re3data.org – Registry of Research Data Repositories

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Background

- Funders' data policies

  - Example: European Commission

> **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).*

European Commisson. (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

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re3data.org REGISTRY OF RESEARCH DATA REPOSITORIES

Background

- Journals' data policies

  - Example: Nature Publishing Group
    - "[...] authors are required to make materials, data and associated protocols promptly available to readers without undue qualifications."

  - Example: Public Library of Science - PLOS
    - "PLOS journals require authors to make all data underlying the findings described in their manuscript fully available without restriction, with rare exception."

NPG (2013). Availability of data and materials. Retrieved from http://www.nature.com/authors/policies/availability.html
PLOS (2014). PLOS Editorial and Publishing Policies. Retrieved from http://www.plosone.org/static/policies.action

Background

- Jour

- Exa
  -

- Exa
  -

Data Availability

PLOS journals require authors to make all data underlying the findings described in their manuscript fully available, without restriction and from the time of publication, with only rare exceptions to address legal and ethical concerns (see the PLOS Data Policy and FAQ for further details). When submitting a manuscript, authors must provide a Data Availability Statement that describes where the data underlying their manuscript can be found.

Your answers to the following constitute your statement about data availability and will be included with the article in the event of publication. **Please note that simply stating 'data available on request from the author' is not acceptable. *If, however, your data are only available upon request from the author(s), you must answer "No" to the first question below, and explain your exceptional situation in the text box provided.***

Do the authors confirm that all data underlying the findings described in their manuscript are fully available without restriction?

Answer Required: | Please select a response | ▼ | Please select a response.

Please select a response
Yes – all data are fully available without restriction
No – some restrictions will apply

NPG (2013). Availability
PLOS (2014). PLOS Editorial and Publishing Policies. Retrieved from http://www.plosone.org/static/policies.action

re3data.org – Mission

- global registry of research data repositories

- covers 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

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re3data.org – Schema

Properties **39**

Based on Analyses,
Feedback and Experience

Version **2.2**

Vierkant, P., et al. (2014). Schema for the Description of Research Data Repositories. Version 2.2. http://doi.org/10.2312/re3.006

re3data.org – Icons

The research data repository provides additional information on its service.

The research data repository is either certified or supports a repository standard.

The research data repository provides a policy.

The research data repository provides open/restricted/closed access to its data.

The research data repository uses a persistent identifier system to make its provided data persistent, unique and citable.

The terms of use and licenses of the data are provided by the research data repository.

GENERAL INFORMATION

QUALITY STANDARDS

POLICY

RESEARCH DATA REPOSITORY

TECHNICAL STANDARDS

LEGAL ASPECTS

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re3data.org REGISTRY OF RESEARCH DATA REPOSITORIES

re3data.org
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Home   Search   Browse   Suggest   FAQ   About   Schema   API   Contact   Legal notice / Impressum

simple search box

Search for Repositories (1350 reviewed repositories)

geosciences   ✕   🔍 Search

filters

Subject	Content Type	Country (of the responsible institutions)
Add subjects ▾	Add content types ▾	Add countries ▾
		⊕ Germany

☑ 🔴 Certificates ❓   ☑ 🔓 Open Access ❓   ☑ pi Persistent Identifier ❓

Reset filter

results

icons

3 results (filtered) (1 – 3) ▾   Sort by Weight ▾

PANGAEA   i 🔓 © doi 🔴 §
Data Publisher for Earth and Environmental Science

Subjects: Atmospheric Science and Oceanography | Biology | Geochemistry, Mineralogy and Crystallography | Geochemistry, Mineralogy and Crystallography | Geology and Palaeontology | Geology and Palaeontology | Geophysics | Geophysics and Geodesy | Geosciences (including Geography) | Life Sciences | Natural Sciences | Oceanography

Content types: Archived data | Audiovisual data | Images | Plain text | Standard office documents

Countries: Germany

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.

Repository details

PANGAEA

General   Institutions   Terms   Standards

Name of repository	**PANGAEA**
Additional name(s)	Publishing Network for Geoscientific and Environmental Data
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

Repository details

PANGAEA

General   **Institutions**   **Terms**   **Standards**

Institution name	**Alfred Wegener Institute for Polar and Marine Research**
Additional name(s)	AWI Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung
URL	http://www.awi.de/en/home/
Contact(s)	hgrobe@pangaea.de
Country	Germany
Type(s) of responsibility	general technical
Type of institution	non-profit

Institution name	**Center for Marine Environmental Sciences (MARUM)**
URL	http://www.marum.de/
Contact(s)	mdiepenbroek@pangaea.de
Country	Germany
Type(s) of responsibility	general
Type of institution	non-profit

Repository details

PANGAEA

General   **Institutions**   **Terms**   **Standards**

Policies (1)

Policy Name	Data policy of the information system PANGAEA
URL	http://www.pangaea.de/curator/files/pangaea-data-policy.pdf

Database access

Type of access to research data repository	open

Data access (1)

Type of access to data	open

Data licenses (1)

DataLicense	CC
URL	http://wiki.pangaea.de/wiki/License

Data upload (1)

Type of data upload	restricted
Data upload restriction type(s)	registration

Data upload license (1)

Data upload license name	Data Submission
Data upload license URL	http://wiki.pangaea.de/wiki/Data_submission

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Repository details

PANGAEA

General   Institutions   Terms   **Standards**

Name of the repository software	other
Versioning	yes
Persistent identifier system(s)	DOI
Quality management	yes
Certificates and Standards	WDS

Application programming interfaces (1)

API type	OAI-PMH
URL	http://ws.pangaea.de/oai/

Alerting services (1)

Type of alerting service	RSS
Alerting service	http://www.pangaea.de/tools/latest-datasets.rss

Remarks

Remarks	Data of World Data Center for Marine Environmental Sciences (WDC-MARE) are available via the data library PANGAEA which will be operated as a member of the new WDS (World Data System)
Entry date	2012-07-16
Last update	2014-04-14

re3data.org – Quality

- 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.

re3data.org – Workflow
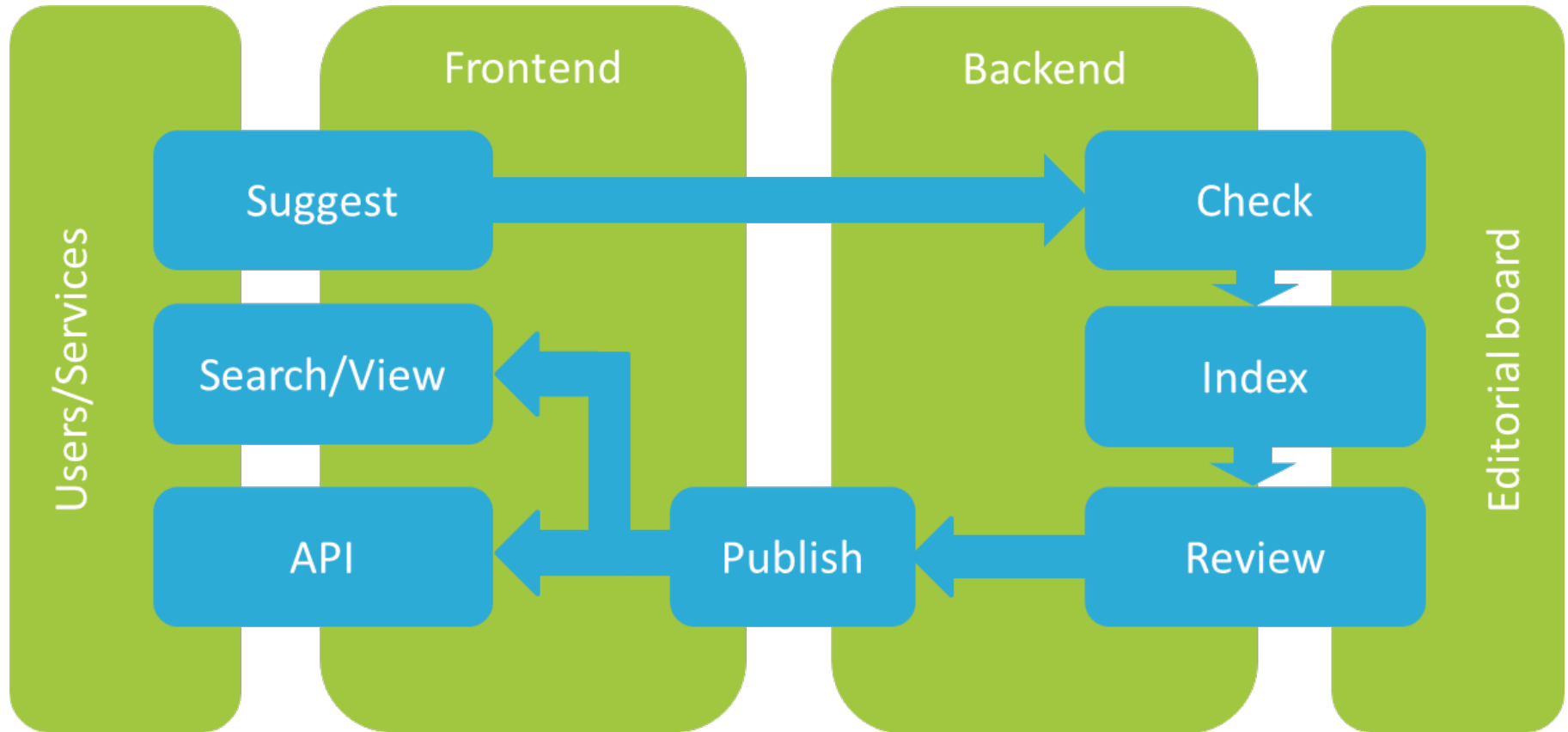
re3data.org – Indexed Repositories

Growth of re3data.org
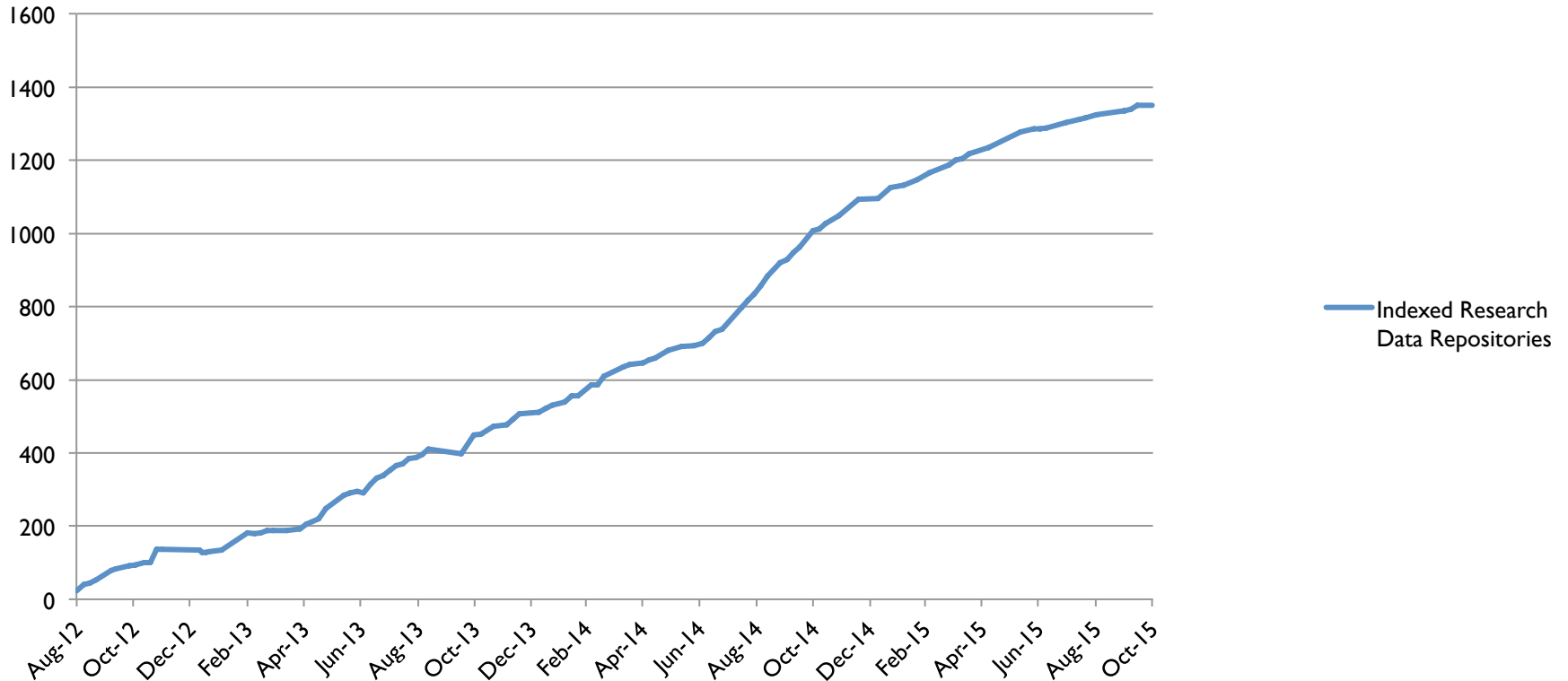
re3data.org – Cooperation

- Deutsche Initiative für Netzwerkinformation (DINI)

- DataCite (MoU, April 2012)

- OpenAIRE (MoU, October 2013)

- BioSharing (MoU, November 2013)

- Databib (MoU, March 2014)

- DataCite (Formal cooperation, March 2015)

re3data.org – Policies

- ## Funder Example: European Commission

> 1) **Step 1:** participating projects are required to deposit the research data described above, preferably into a research data repository. 'Research data repositories' are online archives for research data. They can be subject-based/thematic, institutional or centralised. Useful listings of research data repositories include the Registry of Research Data Repositories (www.re3data.org) and Databib (http://databib.org). In addition, it is expected that the Open Access Infrastructure for Research in Europe (OpenAIRE) will become an entry point for linking publications to underlying research data.

European Commission (2015): Guidelines on Open Accessto Scientific Publications and Research Data in Horizon 2020 http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

- ## Institutional Example: Bielefeld University
  - „Verzeichnisse, wie das DFG-geförderte "Registry of Research Data Repositories", bilden die Grundlage für die Suche nach geeigneten Publikationsorten für die Forschungsdaten."
   Universität Bielefeld (2011): Resolution zum Forschungsdatenmanagement. https://data.uni-bielefeld.de/de/resolution

- ## Publisher Example: Nature Publishing Group
 - „Physics, astrophysics, astronomy and geoscience databases should be registered with re3data.org."
    Scientific Data (2013): Data policies. http://www.nature.com/sdata/data-policies

Dimensions of sustainability
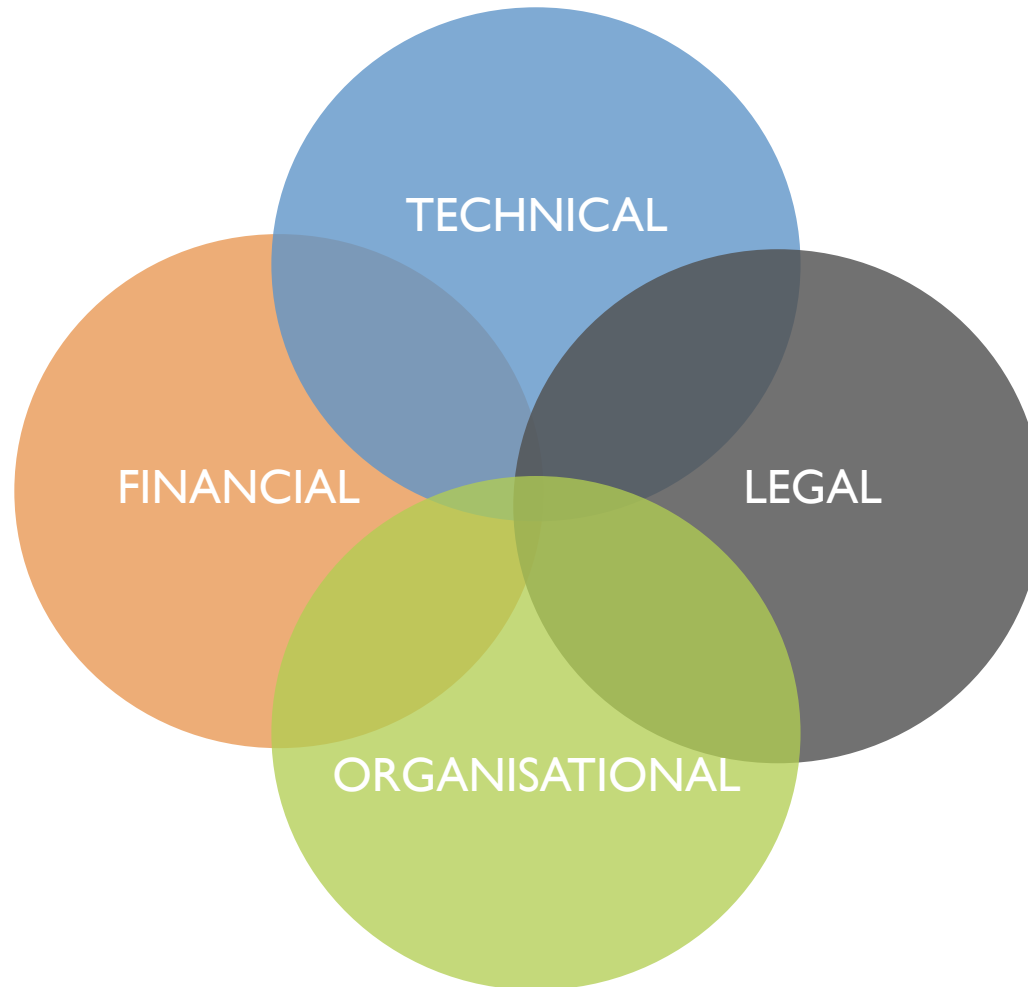
re3data.org – Organizational sustainability

- Merger with DataBib under the auspices of DataCite

- re3data.org working group within DataCite

- International Editorial Board

- Cooperations within RDA and the

  research data repository community

- Community building and feedback

  loops during RFC phases (e.g. re3data.org schema)
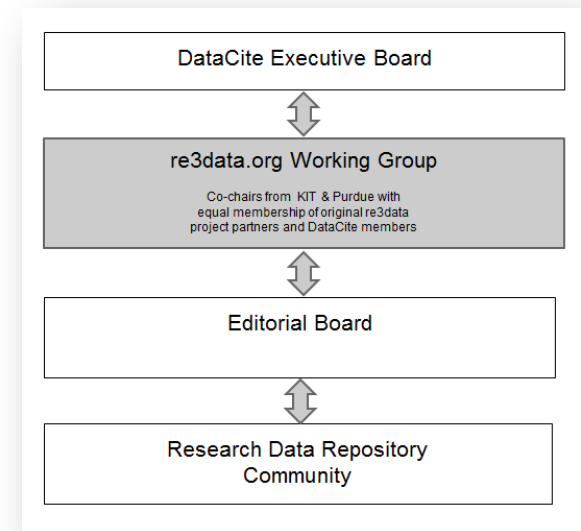
re3data.org – Technical sustainability

- Open interfaces

  - RESTful API

  - OpenSearch

  - Documentation: http://www.re3data.org/api/doc

  - Used e.g. by OpenAIRE

- Open metadata

  - Documentation: http://www.re3data.org/schema/

- Long-term hosting commitment by KIT

re3data.org – Legal sustainability

- Open licenses

  - CC BY for the website

  - CC 0 for metadata

LICENSES

(cc) BY

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(0) PUBLIC DOMAIN

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

re3data.org – Financial sustainability

- Technical maintenance financed by DataCite from 2016

- Further development managed by DataCite

- Further project funding

re3data.org – Next steps

- re3data.org persistent identifier

Repository details
PANGAEA

| 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)	

Cite this re3data.org record:

re3data.org: PANGAEA; editing status 2015-11-18; re3data.org - Registry of Research Data Repositories.
http://doi.org/10.17616/R3XS37 last accessed: 2015-11-25

Description	
Content type	
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

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re3data.org – Next steps
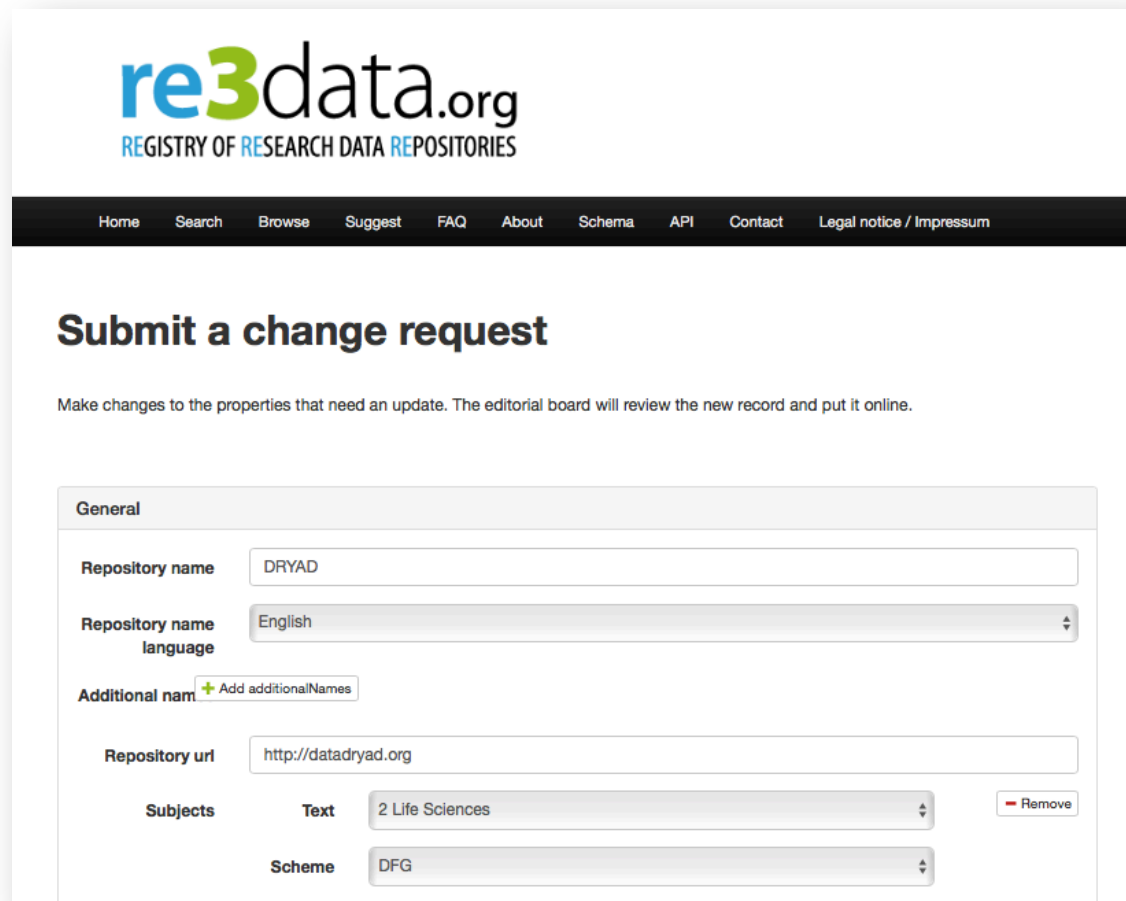
- Browsing
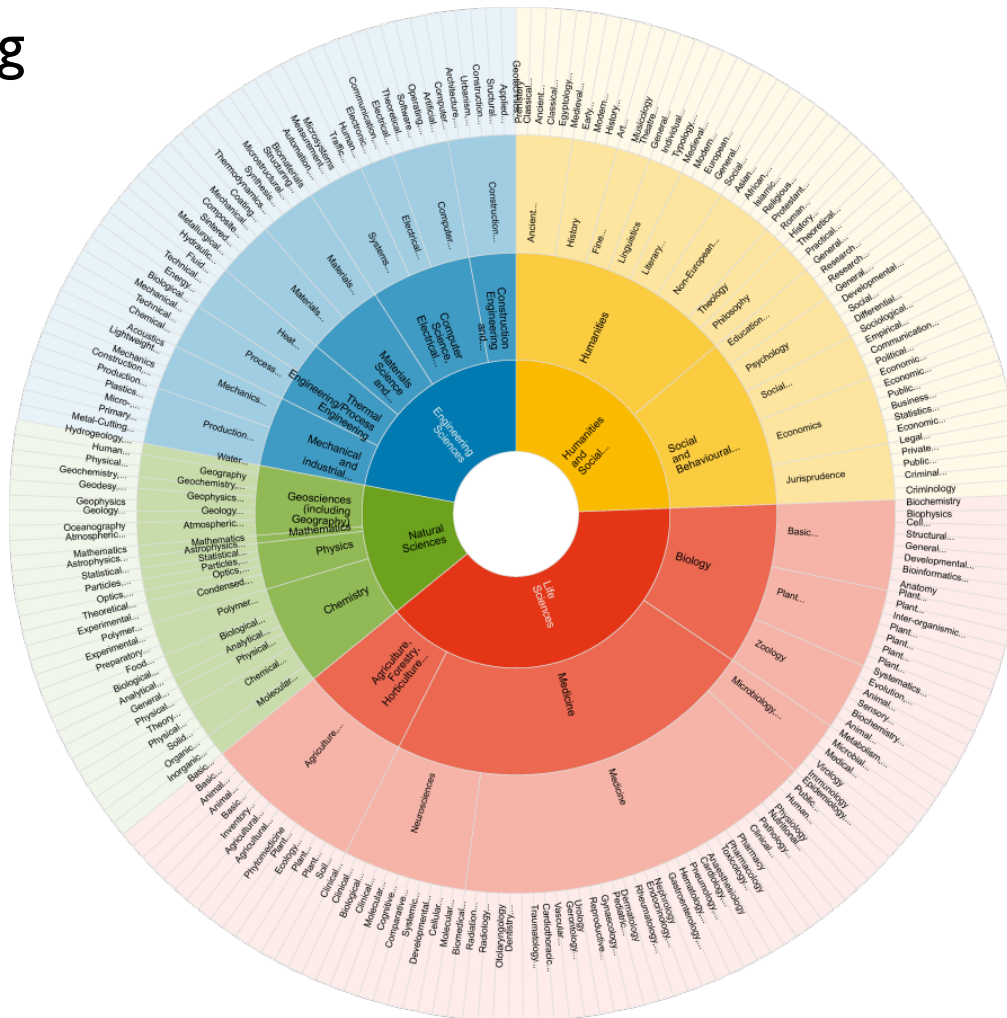
re3data.org – Next steps

- Change requests

Thanks to the team!

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  - Karlsruhe Institute of Technology (KIT), KIT Library

- Michael Witt

  - Purdue University, Distributed Data Curation Center (D2C2)

WHERE DO YOU STORE YOUR RESEARCH DATA?

☐ USB DRIVE
☐ DROPBOX
☐ RESEARCH DATA REPOSITORY

re3data.org
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re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

info@re3data.org

http://re3data.org

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