

TOOLS FÜR DAS MANAGEMENT VON FORSCHUNGSDATEN

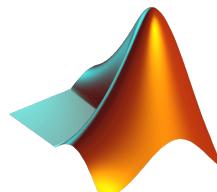
Workshop „Wege in die Köpfe“ des DFG-Projekts „EWIG -
Entwicklung von Workflowkomponenten für die
Langzeitarchivierung von Forschungsdaten in den
Geowissenschaften“

Berlin, 03.07.2014

Heinz Pampel, Deutsches GeoForschungsZentrum GFZ

TOOLS – EINE AUSWAHL

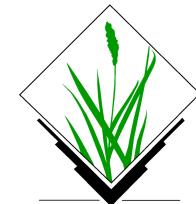
Tools zur Analyse
von
Forschungsdaten



MATLAB



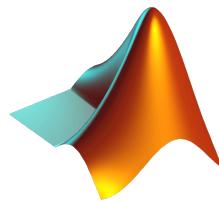
R-Pakete



GRASS GIS

TOOLS – EINE AUSWAHL

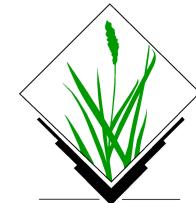
Tools zur Analyse
von
Forschungsdaten



MATLAB



R-Pakete



GRASS GIS

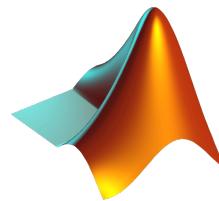
Tools zum
Austausch von
„Daten“



FileZilla

TOOLS – EINE AUSWAHL

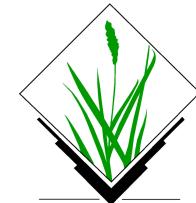
Tools zur Analyse
von
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MATLAB



R-Pakete



GRASS GIS

Tools zum
Austausch von
„Daten“



FileZilla

Tools zum
Management von
Forschungsdaten

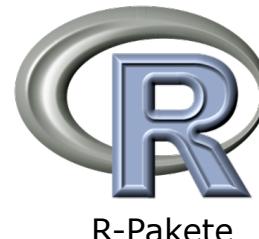


TOOLS – EINE AUSWAHL

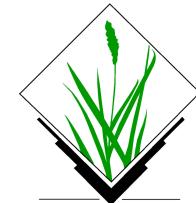
Tools zur Analyse
von
Forschungsdaten



MATLAB



R-Pakete



GRASS GIS

Tools zum
Austausch von
„Daten“



FileZilla

Tools zum
Management von
Forschungsdaten



Tools zur
dauerhaften
Zugänglichkeit von
Forschungsdaten



TOOLS – EINE AUSWAHL



Projects

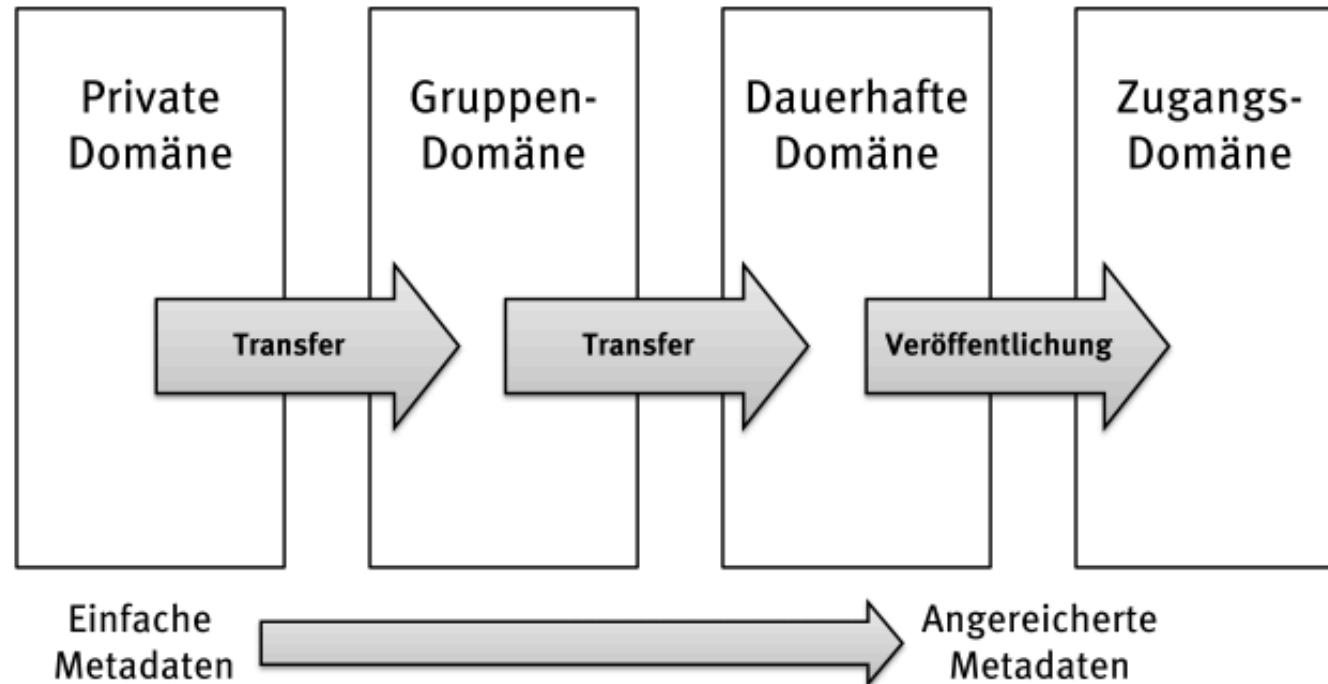
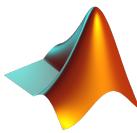


GFZ

Helmholtz Centre
POTS DAM



zenodo



INFRASTRUKTUR ALS ANREIZ

- „Building a source of preservation, and ways easier than
- „The leading reason of funding.“
- „These are difficult quick and easy to

Data Sharing by Scientists: Practices and Perceptions

Carol Tenopir^{1*}, Suzie Allard¹, Kimberly Douglass¹, Arsev Umur Aydinoglu¹, Lei Wu¹, Eleanor Read², Maribeth Manoff², Mike Frame³

¹ School of Information Sciences, University of Tennessee, Knoxville, Tennessee, United States of America, ² University of Tennessee Libraries, University of Tennessee, Knoxville, Tennessee, United States of America, ³ Center for Biological Informatics, United States Geological Survey, Oak Ridge, Tennessee, United States of America

Abstract

Background: Scientific research in the 21st century is more data intensive and collaborative than in the past. It is important to study the data practices of researchers – data accessibility, discovery, re-use, preservation and, particularly, data sharing. Data sharing is a valuable part of the scientific method allowing for verification of results and extending research from prior results.

Methodology/Principal Findings: A total of 1329 scientists participated in this survey exploring current data sharing practices and perceptions of the barriers and enablers of data sharing. Scientists do not make their data electronically available to others for various reasons, including insufficient time and lack of funding. Most respondents are satisfied with their current processes for the initial and short-term parts of the data or research lifecycle (collecting their research data; searching for, describing or cataloging, analyzing, and short-term storage of their data) but are not satisfied with long-term data preservation. Many organizations do not provide support to their researchers for data management both in the short- and long-term. If certain conditions are met (such as formal citation and sharing reprints) respondents agree they are willing to share their data. There are also significant differences and approaches in data management practices based on primary funding agency, subject discipline, age, work focus, and world region.

Conclusions/Significance: Barriers to effective data sharing and preservation are deeply rooted in the practices and culture of the research process as well as the researchers themselves. New mandates for data management plans from NSF and other federal agencies and world-wide attention to the need to share and preserve data could lead to changes. Large scale programs, such as the NSF-sponsored DataNet (including projects like DataONE) will both bring attention and resources to the issue and make it easier for scientists to apply sound data management principles.

Citation: Tenopir C, Allard S, Douglass K, Aydinoglu AU, Wu L, et al. (2011) Data Sharing by Scientists: Practices and Perceptions. PLoS ONE 6(6): e21101. doi:10.1371/journal.pone.0021101

Editor: Cameron Neylon, Science and Technology Facilities Council, United Kingdom

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Competing interests: The authors have declared that no competing interests exist.

* E-mail: ctenopir@utk.edu

Introduction

Data are the infrastructure of science. Sound data are critical as they form the basis for good scientific decisions, wise management and use of resources, and informed decision-making. Moreover, “science is becoming data intensive and collaborative” [1]. The amount of data collected, analyzed, re-analyzed, and stored has increased enormously due to developments in computational simulation and modeling, automated data acquisition, and communication technologies [2]. Following the previous research paradigm (experimental, theoretical, and computational), this new era has been called “the fourth paradigm: data-intensive scientific discovery” where “all of the science literature is online, all of the science data is online, and they interoperate with each other” [3]. Digital data are not only the outputs of research but provide inputs to new hypotheses, enabling new scientific insights and driving innovation [4].

As science becomes more data intensive and collaborative, data sharing becomes more important. Data sharing includes the deposition and preservation of data; however, it is primarily

associated with providing access for use and reuse of data. Data sharing has many advantages, including:

- re-analysis of data helps verify results data, which is a key part of the scientific process;
- different interpretations or approaches to existing data contribute to scientific progress –especially in an interdisciplinary setting;
- well-managed, long-term preservation helps retain data integrity;
- when data is available, (re-)collection of data is minimized; thus, use of resources is optimized;
- data availability provides safeguards against misconduct related to data fabrication and falsification;
- replication studies serve as training tools for new generations of researchers [5][6][7]

Additionally, researchers, data managers and publishers in the PARSE survey overwhelmingly agreed that public funding was the

a sharing, it is in some time and lack s that make it st may help.”

Tenopir, C. et al. (2011). Data Sharing by Scientists: Practices and Perceptions. PLoS ONE, 6(6), doi:10.1371/journal.pone.0021101

INFRASTRUKTUR ALS ANREIZ

- „Building a sound infrastructure for data sharing, preservation, and use is a challenge, but is in some ways easier than changing a culture.“
- „The leading reasons were insufficient time and lack of funding.“
- „These are difficult to solve, but systems that make it quick and easy to share data without cost may help.“

INFRASTRUCTURE AS ANREIZ

- „A key finding
be developed.
incentive sys-
schemes.“
- „The technical
by simplifying
- „Several stake-
to funders have
address rese-
and make th-

Grant agreement no. 261530



ODE - Opportunities for Data Exchange

Theme: Research Infrastructures

Topic: INFRA-2010-3.3 Coordination actions, conferences and studies supporting policy development, including international cooperation, for e-Infrastructures

D6.1 SUMMARY OF THE STUDIES, THEMATIC PUBLICATIONS AND RECOMMENDATIONS



Document identifier: **ODE-WP6-DEL-0001-1_0**

Date: **26 Oct 2012**

Work package: **WP6**

Partners: **APA, CERN, CSC, HA, STFC**

WP Lead Partner: **CSC**

Deliverable: **D6.1**

Document status: **Final Version**

INFRASTRUKTUR ALS ANREIZ

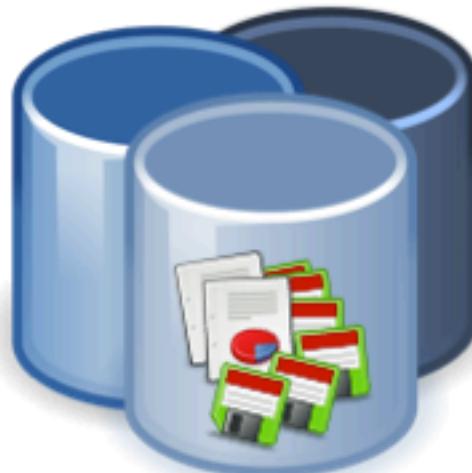
- „A key finding is that incentives for data sharing have to be developed. These have to be linked to the academic incentive system as well as to the research assessment schemes.“
- „The technical barriers to share data have to be reduced by simplifying data sharing workflows.“
- „Several stakeholders, from publishers or data centres to funders have to be involved in this process to address researchers' hesitation to manage their data and make them available.“

RAHMENBEDINGUNGEN

***Investigators are expected
to share their data!***



funders



research data
repositories



scientists

Where can I find data?



journals

***Underlying data
must be accessible!***

***Should we offer
repositories
for all disciplines?***



universities and
research labs

RAHMENBEDINGUNGEN

***Investigators are expected
to share their data!***



funders



Where can I store my data?



research data
repositories

Where can I find data?



scientists

***Underlying data
must be accessible!***



journals

***Should we offer
repositories
for all disciplines?***



universities and
research labs

RAHMENBEDINGUNGEN

- Data Policies von Förderorganisationen
 - Europäische Kommission: HORIZON 2020

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).



Data management in Horizon 2020

- Data Management Plans (DMPs) mandatory for all projects participating in the pilot (deliverable within the first six months)
- Other projects invited to submit a DMP if relevant for their planned research
- DMP questions:
 - What data will be collected / generated?
 - What standards will be used / how will metadata be generated?
 - What data will be exploited? What data will be shared/made open?
 - How will data be curated and preserved?

29.3
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RAHMENBEDINGUNGEN

- Data Policies von Journals
 - Beispiel PLOS ONE

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.

Please describe where your data may be found, writing in full sentences. **Your answers should be entered into the box below and will be published in the form you provide them, if your manuscript is accepted.** If you are copying our sample text below, please ensure you replace any instances of **XXX** with the appropriate details.

Verlagsplattform

- If your data are all contained within the paper and/or Supporting Information files, please state this in your answer below. For example, "All relevant data are within the paper and its Supporting Information files."
- If your data are held or will be held in a public repository, include URLs, accession numbers or DOIs. For example, "All **XXX** files are available from the **XXX** database (accession number(s) **XXX, XXX**). If this information will only be available after acceptance, please indicate this by ticking the box below.
- If neither of these applies but you are able to provide details of access elsewhere, with or without limitations, please do so in the box below. For example:

"Data are available from the **XXX** Institutional Data Access / Ethics Committee for researchers who meet the criteria for access to confidential data."

"Data are from the **XXX** study whose authors may be contacted at **XXX**."

* typeset

Answer
Required:

Character Count: 0

Limit
20000
characters

re3data.org

The screenshot shows the homepage of re3data.org. At the top, the logo "re3data.org" and the subtitle "REGISTRY OF RESEARCH DATA REPOSITORIES" are displayed. Below the logo is a navigation bar with links: Home, Search, Browse, Suggest, FAQ, About, Schema, Contact, and Imprint. The main content area is titled "Search for Repositories" and indicates there are 676 Reviewed Repositories. A search bar with a "Search" button is present. Below the search bar are three filter sections: "Subject" (Add subjects), "Content Type" (Add content types), and "Country" (Add countries). Under "Content Type", there are checkboxes for Certificates, Open Access, Persistent Identifier, and an option to "Include Repositories not yet reviewed by re3data.org". A "Clear" button is located at the bottom right of this section. Below these filters is a pagination bar showing "676 results (1 - 25)" with a dropdown menu, followed by a page number selector from 1 to 28. The first result listed is "3TU.Datacentrum" under "3TU.DC". It includes a list of subjects (Engineering Sciences, Natural Sciences), content types (Archived data, Audiovisual data, Images, Plain text, Raw data, Scientific and statistical data formats, Standard office documents, Structured text), and countries (Netherlands). A brief description follows: "3TU.Datacentrum is an archive for research data. It offers the knowledge, experience and the tools to share and safely store scientific research data in a standardized, secure and well-documented manner. 3TU.Datacentrum provides the research community with: • Advice and support on data management • A long-term archive for scientific research... more »". The second result listed is "ALLBUS" under "Allgemeine Bevölkerungsumfrage der Sozialwissenschaften". It includes a list of subjects (Engineering Sciences, Natural Sciences) and content types (Archived data, Audiovisual data, Images, Plain text, Raw data, Scientific and statistical data formats, Standard office documents, Structured text). A brief description follows: "ALLBUS is an archive for research data. It offers the knowledge, experience and the tools to share and safely store scientific research data in a standardized, secure and well-documented manner. ALLBUS provides the research community with: • Advice and support on data management • A long-term archive for scientific research... more »". Both results have a set of social media sharing icons (i, a, c, doi, r, s, v) to their right.

- Projektpartner:
 - Deutsches GeoForschungsZentrum GFZ, Bibliothek und Informationsdienste (LIS)
 - Humboldt-Universität zu Berlin, Institut für Bibliotheks- und Informationswissenschaft (IBI)
 - Instituts für Technologie (KIT), KIT-Bibliothek
- Förderorganisation:
 - Deutsche Forschungsgemeinschaft
 - Phase 1: 2013-2014
 - Phase 2: 2014-2015
- Diverse Kooperationspartner

re3data.org

- Aufbau eines Verzeichnisses zur Beschreibung von Forschungsdaten-Repositorien
- Unterstützung für Forschende, Förderorganisationen und Einrichtungen der Informationsinfrastruktur
- Beitrag zur Weiterentwicklung der Forschungsdaten-Repositorien (Standardisierung und Professionalisierung)
- Nationaler Beitrag zur weltweiten Diskussion über die Schaffung von offenen Forschungsdaten-Infrastrukturen

re3data.org

- Version 1.0 (2012)
 - Resultat einer Bestandsaufnahme
 - <http://doi.org/10.2312/re3.001>
- Version 2.0 (2012)
 - Ergebnis einer öffentlichen Konsultation
 - <http://doi.org/10.2312/re3.002>
 - <http://www.re3data.org/schema/2-0/>
- Version 2.1 (2013)
 - Zusammenarbeit mit Kooperationspartnern
 - <http://doi.org/10.2312/re3.004>
 - <http://www.re3data.org/schema/2-1/>
- Neue Version in Arbeit (2014)

The screenshot shows the schema page for Version 2.1 of the Registry of Research Data Repositories. At the top is the re3data.org logo with the tagline "REGISTRY OF RESEARCH DATA REPOSITORIES". Below the logo is the title "Schema for the Description of Research Data Repositories". A horizontal line separates this from the version information: "Version 2.1" and "Dezember 2013". Below that is the DOI: "DOI: <http://doi.org/10.2312/re3.004>". The authors listed are Paul Vierkant, Shaked Spier, Jessika Rücknagel, Heinz Pampel, Jens Gundlach, David Fichtmüller, Maxi Kindling, Agnes Kirchhoff, Hans-Jürgen Goebelbecker, Jens Klump, Gabriele Kloska, Evelyn Reuter, Angelika Semrau, Edeltraud Schnepf, Michael Skarupianski, Roland Bertelmann, Peter Schirmbacher, Frank Scholze, and Claudia Kramer. Below the author list are four superscripted letters: a, b, c, and d, each followed by an institution name. The letter 'a' is associated with GFZ German Research Centre for Geosciences, Library and Information Services (LIS). The letter 'b' is associated with Humboldt-Universität zu Berlin, Berlin School of Library and Information Science (BLIS). The letter 'c' is associated with Karlsruhe Institute of Technology (KIT), KIT Library. The letter 'd' is associated with Botanic Garden and Botanical Museum Berlin-Dahlem, Freie Universität Berlin. Further down the page is a "Contact" section with email addresses: "info@re3data.org" and "http://www.re3data.org". At the bottom left is a note about the license: "Except where otherwise noted, this work is licensed under <http://creativecommons.org/publicdomain/zero/1.0/>". At the bottom right is a "CC0 PUBLIC DOMAIN" logo.

Vierkant, P., et al. (2013). Schema for the Description of Research Data Repositories. Version 2.1. doi:10.2312/re3.004

simple
search box

filters

results

Search for Repositories (676 Reviewed Repositories)

geosciences



Search

Subject

Add subjects

Content Type

Add content types

Country (of the responsible institutions)

Add countries

Germany

Certificates

Open Access

Persistent Identifier

Include Repositories not yet reviewed by re3data.org

Clear

34 results (filtered) (1 – 25)

icons

« 1 2 »

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.

[◀ Back to results](#)
[General](#) [Institutions](#) [Terms](#) [Standards](#)

General information

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

[◀ Back to results](#)
[✍ Text Edit](#)
[GUI Edit](#)

[◀ Back to results](#)
[General](#) [Institutions](#) [Terms](#) [Standards](#)

Responsible institutions (2)

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

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

PANGAEA


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

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

Legal aspects

Database access

Type of access to research data repository	open
--	------

Data access

Type of access to data	open
------------------------	------

Data licences (1)

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

Data upload

Type of data upload	restricted
Data upload restriction type	registration
Data upload license name	Data Submission
Data license URL	http://wiki.pangaea.de/wiki/Data_submission

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

[◀ Back to results](#)
[General](#) [Institutions](#) [Terms](#) [Standards](#)

Standards

Name of the repository software	other
Versioning	yes
Persistent identifier system	DOI
Data citation guideline	http://wiki.pangaea.de/wiki/Citation
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

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

re3data.org

Possible values for each icon

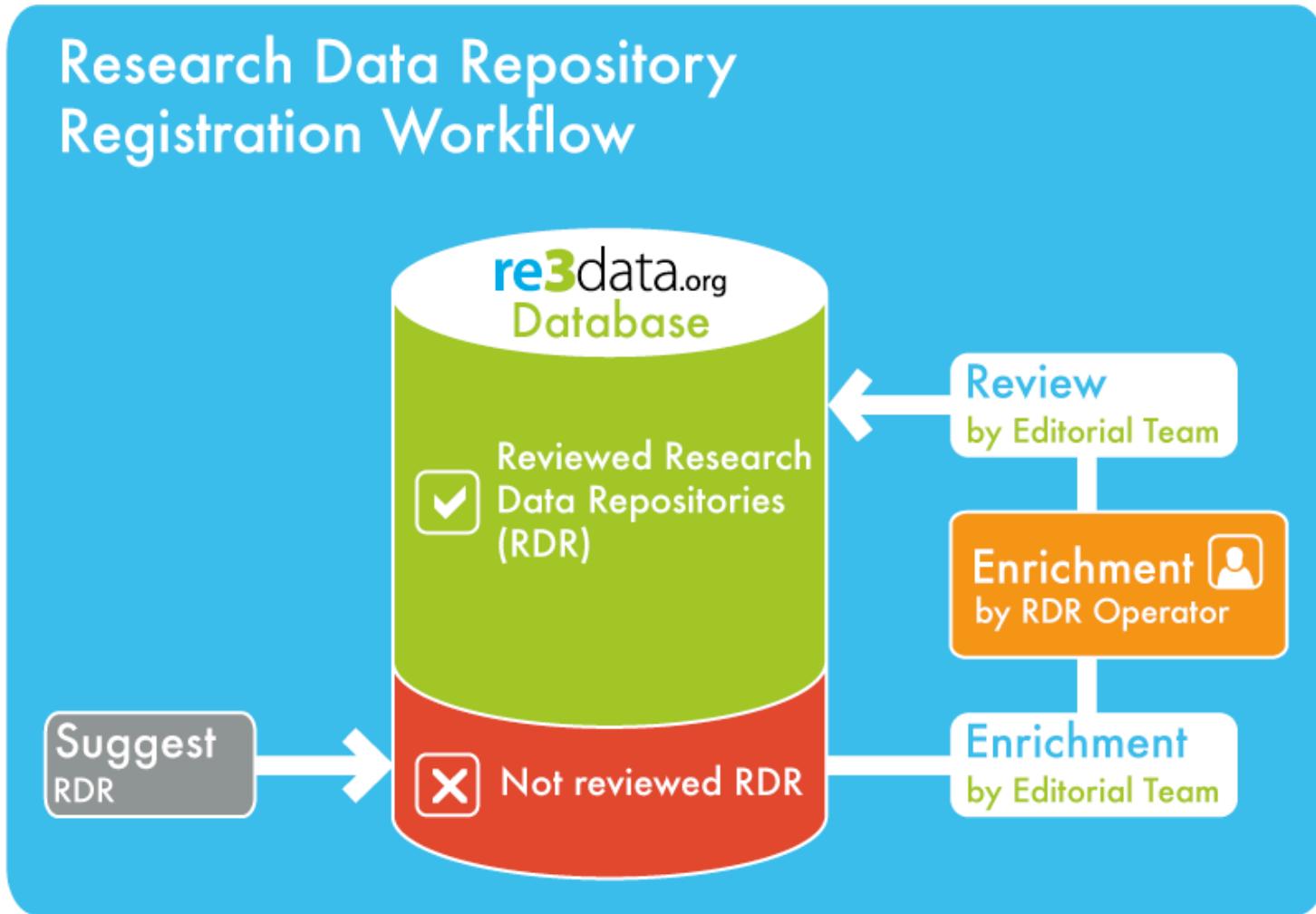
Information	Access	Licenses	Persistent Identifier	Certificates and Standards	Reviewed

- 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

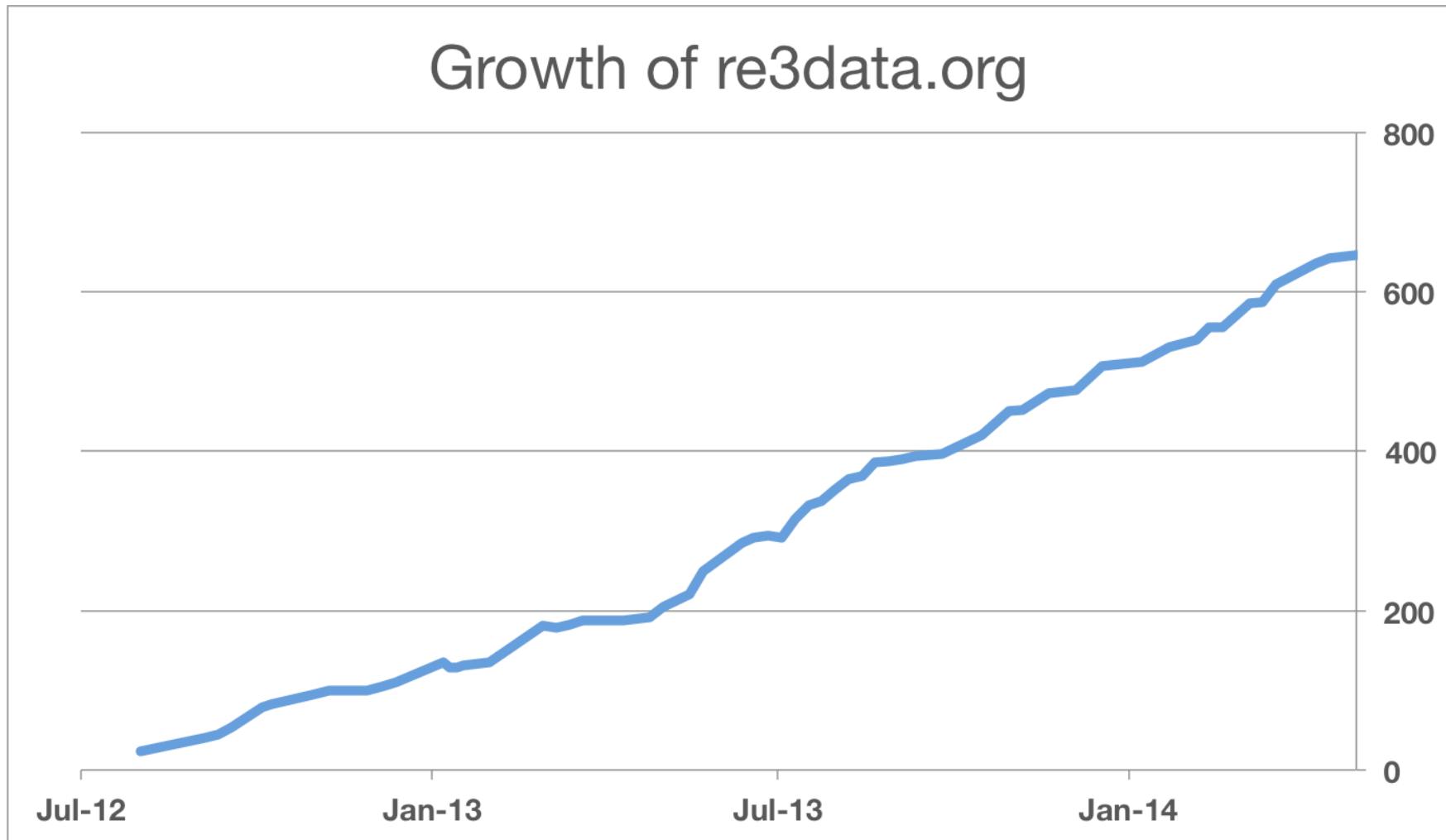
re3data.org

Research Data Repository Registration Workflow



re3data.org

Growth of re3data.org



- Kooperationen: Verlage



The screenshot displays the Copernicus Publications website. At the top left is a sidebar with "Home", "Objectives", and "Contact". The main header reads "The Innovative Open Access Publisher". Below the header, there's a "Data Policy" section which states: "Copernicus Publications recommends depositing data that correspond to journal articles in reliable data repositories, such as figshare or Data Dryad, identifying the datasets in the journal article and linking them to a repository." To the right of this is a "SpringerPlus" section, which is described as "a SpringerOpen Journal". The SpringerPlus page includes tabs for "Home", "Articles", "Authors", "Reviewers", "About this journal", and "My SpringerPlus". A "Submit for FREE now" button is visible. At the bottom of the SpringerPlus section, there's a "Policies & Procedures" section with the text: "Open, ethical, and adherence to discipline-specific best practices." A "GFZ" logo is at the bottom left, and a "HELMHOLTZ GEMEINSCHAFT" logo is at the bottom right.

- Kooperationen: Verlage

The Innovative Open Access Publisher

Copernicus Publications
The Innovative Open Access Publisher

Environmental & geoscience

National Climatic Data Center (NCDC)	view re3data entry
Oak Ridge National Laboratory Distributed Active Archive Center (ORNL DAAC)	view re3data entry
Cold and Arid Regions Science Data Center (Lanzhou, China) (CARD)	view re3data entry
NERC Data Centres	
LTER Community Data Repository	view re3data entry
PANGAEA	view re3data entry

SCIENTIFIC DATA

Home | About | For Authors | For Reviewers | Data deposition policies | Indexing services | SpringerPlus | Instructions for Authors

Data deposition policies

Scientific Data publishes descriptive metadata for datasets and makes described datasets available. These datasets will be made available with the scientific context in which they were produced.

Scientific Data will provide a search function to find datasets across many different data repositories. *Scientific Data* encourages submission of datasets to existing repositories, and recommends deposition to figshare or Data Dryad when specific requirements exist for a particular dataset. For more information on this policy please see our related document.

Open, ethical, and adherence to discipline-specific best practices.

Open Access Copyright Policy

- Kooperationen: Förderorganisationen



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.

2) **Step 2:** as far as possible, projects must then take measures to enable for third parties to access, mine, exploit, reproduce and disseminate (free of charge for any user) this research data. One straightforward and effective way of doing this is to attach Creative Commons Licence (CC-BY or CC0 tool) to the data deposited (<http://creativecommons.org/licenses/>, <http://creativecommons.org/about/cc0>).

European Comission. (2013). Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020. Retrieved from http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

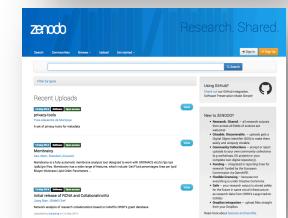
DEFINITION

- Spannungsfeld: Anspruch – Wirklichkeit
 - „Research Data Infrastructures can be defined as managed networked environments for digital research data consisting of services and tools that support: (i) the whole research cycle, (ii) the movement of research data across scientific disciplines, (iii) the creation of open linked data spaces by connecting data sets from diverse disciplines, (iv) the management of scientific workflows, (v) the interoperation between research data and literature and (vi) an integrated Science Policy Framework.“

GRDI2020. (2012). GRDI2020 Final Roadmap Report. Global Research Data Infrastructures: The Big Data Challenges. Retrieved from <http://www.grdi2020.eu/Repository/FileScaricati/e2b03611-e58f-4242-946a-5b21f17d2947.pdf>

TYPOLOGIE

- Disziplinäre Forschungsdaten-Repositorien
- Institutionelle Forschungsdaten-Repositorien
- Projektspezifische Forschungsdaten-Repositorien
- Multidisziplinäre Forschungsdaten-Repositorien
- Portale, die verteilte Datensammlungen zugänglich machen



HERAUSFORDERUNGEN

- „The three main challenges in developing an ecosystem of data repositories are (1) gaps in the present data infrastructure and (2) **connectivity issues** (between the workflow of researchers and the institutional data infrastructure and between institutional and national data infrastructures) and (3) long-term financial basis.“

HERAUSFORDERUNGEN

- „Research data infrastructures must provide some network-enabled “**support services**” in order to achieve the conditions needed to facilitate effective collaboration among spatially and institutionally separated communities of research.“ (GRDI2020, 2012)

AKZEPTANZ

- u. a. Abhängig von:
 - „connectivity issues“ – Integration in den wissenschaftlichen Arbeitsablauf
 - „support services“ – Unterstützung und Mehrwert

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Volume 66, Issues 3–4, 20 February 2008, Pages 192–207

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The sediment cores 225514 and 225510 were recovered from 420 and 285 m water depth, respectively. They were investigated for their benthic foraminiferal $\delta^{13}\text{C}$ during the last 500 years. Both cores were recovered from the southern flank of the Skagerrak. The $\delta^{13}\text{C}$ values of *Uvigerina mediterranea* and other shallow infaunal species in both cores indicate that organic matter rain rates to the seafloor varied around a mean value until approximately AD 1950 after which they increased. This increase might result from changes in the North Atlantic Current System and a co-occurring persistently high North Atlantic Oscillation index state in the 1980s to 1990s, rather than from anthropogenic eutrophication. Using $\delta^{13}\text{C}$ mean values of multiple species, we reconstruct $\delta^{13}\text{C}$ gradients of dissolved inorganic carbon (DIC) within pore waters for the time periods AD 1500 to 1950 and AD 1950 to 2000. The calculated $\delta^{13}\text{C}_{\text{DIC}}$ ranges, interpreted as indicating total organic matter remineralization due to respiration, are generally bigger in Core 225514 than in Core 225510. Since mean $\delta^{13}\text{C}$ values of *U. mediterranea* suggest that organic matter rain rates were

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Citation: Brückner, S; Mackensen, A (2008): Stable carbon isotope composition of benthic foraminifera from sediments of the Skagerrak, North Sea.
doi:10.1594/PANGAEA.676719,
Supplement to: Brückner, Sylvia; Mackensen, Andreas (2008): Organic matter rain rates, oxygen availability, and vital effects from benthic foraminiferal d13C in the historic Skagerrak, North Sea. *Marine Micropaleontology*, 66(3-4), 192-207,
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Related to: Brückner, Sylvia (2008): Climatic and hydrographic variability in the late Holocene Skagerrak as deduced from benthic foraminiferal proxies (Klimatische und hydrographische Variabilität im holozänen Sagerrak, abgeleitet aus benthischen Foraminiferen). *Berichte zur Polar- und Meeresforschung = Reports on Polar and Marine Research*, 572, 139 pp, doi:10.1013/epic.28879

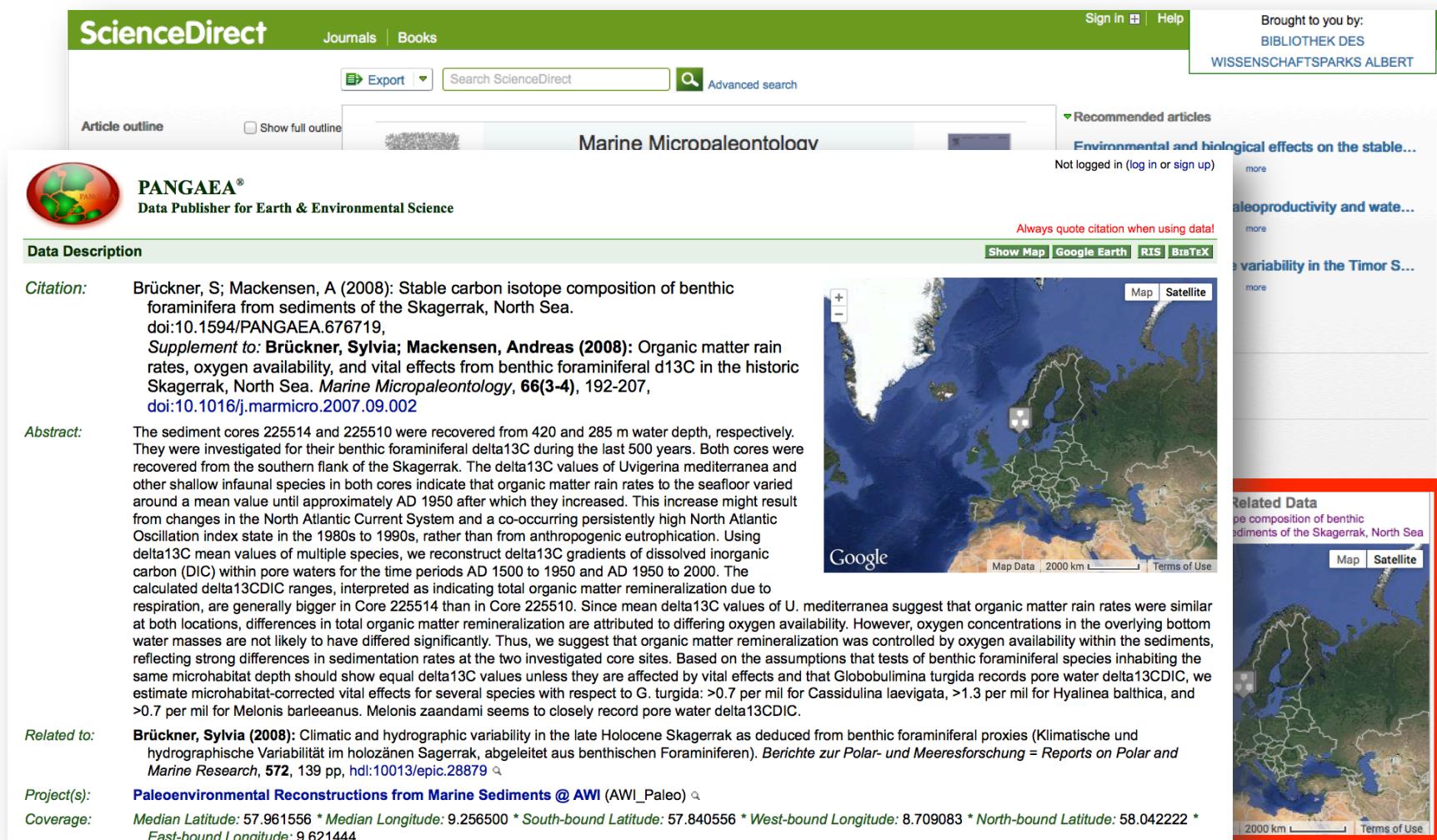
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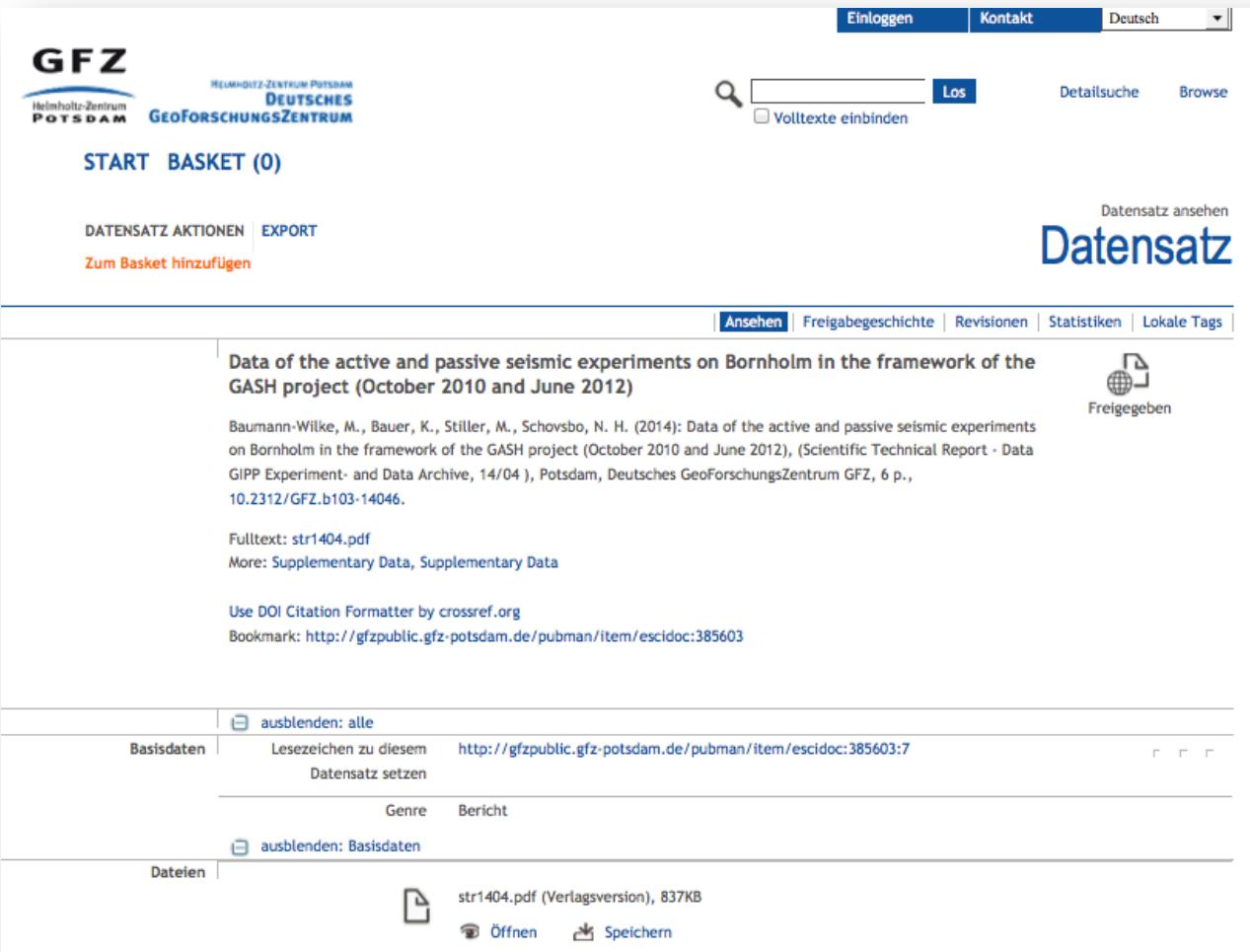
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Terms	Definition	Illustration
accessible	„Data and information can readily be found“	
assessable	„In addition to the data or information account of the results of science, scrutiny and audit“	
intelligible	„Comprehensible by an audience who have no claim to scientific reliability or disciplinary distinction.“	
useable	„In addition to showing them the way, The Royal Society believes that the public should be able to use the information. Data for their purposes, and meta-data for those who wish to use them.“	

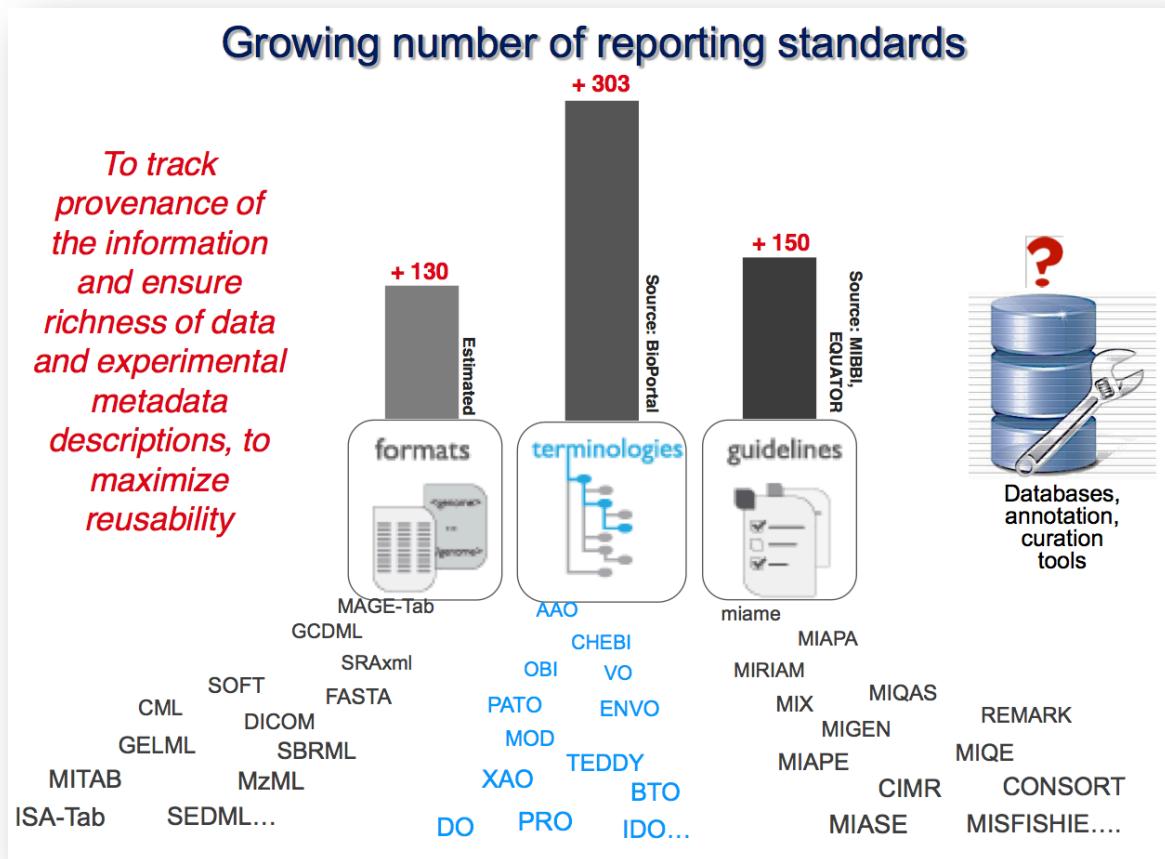
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INTELLIGENT OPENNESS

Terms	Definition
accessible	„Data must be located in such a manner that it can readily be found and in a form that can be used.“
assessable	„In a state in which judgments can be made as to the data or information's reliability. Data must provide an account of the results of scientific work that is intelligible to those wishing to understand or scrutinise them. Data must therefore be differentiated for different audiences.“
intelligible	„Comprehensive for those who wish to scrutinise something. Audiences need to be able to make some judgment or assessment of what is communicated. They will need to judge the nature of the claims made. They should be able to judge the competence and reliability of those making the claims. Assessability also includes the disclosure of attendant factors that might influence public trust.“
useable	„In a format where others can use the data or information. Data should be able to be reused, often for different purposes, and therefore will require proper background information and meta-data. The usability of data will also depend on those who wish to use them.“

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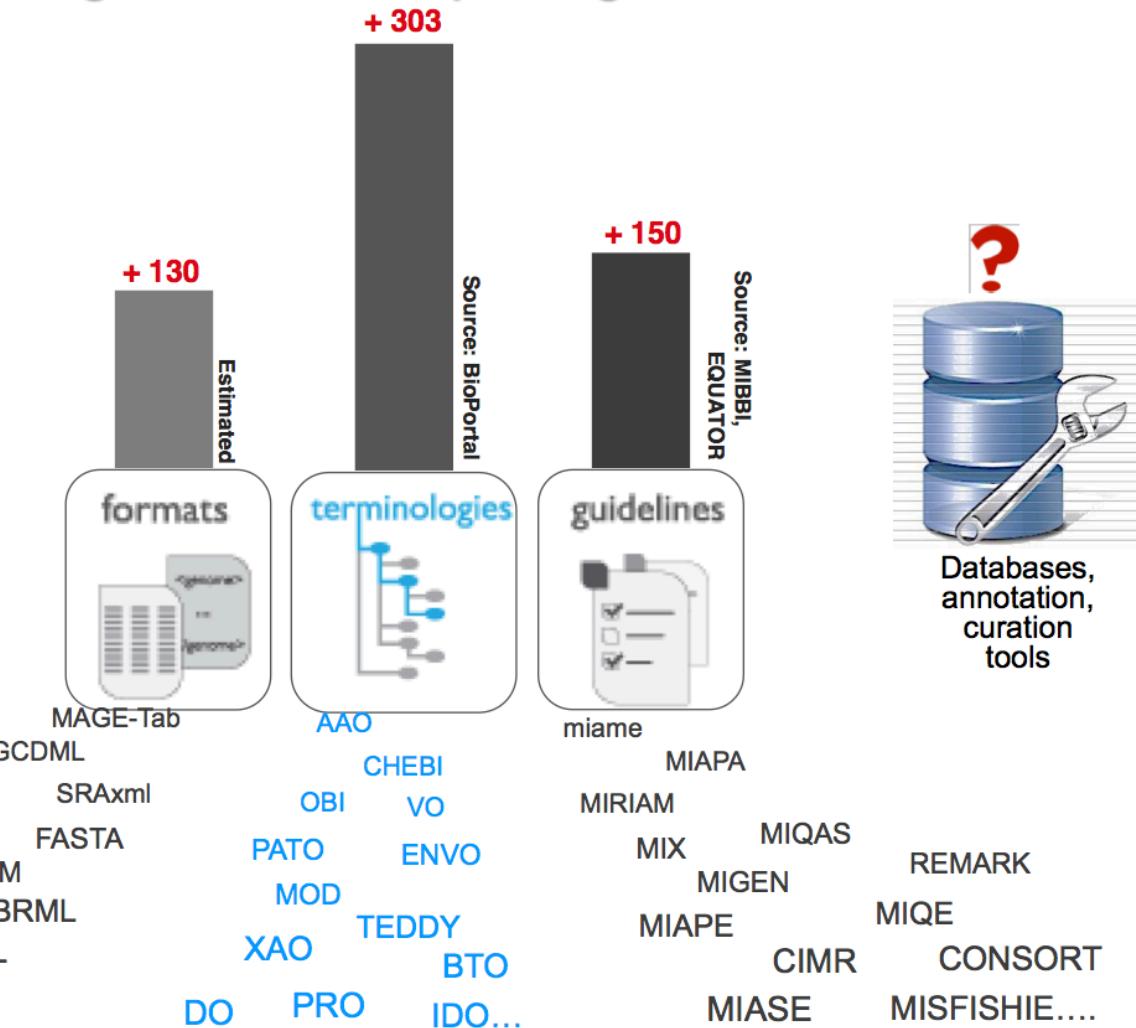


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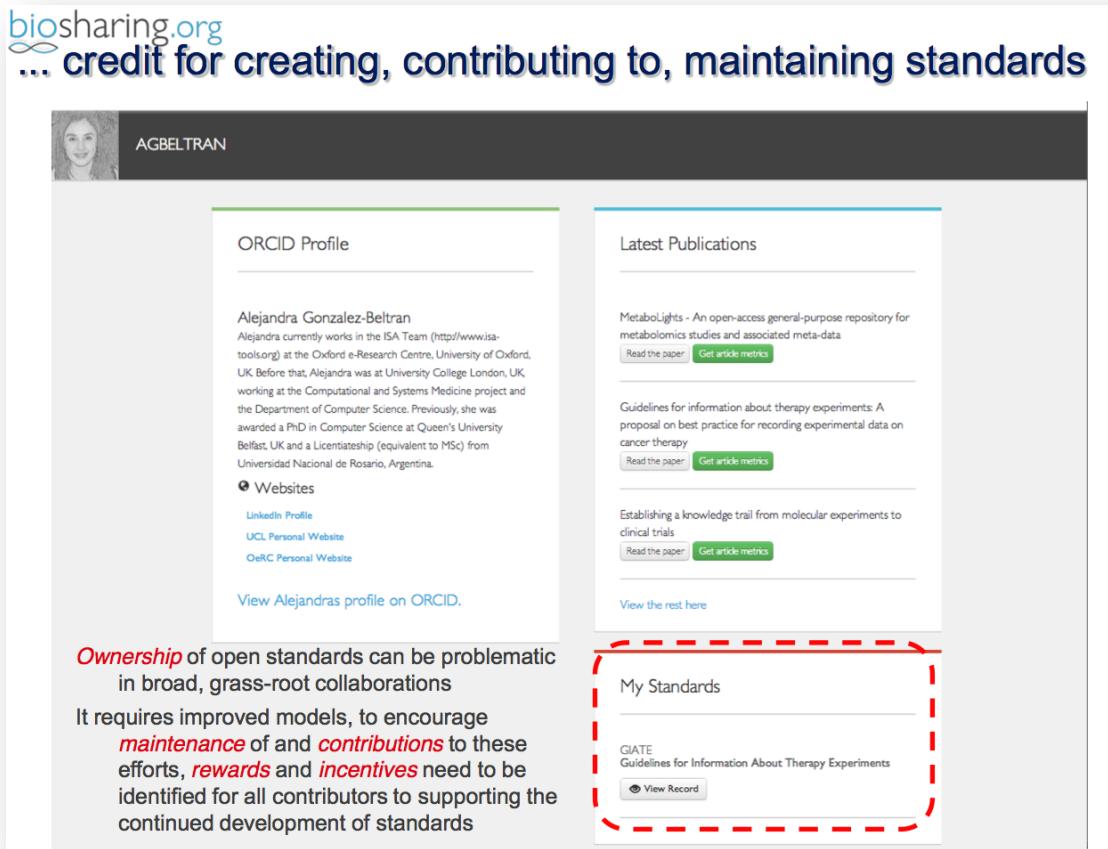
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*To track
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- ORCID Profile**: Contains a brief biography of Alejandra, mentioning her work at the ISA Team and previous experience at University College London and Queen's University Belfast. It also lists her websites (LinkedIn, UCL Personal Website, QeRC Personal Website) and a link to view her profile on ORCID.
- Latest Publications**: Shows two publications: "Metabolights - An open-access general-purpose repository for metabolomics studies and associated meta-data" and "Guidelines for information about therapy experiments: A proposal on best practice for recording experimental data on cancer therapy". Each publication has "Read the paper" and "Get article metrics" buttons.
- My Standards**: A section highlighted with a red dashed border, containing the "GATE Guidelines for Information About Therapy Experiments" and a "View Record" button.

Ownership of open standards can be problematic in broad, grass-root collaborations
It requires improved models, to encourage **maintenance** of and **contributions** to these efforts, **rewards** and **incentives** need to be identified for all contributors to supporting the continued development of standards

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- BioSharing.org
... credit for creating, contributing to, maintaining standards

The screenshot shows a bioSharing.org profile page for Alejandra Gonzalez-Beltran. At the top, there is a small portrait photo and the name "AGBELTRAN". Below this, there are two main sections: "ORCID Profile" and "Latest Publications".

ORCID Profile:

Alejandra Gonzalez-Beltran
Alejandra currently works in the ISA Team (<http://www.isatools.org>) at the Oxford e-Research Centre, University of Oxford, UK. Before that, Alejandra was at University College London, UK, working at the Computational and Systems Medicine project and the Department of Computer Science. Previously, she was awarded a PhD in Computer Science at Queen's University Belfast, UK and a Licentiatehip (equivalent to MSc) from Universidad Nacional de Rosario, Argentina.

Websites:

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- [UCL Personal Website](#)
- [OeRC Personal Website](#)

[View Alejandra's profile on ORCID.](#)

Ownership of open standards can be problematic in broad, grass-root collaborations

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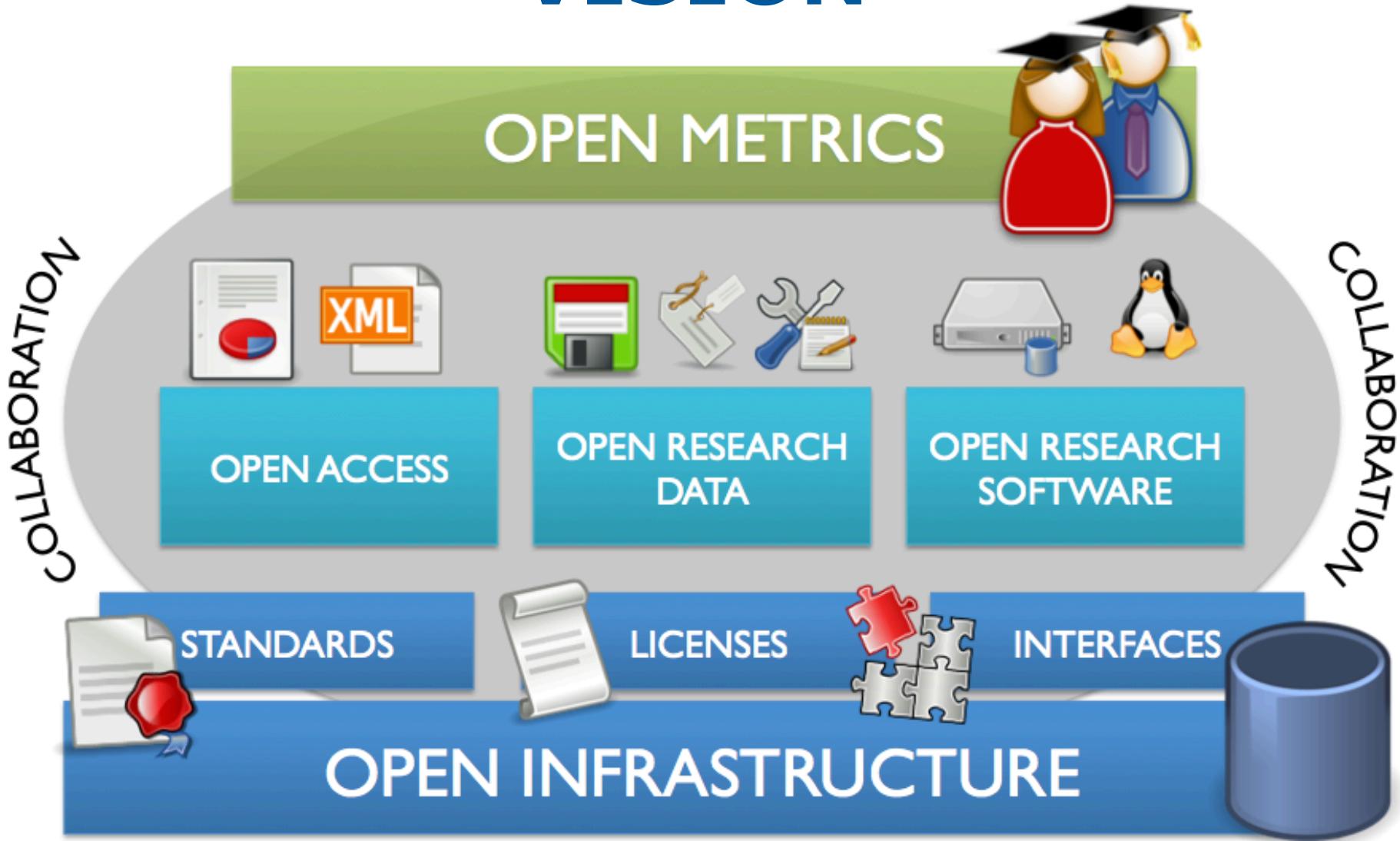
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- Top Navigation:** Includes links for LOGIN, REGISTER, and RDA GLOBAL, along with a search bar and social media icons for ALL SOCIAL, Twitter, LinkedIn, RSS, and Facebook.
- Breadcrumbs:** Shows the navigation path: Home > Events > RDA Europe Events.
- Event Details (04.06.2014):** Headline: "Research Data Alliance Deutschland Treffen". Subtext: "EINLADUNG 20.-21. November 2014 (Mittag zu Mittag) GFZ Deutsches GeoForschungs Zentrum Telegrafenberg 14473 Potsdam. Haus H, Hörsaal".
- Motivation:** A section explaining the purpose of the meeting, mentioning the Research Data Alliance's mission to facilitate the efficient use of research data through international collaboration and standardization.
- Quick Links:** A sidebar with links to RDA Europe Events, RDA Europe News, RDA Global, and RDA Plenary.
- Navigation:** A sidebar with links to About, About, and Communication Kit.

10 PUNKTE

The screenshot shows a white page with a blue header bar. The header bar contains the text "handbuch.io" and "Handbuch CoScience/Publikation von Forschungsdaten". Below the header, there is a red link "[Handbuch CoScience](#)". The main content area has a light gray background. At the top left, it says "Autoren: Heinz Pampel, Janna Neumann" and "Kontributoren: Martin Fenner, Marco Tullney". Below this, a DOI is listed: "DOI: 10.2314/coscv1.53". The main text discusses the increasing discussion about the handling of research data in science and how technological development makes data more available and reusable. It highlights the expectation of better review and transparency. A bulleted list follows:

- Nachnutzung: Im Zentrum steht hier die Erwartung, dass einzigartige Daten in anderen Kontexten wiederverwertet werden. Eng verbunden ist damit die Hoffnung, die Effizienz der Forschung zu steigern.^[1]
- Nachprüfbarkeit: Anliegen ist hier, die Transparenz der Forschung zu erhöhen, indem jede und jeder die Daten überprüfen kann.

Der folgende Text beschreibt zehn Punkte, die beim Umgang mit Forschungsdaten bedacht werden sollten.

Inhaltsverzeichnis [Verbergen]

- 1 Was erwarten Förderorganisationen?
- 2 Welche Anforderungen haben Journals?
- 3 Wie organisiere ich meine Daten?
- 4 Wie sichere ich meine Daten?
- 5 Soll ich meine Daten veröffentlichen?
- 6 Welche Vorteile hat das Data Sharing?
- 7 Welche Nachteile hat das Data Sharing?
- 8 Wie finde ich ein Repository?
- 9 Welchen Vorteil bieten Data Journals?
- 10 Wo finde ich weitere Informationen?
- 11 Referenzen
- 12 Einzelnachweise

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DANKE FÜR DIE AUFMERKSAMKEIT!

- Kontakt: pampel@gfz-potsdam.de
- re3data.org: <http://re3data.org>
- Wiki: <http://forschungsdaten.org>
- Mailingliste: <http://tinyurl.com/datenliste>
- GFZ / LIS: <http://bib.telegrafenberg.de>