



# SUSTAINABILITY

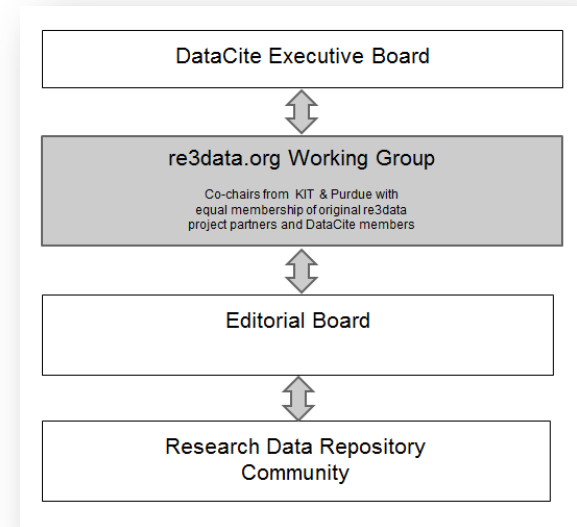


# SUSTAINABILITY

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



ORGANISATIONAL



# SUSTAINABILITY



TECHNICAL

## OPEN INTERFACES

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

## HOSTING BY



# SUSTAINABILITY

## OPEN LICENSES

### LICENSES



Except where otherwise noted, content on this site is licensed under a **Creative Commons Attribution 4.0 International License**.



To the extent possible under law, **re3data.org** has waived all copyright and related or neighboring rights to the database entries of re3data.org.



# SUSTAINABILITY



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



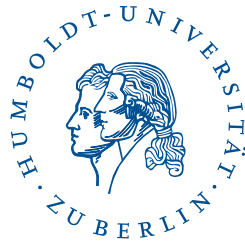
# TEAM

# re3data.org

REGISTRY OF RESEARCH DATA REPOSITORIES



Roland Bertelmann  
Claudio Fuchs  
Heinz Pampel  
Paul Vierkant



Florian Fritze  
Maxi Kindling  
Jessika Rücknagel  
Peter Schirmbacher  
Stephanie van de Sandt



Hans-Jürgen Goebelbecker  
Gabriele Kloska  
Evelyn Reuter  
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

info@re3data.org



With the exception of all photos and graphics, this slides are licensed under the "Attribution 4.0 International (CC BY 4.0)"  
Licence: <http://creativecommons.org/licenses/by/4.0/>