

# Vom Projekt zum Service – zur Rolle von re3data.org in der Forschungsdateninfrastruktur

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104. Deutscher Bibliothekartag | Nürnberg, 29.05.2015

# Agenda

- Hintergrund
- Funktionen
- Nachhaltigkeit
- Lessons Learned

# Hintergrund

- Förderorganisationen: Data Policies
  - Beispiel: Europäische Kommission

## 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 Comission. (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)

# Hintergrund

- Journals: Data Policies
  - Beispiel: Nature Publishing Group
    - “[...] authors are required to make materials, data and associated protocols promptly available to readers without undue qualifications.“
  - Beispiel: 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>

# Hintergrund

- Journals: Data Policies

- Bei

## 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

Yes – all data are fully available without restriction

No – some restrictions will apply

Please select a response.

# Hintergrund

- Wissenschaftspolitische Diskussion
  - Beispiel: Koalitionsvertrag

Wir werden eine Strategie für den digitalen Wandel in der Wissenschaft initiieren, z.B. um Zugang und Nutzbarkeit von komplexen Forschungsdaten zu verbessern. Gemeinsam mit den Ländern werden wir einen Rat für Informationsinfrastrukturen gründen, in dem sich die Akteure des Wissenschaftssystems über die Erarbeitung disziplinen- und institutionenübergreifender Strategien und Standards verständigen. Zudem wollen wir virtuelle Forschungsumgebungen stärken, die es Forscherinnen

Deutschlands Zukunft gestalten. Koalitionsvertrag zwischen CDU, CSU und SPD. I8. Legislaturperiode. Retrieved from <https://www.cdu.de/sites/default/files/media/dokumente/koalitionsvertrag.pdf>

# Hintergrund

- Heterogene Landschaft der Forschungsdaten-Repositorien
  - Beispiele: Disziplinäre Repositorien

The screenshot shows the GEO navigation interface. At the top, there are links for 'GEO Publications', 'FAQ', 'MIAME', and 'Email GEO'. Below this, a main content area displays a brief description of the Gene Expression Omnibus: "a public functional genomics data repository supporting MIAME submissions. Array- and sequence-based data are accepted. Tools are provided to help users query experiments and curated gene expression profiles. [More information >](#)". On the left, a 'GEO navigation' sidebar includes sections for 'QUERY' (DataSets, Gene profiles, GEO accession, GEO BLAST) and 'BROWSE' (DataSets, GEO accessions, Platforms, Samples, Series). A vertical 'Site content' sidebar lists various categories like Public, Platform, Sample, Series, DataSets, etc.

GEO, <http://www.ncbi.nlm.nih.gov/geo/>

The screenshot shows the PANGAEA homepage. At the top, it features the PANGAEA logo and the tagline "Data Publisher for Earth & Environmental Science". Below this is a search bar with dropdown menus for "All", "Water", "Sediment", "Ice", and "Atmosphere". Further down, there are links for "Help", "Advanced Search", "Preferences", and "more...". The footer contains links for "About", "Submit Data", "Projects", "Software", "WDC-MARE", and "Contact". A note at the bottom states "This work is licensed under a Creative Commons License".

PANGAEA, <http://www.pangaea.de>

# Hintergrund

- Heterogene Landschaft der Forschungsdaten-Repositorien
  - Beispiele: Institutionelle Repositorien

The image shows two screenshots of academic research repositories side-by-side. On the left is the Purdue University Research Repository (PURR). The top navigation bar includes 'Login', 'Register', and 'Report a bug'. Below it are links for 'Home', 'Browse Content', 'Projects', 'Get Started', and 'Contact Us'. A search bar with the placeholder 'Search' is present. The main content area displays a publication titled 'Phosphorus and Potassium Influence on Alfalfa Nutrition' by Jeffrey J Volenec. It includes a 'Download (XLS)' button, a link to 'Additional materials available (1)', and a DOI link 'doi:10.5072/FK2NG4S08 - cite this'. Below the abstract is a section for 'SEE ALSO' which says 'No results found.' At the bottom of the page are buttons for 'About', 'Supporting Docs', 'Versions', 'Reviews', 'Questions', and 'Wish List'. An abstract is provided: "This is a master file of merged excel files with data from several studies on the influence of phosphorus and potassium nutrition on alfalfa. It includes numeric data such as yield, plant mass, plant counts, and tissue concentration of various nutrients. Conventional wisdom states that plants that are poorly fertilized and do not have adequate phosphorus and especially low potassium will become winterkill. This study showed that plants did not necessarily die in winter with low potassium stress." On the right is the Open Data LMU website. The top navigation bar includes 'Login | Registrieren', 'INFORMATIONEN FÜR', 'LINKS', and 'E-MEDIEN'. The main content area features the LMU logo and the text 'Open Data LMU'. It lists '42 Datensätze aus Forschungsprojekten, die an der LMU angesiedelt sind.' Below this is a list of five research projects with their titles, authors, and DOIs:

- Jackson, Daniel und Mann, Karlheinz und Häussermann, Vreni und Schilhaber, Markus und Lüter, Carsten und Griesshaber, Erika und Schmahl, Wolfgang und Wörheide, Gert: *The Magellania venosa biomimetic proteome: a window into brachiopod shell evolution.* 24. April 2015. Open Data LMU. doi:10.5282/ubm /data.67
- Schuster, Astrid und Erpenbeck, Dirk und Pisera, Andrzej und Hooper, John und Bryce, Monika und Fromont, Jane und Wörheide, Gert: *Deceptive desmas: molecular phylogenetics suggests a new classification and uncovers convergent evolution of lithistid demosponges.* 4. November 2014. Open Data LMU. doi:10.5282/ubm/data.66
- Arends, Fabienne und Nowald, Constantin und Pflieger, Kerstin und Boettcher, Kathrin und Lileg, Oliver und Zahler, Stefan: *The biophysical properties of basal lamina gels depend on the biochemical composition of the gel.* 1. November 2014. Open Data LMU. doi:10.5282/ubm/data.64

PURR, <http://research.hub.purdue.edu>

Open Data LMU, <http://data.ub.uni-muenchen.de/>

# Hintergrund

- Heterogene Landschaft der Forschungsdaten-Repositorien
  - Beispiele: Projektbezogene Forschungsdaten-Repositorien

**Scientific Drilling Database**  
Data from Deep Earth Sampling and Monitoring

+ Home  
+ About SDDB  
+ News  
+ Data Publications  
+ Catalogue  
+ Authors  
+ Dataset  
+ Research Programs  
+ Sampling Gear  
+ Analytical Parameters  
+ Publication Process  
+ Admin

**Dataset Description**

Citation: Demory, Francois; Nowaczyk, Norbert; Witt, Annette; Oberhänsli, Heidi  
Intercorrelation of down-core variations of the high-resolution magnetic susceptibility for CON01-603 and CON01-605. *Scientific Drilling Database*. <http://dx.doi.org/10.1594/GFZ.SDDB.1003>  
[Download Citation \(EndNote\)](#)

Title: Intercorrelation of down-core variations of the high-resolution magnetic susceptibility for CON01-603 and CON01-605

Abstract: Down-core variations of the high-resolution magnetic susceptibility (0.1 cm) have been obtained for kasten and pilot cores from sites CON01-603 and CON01-605. AMS 14C dating performed on kasten cores to the resolution of 0.1 cm allowed the transfer of AMS 14C dating performed on kasten cores to the resolution of 0.1 cm to the pilot cores subjected to paleomagnetic investigation. The comparison of the magnetic susceptibility curves from the pilot core for CON01-605 (Vydrono Shoulder) measured in 2001 and 2003, respectively (fig. 1), shows large peaks visible in the first measurement from 2001 (dashed lines) disappeared after a 2-year-long storage. This is a first hint for the presence of the ferronickelite mineral greigite, which is chemically unstable.

[Show in Google Earth](#)

Related Publications:

- N. Fagel, L.Y. Alleman, L. Granina, F. Hatert, E. Bozzo, R. Cloos, A. Andre, Vivianite formation and distribution in Lake Baikal sedimentary rocks. *Geochimica et Cosmochimica Acta* 79 (2005), pp. 315-336. doi:10.1016/j.gca.2004.11.012

**SDDB**, <http://www.scientificdrilling.org>

**The Bern Digital Pantheon Project**

Home | The Building | Research | Publications | The Team | Repository | Contact | Search

You are here: Home > Repository > BDPP0019

Repository

first previous Record 198 of 776 next last

The Bern Digital Pantheon Project: Transverse cross-section, facing north

The Bern Digital Pantheon Project: Transverse cross-section, facing north. In: Gerd Graßhoff, Markus Wäfler, Jon Albers and Christian Berndt (ed.), Digital Repository of the Bern Digital Pantheon Project. Bern 2009, BDPP0019 (Published online at: <http://www.digitalpantheon.ch/BDPP0019>).

BibTeX:

```
@other{BDPP0019,
  author = {(The Bern Digital Pantheon Project)},
  title = {(Transverse cross-section, facing north)},
  year = {2009},
  keywords = {Medium Visualisation Building Interior},
  owner = {berndt},
  timestamp = {2009.05.28},
  publisher = {Graßhoff, Gerd and Wäfler, Markus and Albers, Jon and Berndt, Christian},
  address = {Bern},
  repository = {Digital Repository of the Bern Digital Pantheon Project}
}
```

Usage of the repository

**BDPP**, <http://www.digitalpantheon.ch>

# Hintergrund

- Heterogene Landschaft der Forschungsdaten-Repositorien
  - Beispiele: Generische Forschungsdaten-Repositorien

The screenshot shows the Zenodo homepage with a search bar and navigation links for 'Search', 'Communities', 'Browse', 'Upload', and 'Get started'. Below the header, a featured dataset is displayed:

**Amber fossils demonstrate deep-time stability of Caribbean lizard communities**

Published on 08 May 2015 by Sherratt, Emma ; Castañeda, María del Rosario ; Garwood, Russell ; Mahler, D. Luke ; Sanger, Thomas J. ; Herrel, Anthony ; de Queiroz, Kevin ; Losos, Jonathan B.

This is the dataset for the paper Sherratt et al. 2015 (PNAS, doi:). Included are the X-ray microtomography (micro-CT) TIFF stacks for the amber encased anole lizard fossils studied. Also included are the morphometric data for the fossil and 100 modern specimens, and the phylogenetic character matrix for the fossils and 181 species (91 morphological characters, 4873 DNA bases).

**Abstract:** Whether the structure of ecological communities can exhibit stability over macroevolutionary timescales has long been debated. The similarity of independently evolved *Anolis* lizard communities on ecologically similar Greater Antillean islands supports the notion that community evolution is deterministic. However, a dearth of Caribbean *Anolis* fossils - only 3 have been described to date - has precluded direct investigation of the stability of anole communities through time. Here we report on an additional 17 fossil anoles in Dominican amber dating to 15–20 My before the present. Using data collected primarily by X-ray microtomography, we demonstrate that the main elements of Hispaniolan anole community diversity were in place in the Miocene. Phylogenetic analysis is consistent with the hypothesis that the

Zenodo, <http://zenodo.org>

The screenshot shows the Figshare homepage with a search bar and navigation links for 'My data', 'Browse', 'Upload', and a user profile for 'H. Pampel'. Below the header, a featured dataset is displayed:

**Main Dataset for "Evolution of Popular Music: USA 1960–2010"**

Published on 06 Apr 2015 - 20:15 (GMT)  
Filesize is 18.81 MB

**510 views**   **0 shares**   **coming soon**

**Categories**

- Anthropology
- Applied Computer Science
- Media Studies
- Performing Arts
- Evolutionary Biology

**Authors**  
Matthias Mauch

**Tags**

- music
- Billboard Hot 100
- charts
- cultural evolution
- evolution

**License** ([what's this?](#))

**Table Data:**

	A	B	
1	recording_id	artist_name	artist_name
2	1	Suzanne Vega	SUZANNEV
3	2	Janet Jackson ft Carly Simon	JANETJAC
4	3	Neneh Cherry	NENECHI
5	4	Neneh Cherry	NENECHI
6	5	Junior M.A.F.I.A. Featuring The Notorious B.I.G.	JUNIORMA
7	6	Junior M.A.F.I.A.	JUNIORMA
8	7	Missy "Misdemeanor" Elliott Featuring Da Brat	MISSYMI
9	8	Nas	NAS

**Share this:** [Facebook Share](#) 0 [Twitter Tweet](#) 0 [G+1](#) 0 [Embed](#)

**Cite this:** Mauch, Matthias (2015): Main Dataset for "Evolution of Popular Music: USA 1960–2010". figshare.  
<http://dx.doi.org/10.5094/m9.figshare.1309953>  
Retrieved 07-54, May 27, 2015 (GMT)

\*The embed functionality can only be used for non commercial purposes... [more](#)

Figshare, <http://figshare.com>

# Hintergrund

## • Blick in die Biomedizin

*Nucleic Acids Research*, 2015, Vol. 43, Database issue D1-D5  
doi: 10.1093/nar/gku1241

### The 2015 Nucleic Acids Research Database Issue and Molecular Biology Database Collection

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<sup>1</sup>National Center for Biotechnology Information (NCBI), National Library of Medicine, National Institutes of Health, Bethesda, MD 20894, USA, <sup>2</sup>Institute of Integrative Biology, University of Liverpool, Crown Street, Liverpool L69 7ZB, UK and <sup>3</sup>Thermo Fisher Scientific, Inchinnan Business Park, Paisley, Renfrew PA4 9RF, UK

Received November 10, 2014; Accepted November 11, 2014

#### ABSTRACT

The 2015 *Nucleic Acids Research* Database Issue contains 172 papers that include descriptions of 56 new molecular biology databases, and updates on 115 databases whose descriptions have been previously published in *NAR* or other journals. Following the classification that has been introduced last year in order to simplify navigation of the entire issue, these articles are divided into eight subject categories. This year's highlights include RNAcentral, an international community portal to various databases on non-coding RNA; ValidatorDB, a validation database for protein structures and their ligands; SASDB, a primary repository for small-angle scattering data of various macromolecular complexes; MoonProt, a database of 'moonlighting' proteins; and two new databases of protein–protein and other macromolecular complexes, ComPPI and the Complex Portal. This issue also includes an unusually high number of cancer-related databases and other databases dedicated to genomic basics of disease and potential drugs and drug targets. The size of *NAR* Online Molecular Biology Database Collection, <http://www.oxfordjournals.org/nar/database/>, remained approximately the same, following the addition of 74 new resources and removal of 77 obsolete web sites. The entire Database Issue is freely available online on the *Nucleic Acids Research* web site (<http://nar.oxfordjournals.org/>).

#### NEW AND UPDATED DATABASES

The current *Nucleic Acids Research* (NAR) Database Issue is the 22nd annual collection of brief descriptions of bioinformatics databases, some of which are already well known, while others are described here for the first time. It includes 172 papers, of which 56 describe new databases (Table 1). 98 provide updates on the progress of the databases like *Plasmodium falciparum*.

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Downloaded from [nar.oxfordjournals.org](http://nar.oxfordjournals.org) at 09:27 on May 27, 2015

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## Nucleic Acids Research

ABOUT THIS JOURNAL CONTACT THIS JOURNAL SUBSCRIPTIONS CURRENT ISSUE ARCHIVE SEARCH

Oxford Journals > Life Sciences > Nucleic Acids Research > Database Summary Paper Alpha List

### 2015 NAR Database Summary Paper Alphabetic List

1 2 3 4 5 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

**1000 Genomes Selection Browser** Engelman, Johannes; Pybus, Marc; Dall'Olio, Giovanni; Luisi, Pierre; Uzkdun, Manu; Carreño-Torres, Angel; Pavlidis, Pavlos; Laayouni, Hafid; Bertranpetti, Jaume  
Signature of selection in the human genomes  
[database](#) [summary](#)

**16S and 23S Ribosomal RNA Mutation Database** Triman K.L.  
16S and 23S ribosomal RNA mutations  
[database](#) [summary](#)

**2D-PAGE** Pleissner, K.-P.; Elfert, T.; Buettner, S.; Knipper, J.; Schmelzer, P.; Stein, R.; Schmidt, F.; Mattow, J.; Zimny-Arndt, U.; Schmid, M.; Jungblut, P.R.  
Proteome database system for microbial research  
[database](#) [summary](#)

**2P2Idb** Basse, M.J.; Betzi, S.; Bourgeas, R.; Bouzidi, S.; Chetrit, B.; Hamon, V.; Morelli, X., and Roche, P.  
2P2Idb - database dedicated to the modulation of protein-protein interactions  
[database](#) [summary](#)

**3D rRNA modification maps**  
Locations of modified rRNA nucleotides within the 3D structure of the ribosome  
[database](#) [summary](#)

**3D-Footprint** Bruno Contreras-Moreira  
Estimates of DNA-binding specificity for protein-DNA complexes in PDB  
[database](#) [summary](#)

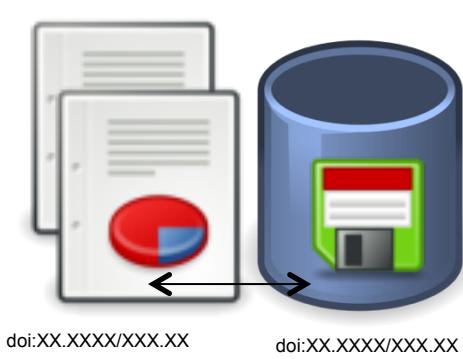
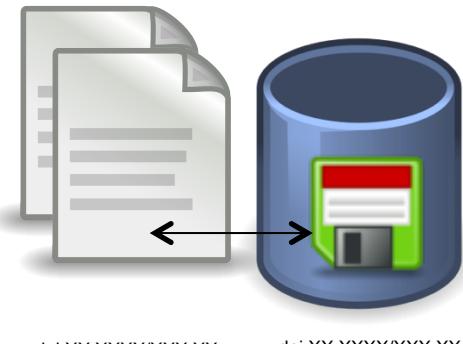
**3D-Genomics**  
Structural annotations for complete proteomes  
[database](#) [summary](#)

[http://www.oxfordjournals.org/our\\_journals/nar/database/a/](http://www.oxfordjournals.org/our_journals/nar/database/a/)

Galperin, M.Y. et al. (2015): The 2015 Nucleic Acids Research Database Issue and Molecular Biology Database Collection. *Nucl. Acids Res.* 43 (D1): D1-D5. doi: 10.1093/nar/gku1241

# Veröffentlichungsstrategien

- Veröffentlichung der Forschungsdaten als eigenständiges Informationsobjekt in einem Daten-Repository
  - doi:XX.XXXX/XXX.XX
- Veröffentlichung der Forschungsdaten als textuelle Dokumentation im Rahmen eines begutachteten „Data Papers“
  - doi:XX.XXXX/XXX.XX
- Veröffentlichung der Forschungsdaten als Ergänzung zu einem begutachteten Artikel („enhanced publication“)
  - doi:XX.XXXX/XXX.XX



[RRZE Icon Set \(CC: BY-SA\)](#)

# Mission

- [re3data.org](http://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

simple  
search box

filters

results

## Search for Repositories (1260 Reviewed Repositories)



### Subject

### Content Type

### Country (of the responsible institutions)

 Germany Certificates Open Access Persistent Identifier

3 results (filtered) ( 1 – 3 )

icons

Sort by weight

### PANGAEA

Publishing Network for Geoscientific and Environmental Data



Subjects: [Atmospheric Science and Oceanography](#) [Biology](#) [Geochemistry, Mineralogy and Crystallography](#) [Geochimistry, 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)

[Life Sciences](#) [Geochemistry, Mineralogy and Crystallography](#) [Geophysics and Geodesy](#) [Geology and Palaeontology](#)  
[Natural Sciences](#) [Geosciences \(including Geography\)](#) [Atmospheric Science and Oceanography](#) [Biology](#)  
[Geochemistry, Mineralogy and Crystallography](#) [Geophysics](#) [Geology and Palaeontology](#) [Oceanography](#)

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)

[Audiovisual data](#) [Archived data](#) [Plain text](#) [Images](#) [Standard office documents](#)

Keyword(s)

[Environmental Science](#) [Earth Science](#)

Repository type(s)

disciplinary

Research data repository

eng

language(s)

Data and/or service provider

dataProvider

[Back to search](#)



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Repository details



## PANGAEA

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

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

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

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## 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 open  
data repository

#### 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](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

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# Schema

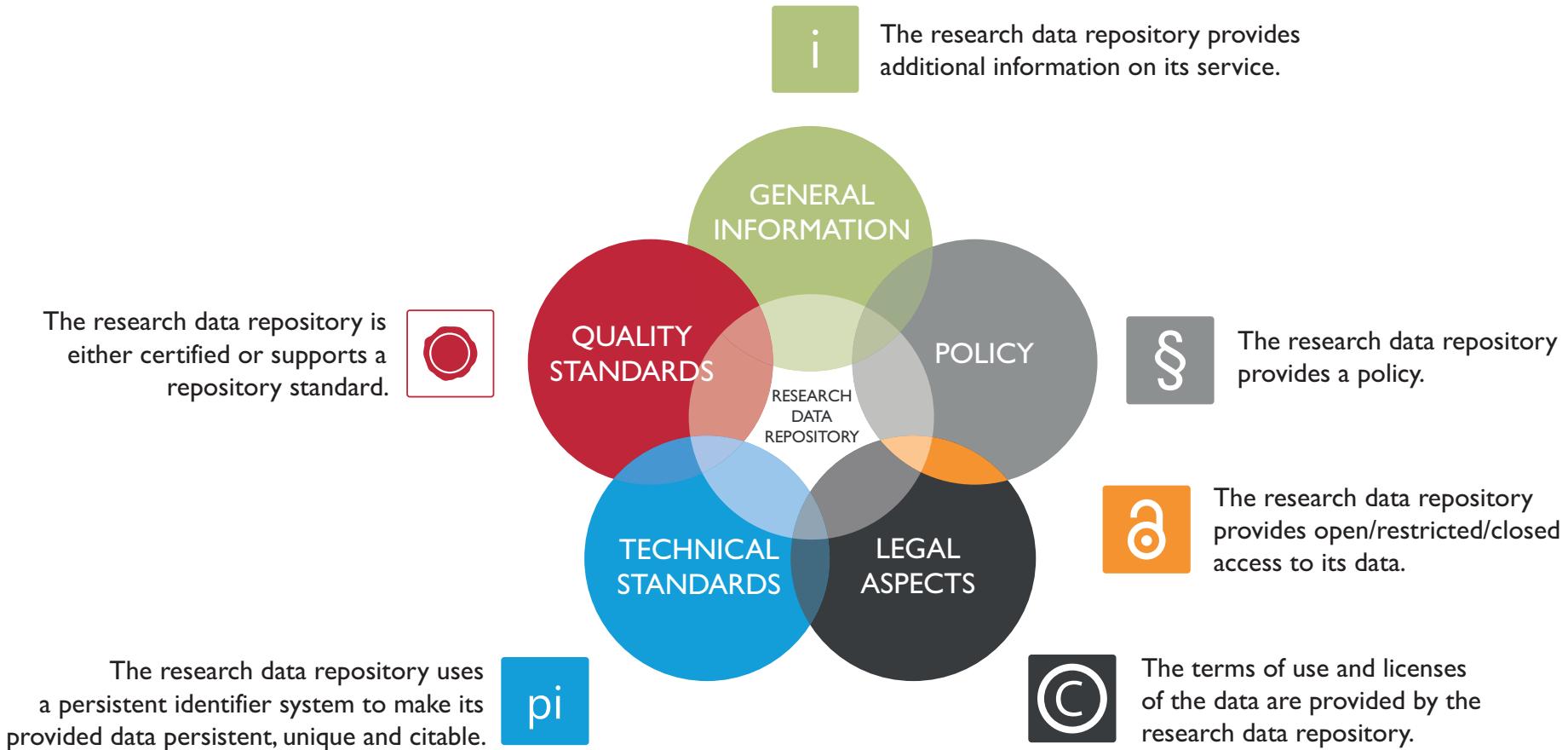
- Schema for the Description of Research Data Repositories



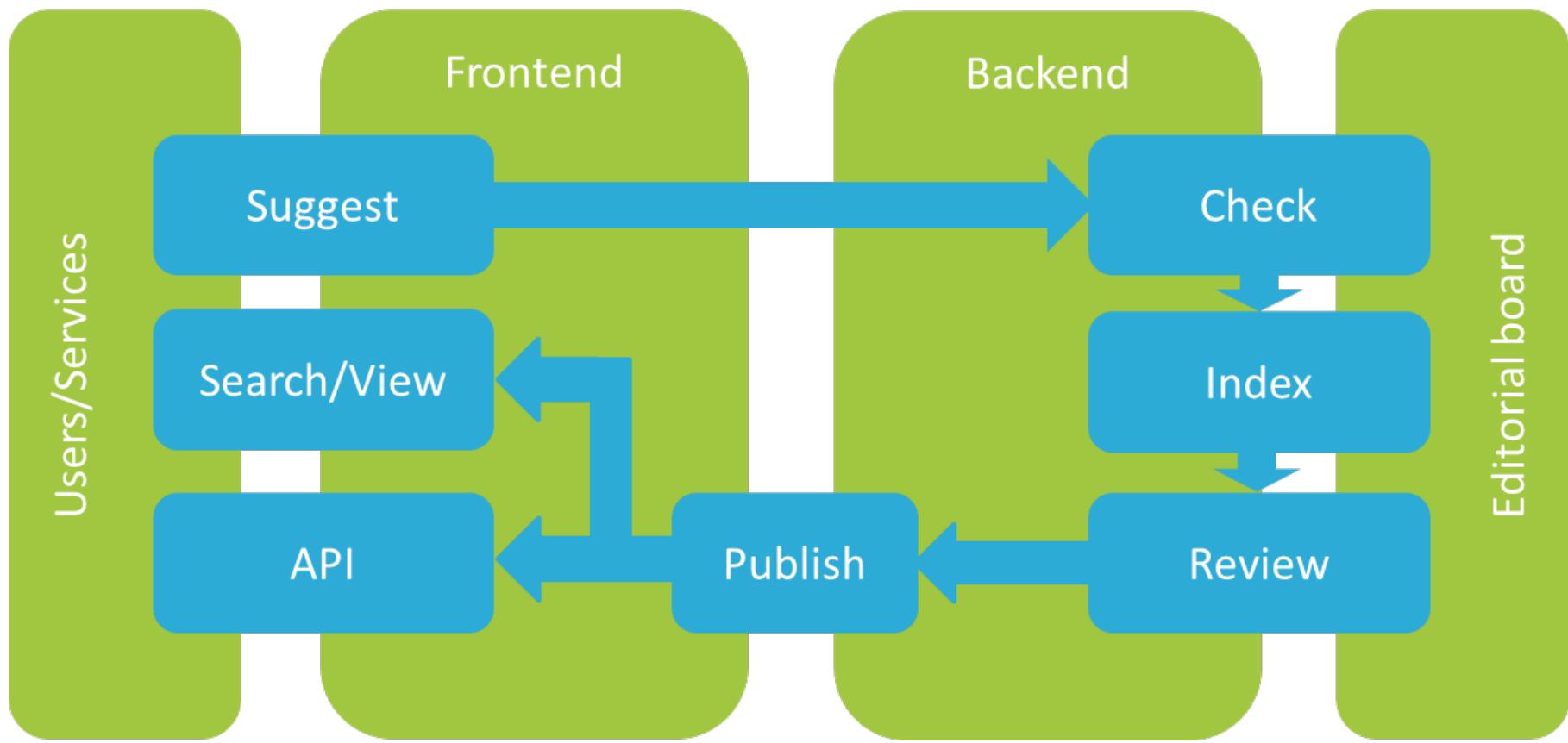
- Das Schema umfasst folgende Aspekte:
  - general information (e.g. short description of the RDR, content types, keywords)
  - responsibilities (e.g. institutions responsible for funding, content or technical issues)
  - policies (e.g. policies of the RDR, incl. their URLs)
  - legal aspects (e.g. licenses of the database and datasets)
  - technical standards (e.g. APIs, versioning of datasets, software of the RDR)
  - quality standards (e.g. certificates, audit processes)

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

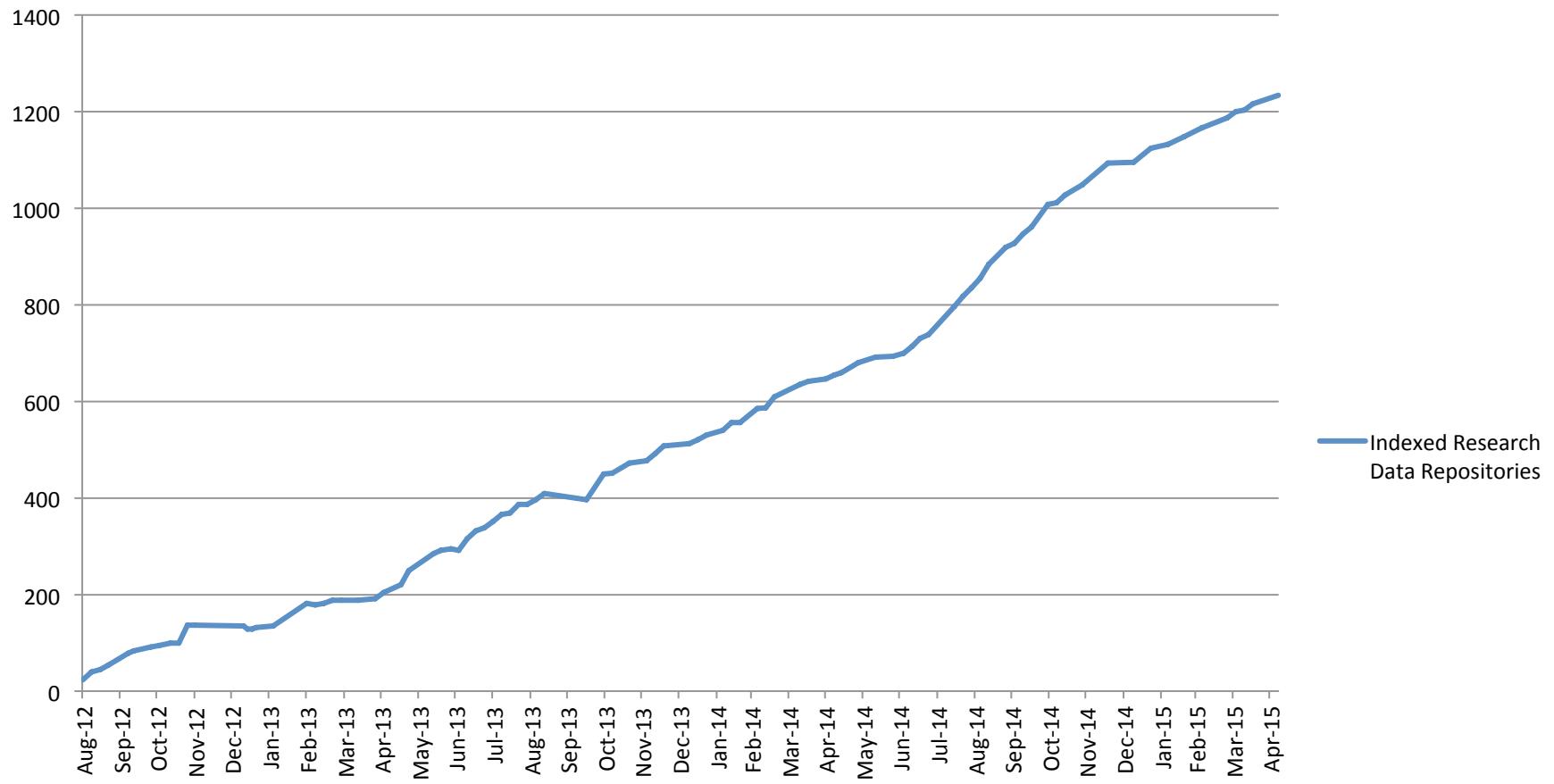
# Icons



# Workflow



# Wachstum



# Verankerung in Leit- und Richtlinien

- Beispiel: Europäische Kommission

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](http://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.

- Beispiel: Universität Bielefeld

- „Verzeichnisse, wie das DFG-geförderte "Registry of Research Data Repositories", bilden die Grundlage für die Suche nach geeigneten Publikationsorten für die Forschungsdaten.“

- Beispiel: Scientific Data (NPG)

- „Physics, astrophysics, astronomy and geoscience databases should be registered with [re3data.org](http://re3data.org).“

# Projektpartner

- Deutschland
  - Deutsches GeoForschungsZentrum GFZ, Library and Information Services (LIS)
  - Humboldt-Universität zu Berlin, Computer- und Medienservice (CMS)
  - Karlsruher Instituts für Technologie (KIT), KIT-Bibliothek
  - Förderung durch die Deutsche Forschungsgemeinschaft
- USA
  - Purdue University, Purdue Libraries
  - Förderung durch das Institute of Museum and Library Services (IMLS)



# Projektpartner

- D
- Databib
- Find Repositories | Submit | Connect | About
- Login/Register
- Featured Repository
- Paleobiology Database
- 993 data repositories total in Databib.
- Recently Added
- Australian Ecological and Knowledge Observation System (AEKOS)
- Data Repository for the University of Minnesota (DRUM)
- Columbia University Academic Commons
- United States Antarctic Program Data Center
- Chinese National Arctic and
- Databib is a searchable catalog / registry / directory / bibliography of research data repositories.
- Databib, re3data.org, and DataCite Announce Collaboration**
- Search  Find Advanced Search
- Browse [ Subjects | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z | All ]
- 1
- 1000 Genomes (Thousand Genomes) (A deep catalog of human genetic variation)  
The 1000 Genomes Project is an international collaboration to produce an extensive public catalog of...
- 3
- 3TU.Datacentrum  
A multidisciplinary data repository for a consortium of universities in the Netherlands housing over...
- A
- Academic Seismic Portal at UTIG (ASP)  
The Academic Seismic Portal (ASP) at UTIG serves up seismic and other data acquired on marine geolog...
- Access to Archival Databases (AAD)  
The AAD is a database through the U.S. National Archives and Records Administration that allows user...
- ACEpepDB: Peptide Database  
ACEpepDB is a database ran by the Central Food Technological Research Institute. It contains records...

# Kooperationspartner

- Deutsche Initiative für Netzwerkinformation (DINI)
- DataCite (MoU, April 2012)
- OpenAIRE (MoU, Oktober 2013)
- BioSharing (MoU, November 2013)
- Databib (MoU, März 2014)
- DataCite (Kooperationsvereinbarung, März 2015)



# Kooperationspartner

•  DataCite

• [ABOUT DATACITE](#) • [DATACITE FOR YOU](#) • [PARTICIPATE](#) • [EVENTS](#) • [NEWS](#) • [JOIN DATACITE](#)

• Home > [DataNews](#) > DataCite to Manage and Develop re3data.org

• **DataCite to Manage and Develop re3data.org**

• May 04, 2015 by  Frauke Ziedorn

• The DataCite General Assembly met at the British Library last week and approved the inclusion of the [re3data.org](#) registry of research data repositories into the portfolio of services that are managed by the DataCite organization.

• Over 1,200 data repositories have been indexed by [re3data.org](#) and can be searched and accessed at its website or by using its [API](#). Bringing this service together with DataCite, who mints and manages Digital Object Identifiers for datasets, will yield new opportunities to explore in combining a registry of data repositories with information about persisted datasets to create new value for the research community.

• A new [re3data.org](#) Working Group within DataCite will be co-chaired by Michael Witt and Frank Scholze, who will also lead the editorial board that evaluates new additions and maintains the records in the registry. Members of the working group will be appointed by the DataCite Executive Board and include equal participation from the original [re3data.org](#) project partners and DataCite member institutions. The working group will convene in September to migrate the operation of



• Events

Keep an eye out for the upcoming future events

• News

**Persistent Identifiers in Paris – Mark Your Diaries and Calendars**

DataCite, in conjunction with...

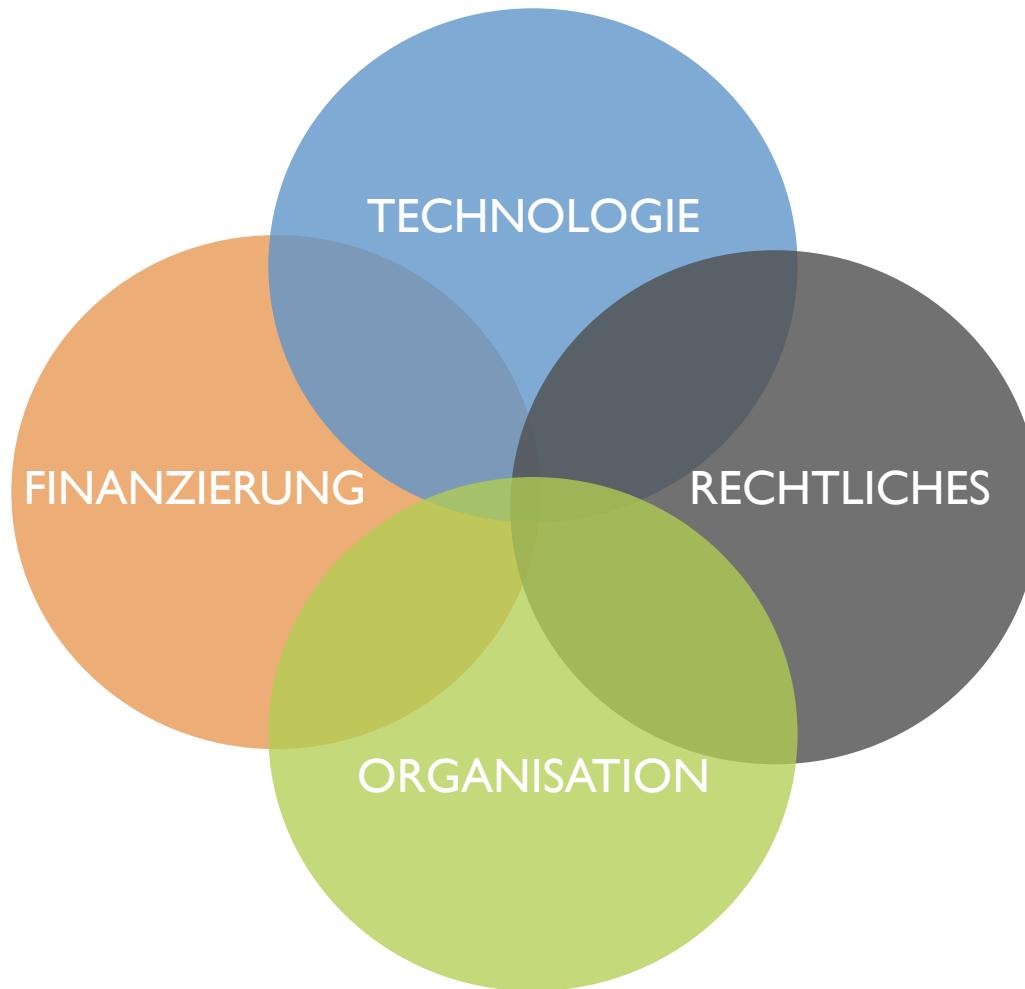
**Job offer: Technical Architect for THOR Project (DataCite)**

DataCite is hiring a Technical Architect for the THOR project. The architect will work collaboratively to lead...

[more](#)



# Vier Dimensionen der Nachhaltigkeit



# Nachhaltigkeit: Technologie

- Offene Schnittstellen
  - RESTful API
  - OpenSearch
  - Dokumentation: <http://www.re3data.org/api/doc>
  - Diverse Nutzungsszenarien z. B. durch OpenAIRE
- Offene Metadaten
  - Dokumentation: <http://www.re3data.org/schema/>
- Langfristiger technischer Betrieb durch das KIT

# Nachhaltigkeit: Rechtliches

- Offene Lizenzen
  - CC BY für die Website
  - CC 0 für die Metadaten

## LICENSES



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To the extent possible under law, [re3data.org](#) has waived all copyright and related or neighboring rights to the database entries of re3data.org.

# Nachhaltigkeit: Organisation

- Zusammenschluss mit Databib im Rahmen von DataCite
- Steuerung durch DataCite Arbeitsgruppe
- Indexierung durch internationales Editorial Board
- Diverse Kooperationen u. a. auch im Rahmen der Research Data Alliance (US/EU/DE)
- „Community Building“ z. B. Entwicklung des Schemas im Dialog mit der relevanten Akteuren
- Wiki Forschungsdaten.org

# Nachhaltigkeit: Finanzierung

- Finanzierung des technischen Betriebs durch DataCite
- Entscheidungen über Weiterentwicklungen und deren Finanzierung durch DataCite
- Ggf. weitere Drittmittelprojekte



# Lessons Learned

- Offenheit als Paradigma des Projekts hat sich bewährt („Open Science“)
- Bereitschaft zu Kooperationen – Vermeidung von Redundanzen
- Offene Konsultationsprozesse sind hilfreich (Beispiel: Entwicklung des Schemas)
- Qualitätssicherung durch internationales Editorial Board
- DataCite – verlässlicher Partner für die Weiterentwicklung

# WHERE DO YOU STORE YOUR RESEARCH DATA?

- USB DRIVE
- DROPBOX
- RESEARCH DATA REPOSITORY

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

Vielen Dank für Ihre Aufmerksamkeit!

# Wiki Forschungsdaten.org

 Pampel Diskussion Einstellungen Beobachtungsliste Beiträge Abmelden

Seite [Diskussion](#) Lesen [Bearbeiten](#) [Versionsgeschichte](#) ▾ Suchen Seite Suchen

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## forschungsdaten.org [Bearbeiten]

Dieses Wiki sammelt Informationen rund um den 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.

[info@re3data.org](mailto:info@re3data.org)



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