

# re3data.org – a Registry of Research Data Repositories

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Research Data Alliance (RDA) Germany Meeting | Potsdam, 21.11.2014

# Background

- Data policies: funding organizations
  - 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 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://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf)

# Background

- Data policies: journals
  - Nature Publishing Group
    - “[...] authors are required to make materials, data and associated protocols promptly available to readers without undue qualifications.”
  - 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

- Data policies: journals

- Na

## 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). Availabil  
PLOS (2014). PLOS Ec

# Mission

- re3data.org
  - is a global registry of research data repositories
  - covers research data repositories from all academic disciplines
  - helps researchers, funding bodies, publishers and scholarly institutions to find research data repositories
  - aims to promote a culture of sharing, increased access and better visibility of research data

## Search for Repositories (1028 Reviewed Repositories)

geosciences

Search

Subject

Content Type


Country (of the responsible institutions)


Add subjects


Add content types

Add countries

Germany

 Certificates

 Open Access

 Persistent Identifier

Clear

2 results (filtered) (1 - 2)

Sort by weight

### PANGAEA

Publishing Network for Geoscientific and Environmental Data



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.

simple search box

filters

results

icons


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[General](#)
[Institutions](#)
[Terms](#)
[Standards](#)

### General information

Name of repository	<b>PANGAEA</b>
Additional name	Publishing Network for Geoscientific and Environmental Data
Repository URL	<a href="http://www.pangaea.de">http://www.pangaea.de</a>
Subjects	<a href="#">Q Atmospheric Science and Oceanography</a> <a href="#">Q Biology</a> <a href="#">Q Geochemistry, Mineralogy and Crystallography</a> <a href="#">Q Geochemistry, Mineralogy and Crystallography</a> <a href="#">Q Geology and Palaeontology</a> <a href="#">Q Geology and Palaeontology</a> <a href="#">Q Geophysics</a> <a href="#">Q Geophysics and Geodesy</a> <a href="#">Q Geosciences (including Geography)</a> <a href="#">Q Life Sciences</a> <a href="#">Q Natural Sciences</a> <a href="#">Q Oceanography</a>
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 types	<a href="#">Q Archived data</a> <a href="#">Q Audiovisual data</a> <a href="#">Q Images</a> <a href="#">Q Plain text</a> <a href="#">Q Standard office documents</a>
Keywords	<a href="#">Q Earth Science</a> <a href="#">Q Environmental Science</a>
Repository type	disciplinary
Research data repository language(s)	eng
Data and/or service provider	dataProvider

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[Text Edit](#)
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[← Back to results](#)[General](#)[Institutions](#)[Terms](#)[Standards](#)**Responsible institutions** (2)

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

Institution name	<b>Center for Marine Environmental Sciences (MARUM)</b>
URL	<a href="http://www.marum.de/">http://www.marum.de/</a>
Contact	<a href="mailto:mdiepenbroek@pangaea.de">mdiepenbroek@pangaea.de</a>
Country	<a href="#">Germany</a>
Type(s) of responsibility	general
Type of institution	non-profit

[← Back to results](#)[Text Edit](#)[GUI Edit](#)



[← Back to results](#)[General](#)[Institutions](#)[Terms](#)[Standards](#)**Terms** (1)

Policy name	<b>Data policy of the information system PANGAEA</b>
URL	<a href="http://www.pangaea.de/curator/files/pangaea-data-policy.pdf">http://www.pangaea.de/curator/files/pangaea-data-policy.pdf</a>

**Legal aspects**

## Database access

Type of access to research data repository	open
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## Data access

Type of access to data	open
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## Data licences (1)

License name	<b>CC</b>
License URL	<a href="http://wiki.pangaea.de/wiki/License">http://wiki.pangaea.de/wiki/License</a>

## Data upload

Type of data upload	restricted
Data upload restriction type	registration
Data upload license name	Data Submission
Data license URL	<a href="http://wiki.pangaea.de/wiki/Data_submission">http://wiki.pangaea.de/wiki/Data_submission</a>

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### Standards

Name of the repository software	other
Versioning	yes
Persistent Identifier system	DOI
Data citation guideline	<a href="http://wiki.pangaea.de/wiki/Citation">http://wiki.pangaea.de/wiki/Citation</a>
Quality management	yes
Certificates and Standards	WDS

### Application programming interfaces (1)

API type	OAI-PMH
URL	<a href="http://ws.pangaea.de/oai/">http://ws.pangaea.de/oai/</a>

### Alerting services (1)

Type of alerting service	RSS
Alerting service	<a href="http://www.pangaea.de/tools/latest-datasets.rss">http://www.pangaea.de/tools/latest-datasets.rss</a>

### 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

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# Workflow



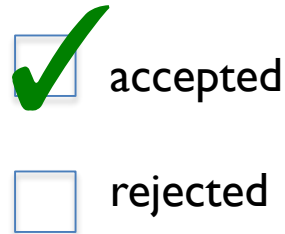
**Suggest a Data Repository**  
 \*Erforderlich

**Repository Name \***  
 The full name of the research data repository.

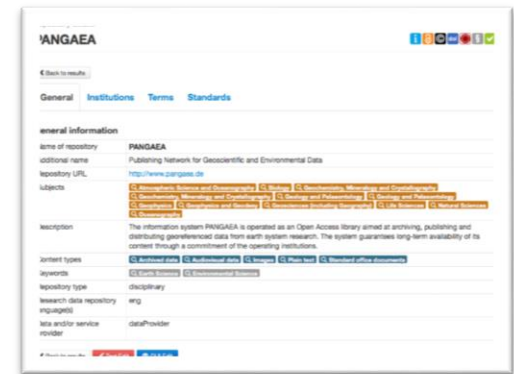
**Repository URL \***  
 The URL, which gives reference to the research data repository.

**Description \***  
 A textual description containing additional information about the data repository (primary language is English).

**Language**  
 The user interface language of the research data repository.



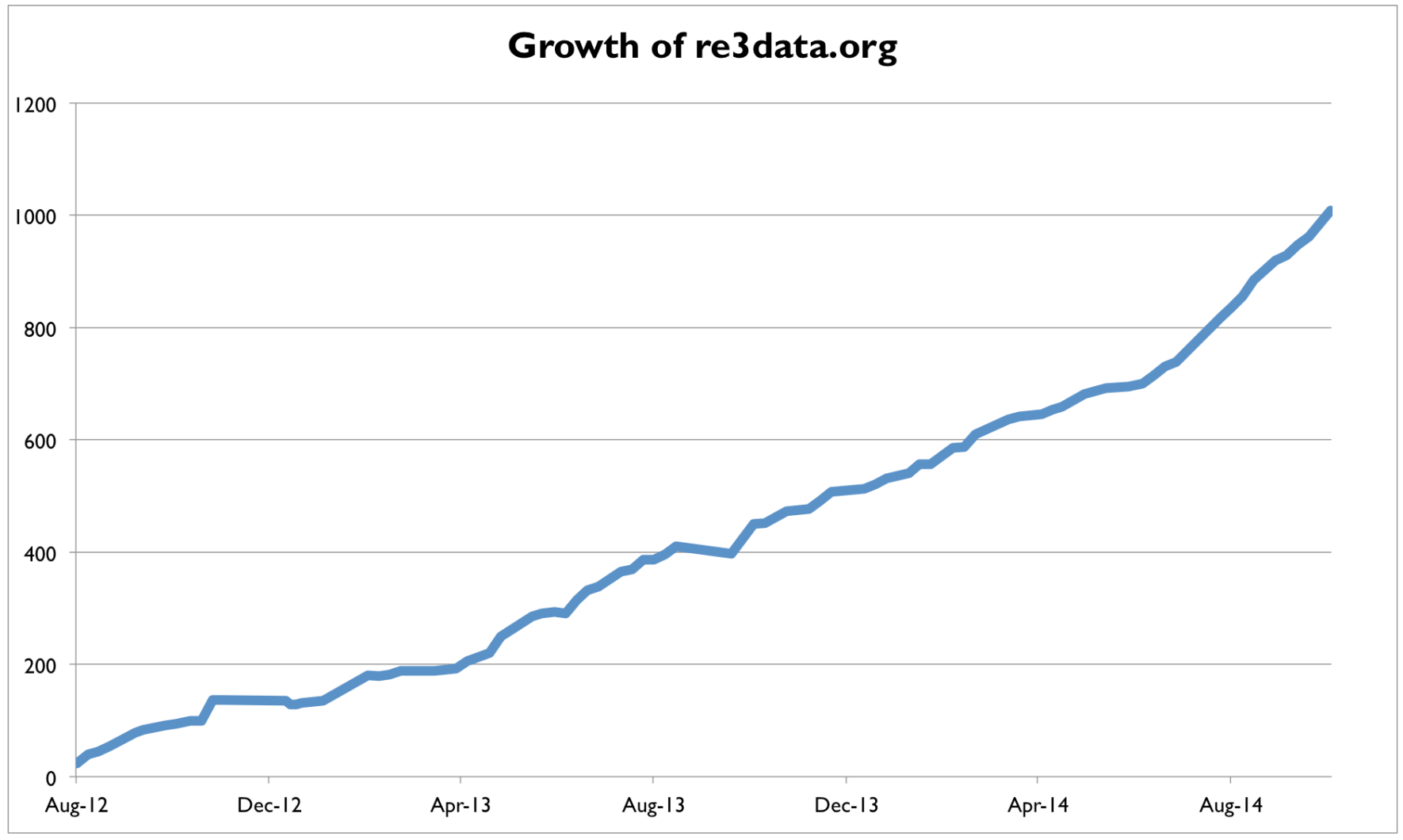
<http://www.re3data.org/schema/>



<http://www.re3data.org/suggest/>

<http://service.re3data.org/repository/r3d100010134>

# Growth



# Partners

- Germany
  - Berlin School of Library and Information Science
  - GFZ German Research Centre for Geosciences, Library and Information Services (LIS)
  - Karlsruhe Institute of Technology (KIT), KIT Library
  - Funded by the German Research Foundation DFG
- USA
  - Purdue University, Purdue Libraries
  - Funded by the Institute of Museum and Library Services (IMLS)

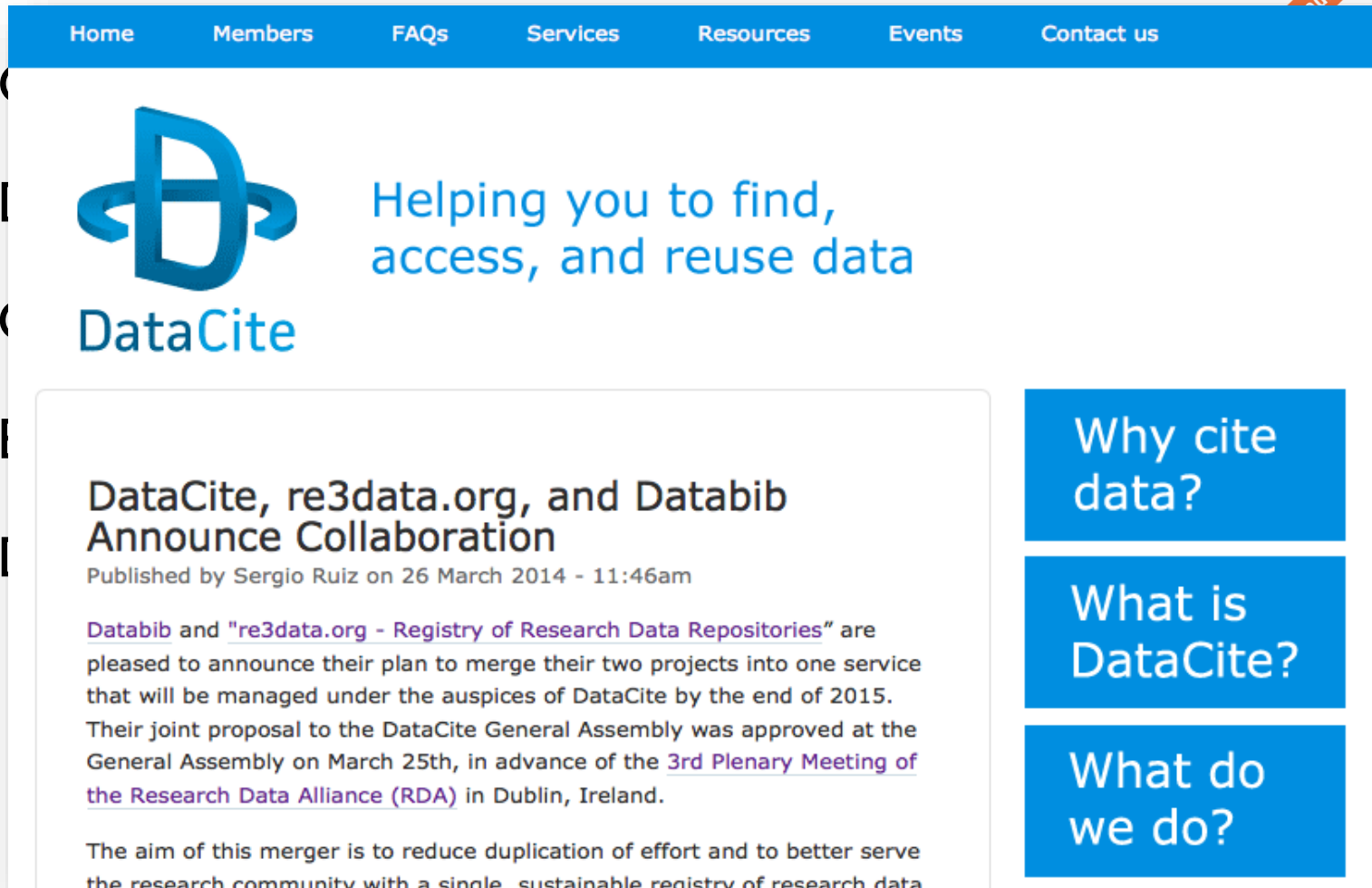


# Cooperation


- German Initiative for Network Information (DINI)
- DataCite (MoU, April 2012)
- OpenAIRE (MoU, October 2013)
- BioSharing (MoU, November 2013)
- Databib (MoU, March 2014)



# Cooperation



Home Members FAQs Services Resources Events Contact us

 Helping you to find, access, and reuse data

DataCite

**DataCite, re3data.org, and Databib Announce Collaboration**  
Published by Sergio Ruiz on 26 March 2014 - 11:46am

Databib and "re3data.org - Registry of Research Data Repositories" are pleased to announce their plan to merge their two projects into one service that will be managed under the auspices of DataCite by the end of 2015. Their joint proposal to the DataCite General Assembly was approved at the General Assembly on March 25th, in advance of the 3rd Plenary Meeting of the Research Data Alliance (RDA) in Dublin, Ireland.

The aim of this merger is to reduce duplication of effort and to better serve the research community with a single, sustainable registry of research data

- Why cite data?
- What is DataCite?
- What do we do?

<http://www.datacite.org/node/115>

# re3data.org & RDA



- Platform for networking and communication
  - Schema: requests for comments
- Repository Audit and Certification DSA–WDS Partnership WG
  - Heterogeneous landscape of research data repositories
  - 20 % of the indexed repositories are certified
- Vision: “Data Fabric IG”





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## forschungsdaten.org

[\[Bearbeiten\]](#)

Dieses Wiki sammelt Informationen rund um dem Umgang mit digitalen Forschungsdaten. Mitarbeit (z.B. in Form von neuen Artikeln, Ergänzungen und Änderungen) ist sehr willkommen!

Das Redaktionsteam besteht aus [Jochen Klar](#) (AIP), [Maxi Kindling](#) (HU Berlin), [Heinz Pampel](#) (GFZ Potsdam) und [Jens Klump](#) (CSIRO). Es wird vom

- [DFG-Projekt re3data.org](#),
- [der DINI/nestor-AG "Digitale Forschungsdaten"](#)
- [und der DINI-AG "Elektronisches Publizieren"](#)

unterstützt. Gehostet wird das Wiki vom [Helmholtz-Zentrum Potsdam, Deutsches GeoForschungsZentrum GFZ](#).

# Thanks for your attention!

info@re3data.org

http://re3data.org



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# Backup Slides

# Schema

- Schema for the Description of Research Data Repositories



- The schema covers the following aspects:
  - general information (e.g. short description of the RDR, content types, keywords)
  - responsibilities (e.g. institutions responsible for funding, content or technical issues)
  - policies (e.g. policies of the RDR, incl. there URL)
  - legal aspects (e.g. licenses of the database and datasets)
  - technical standards (e.g. APIs, versioning of datasets, software of the RDR)
  - quality standards (e.g. certificates, audit processes)

# Icons

- Information icons help researchers to easily identify an adequate repository for the storage and reuse of their data.



# Quality

Possible values for each icon

Information	Access	Licenses	Persistent Identifier	Certificates and Standards	Policy	Reviewed

- Requirements

- 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

# Cooperation

- Databib and re3data.org have agreed to the following five principles for successful cooperation:
  1. Openness
  2. Optimal quality assurance
  3. Development of innovative functionalities
  4. Shared leadership
  5. Sustainability

<http://www.datacite.org/node/115>

# Project Team (Status: Oct. 2014 )

- Bertelmann, R. <sup>a</sup>; Fuchs, C. <sup>a</sup>; Goebelbecker, H.-J. <sup>c</sup>;  
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a GFZ German Research Centre for Geosciences, Library and Information Services (LIS)

b Humboldt-Universität zu Berlin, Berlin School of Library and Information Science (BLIS)

c Karlsruhe Institute of Technology (KIT), KIT Library

d Purdue University, Distributed Data Curation Center (D2C2)



# WHERE DO YOU STORE YOUR RESEARCH DATA?

- USB DRIVE
- DROPBOX
- RESEARCH DATA REPOSITORY

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

## Thanks for your attention!

info@re3data.org

http://re3data.org



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