

Repositorien für Forschungsdaten

Infrastrukturen für die digitale Wissenschaft

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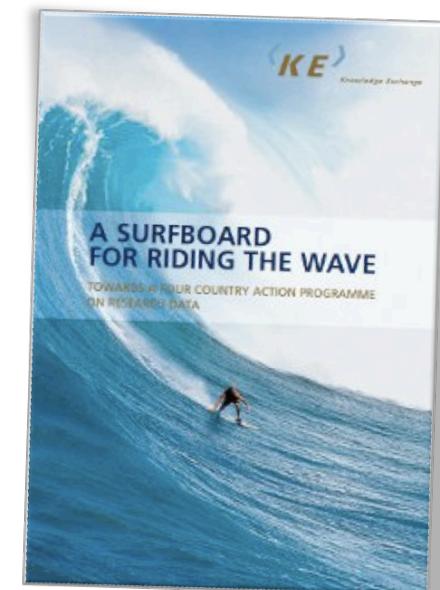
101. Deutscher Bibliothekartag, Hamburg, 24.05.2012

Agenda

- Hintergrund
- Forschungsdaten-Repositorien
- re3data.org
- Vernetzung

Hintergrund

- Forschungsdaten sind wertvoll und einzigartig
- Neue Technologien fördern datenintensive Forschung
- Breite Diskussion über die dauerhafte Zugänglichkeit der Daten
- Trend: „Data Publishing“
- Herausforderungen:
 - Anreize für Wissenschaftler
 - Ausbildung und Training der beteiligten Akteure
 - Aufbau und Vernetzung der Infrastrukturen
 - Finanzierung der Aktivitäten



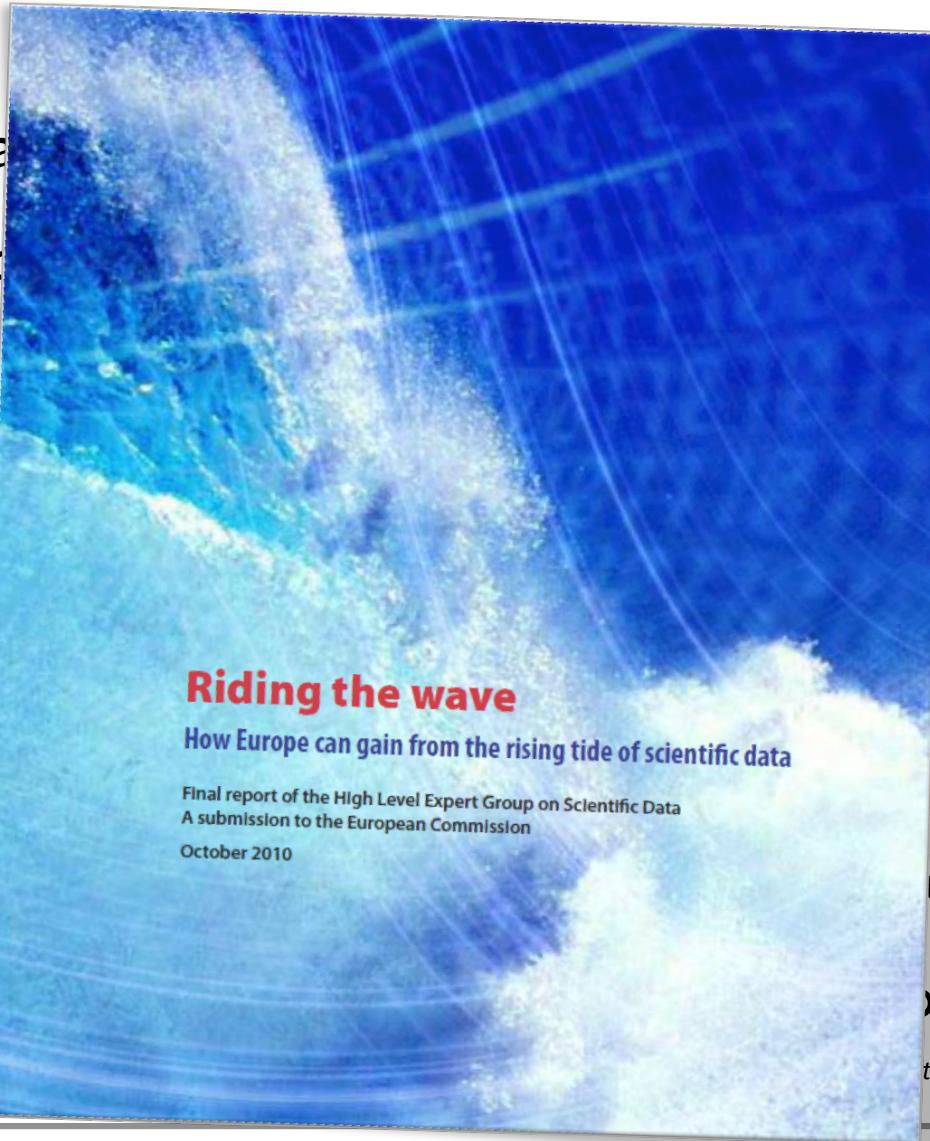
HORIZON 2020

Document	Reference	Proposal
Proposal for a Regulation of the European Parliament and of the Council establishing Horizon 2020 - The Framework Programme for Research and Innovation (2014-2020)	COM(2011) 809 final 2011/0401 (COD)	„Free, open and unrestricted access to interoperable data and information will be encouraged.“
Proposal for a Regulation of the European Parliament and of the Council laying down the rules for the participation and dissemination in 'Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020)	COM(2011) 810 final 2011/0399 (COD)	„With regard to dissemination through research publications, open access shall apply under the terms and conditions laid down in the grant agreement. With regard to dissemination of other results, including research data, the grant agreement may lay down the terms and conditions under which open access to such results must be provided, in particular in ERC frontier research or any other appropriate areas.“

European Commission. (n.d.). *Main references to open access in the European Commission's proposals for Horizon 2020*. Retrieved from http://ec.europa.eu/research/science-society/document_library/pdf_06/open-access-in-horizon-2020_en.pdf

Vision 2030

- „Researchers are able to find, access and evaluate the data they need, confident in the quality and can evaluate their findings.“
- “Producers of scientific data prefer to deposit their data in international scientific data repositories. This is the only way to ensure that the data are available and accessible to the international research community.”



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trusted.“
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d by
orthy.”

ta. Retrieved from <http://cordis.europa.eu/>

High Level Expert Group on Scientific Data
[fp7/ict/e-infrastructure/docs/hlg-sdi-report_en.pdf](http://cordis.europa.eu/fp7/ict/e-infrastructure/docs/hlg-sdi-report_en.pdf)

Vision 2030

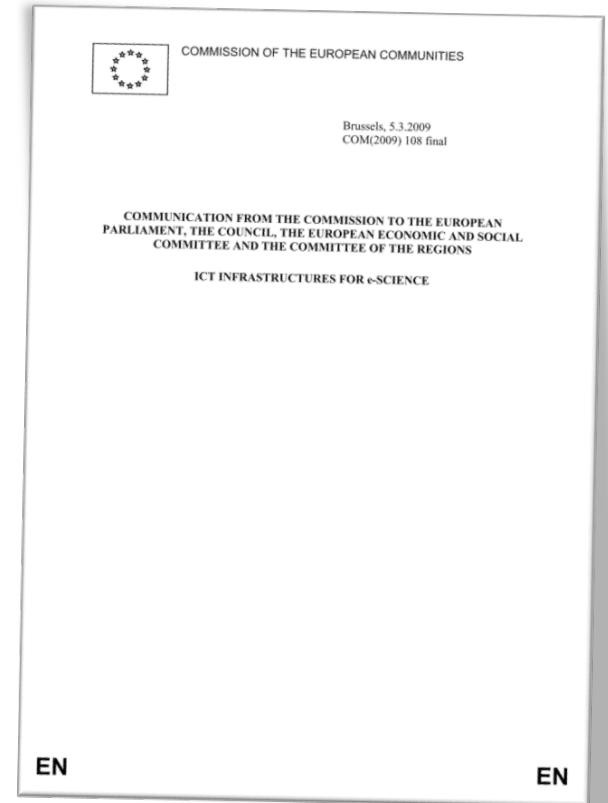
- „Researchers and practitioners from any discipline are able to find, access and process the data they need. They can be confident in their ability to use and understand data, and they can evaluate the degree to which that data can be trusted.“
- “Producers of data benefit from opening it to broad access, and prefer to deposit their data with confidence in reliable repositories. A framework of repositories is guided by international standards, to ensure they are trustworthy.”

High Level Expert Group on Scientific Data. (2010). *Riding the wave. How Europe can gain from the rising tide of scientific data.* Retrieved from <http://cordis.europa.eu/fp7/ict/e-infrastructure/docs/hlg-sdi-report.pdf>

Forschungsdaten-Repositorien

- EC (2009): ICT infrastructures for e-science

„The landscape of data repositories across Europe is fairly heterogeneous, but there is a solid basis to develop a coherent strategy to overcome the fragmentation and enable research communities to better manage, use, share and preserve data.“



European Commission. (2009). ICT infrastructures for e-science. Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions. COM(2009) 108 final. Retrieved from <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=COM:2009:0108:FIN:EN:PDF>

Forschungsdaten-Repositorien

The screenshot shows the NCBI GEO homepage. At the top left is the NCBI logo. To its right is the GEO logo with the text "Gene Expression Omnibus". Below the logo are navigation links: "GEO Publications", "FAQ", "MIAME", "Email GEO", and "Login". A breadcrumb trail "NCBI » GEO" is at the top left. A main text block states: "Gene Expression Omnibus: a public functional genomics data repository supporting submissions. Array- and sequence-based data are accepted. Tools are provided to analyze experiments and curated gene expression profiles. [More information »](#)". On the left, there's a "GEO navigation" sidebar with two main sections: "QUERY" and "BROWSE". The "QUERY" section contains four buttons: "DataSets", "Gene profiles", "GEO accession", and "GEO BLAST", each with a search input field and a "GO" button. The "BROWSE" section contains three buttons: "DataSets", "GEO accessions", and "Platforms", "Samples", "Series".

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

The screenshot shows the PANGAEA homepage. At the top right is the PANGAEA logo with the tagline "Data Publisher for Earth & Environmental Science". Below the logo is a globe graphic with green and red continents and the word "PANGAEA" in the center. A horizontal menu bar includes "All", "Water", "Sediment", "Ice", "Atmosphere", "Help", "Advanced Search", "Preferences", and "more...".

PANGAEA®
Data Publisher for Earth & Environmental Science

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

Forschungsdaten-Repositorien

Scientific Drilling Database
Data from Deep Earth Sampling and Monitoring

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+ Catalogue
+ Authors
+ Dataset
+ Research Programs
+ Sampling Gear
+ Analytical Parameters
+ Publication Process
+ Admin

GFZ icdp

Dataset Description

Citation: Demory, Francois; Nowaczyk, Norbert; Witt, An
Intercorrelation of down-core variations of the high-resolution magnetic susceptibility for COND1-603 and COND1-605. *Scientific Drilling* /GFZ SDDB.1003

[Download Citation \(EndNote\)](#)

Title: Intercorrelation of down-core variations of the high-resolution magnetic susceptibility for COND1-603 and COND1-605

Abstract: Down-core variations of the high-resolution magnetic susceptibility have been obtained for kasten and pilot cores from site COND1-605. The transfer of AMS 14C dating performed on kasten cores to the pilot cores subjected to significant discrepancies in the magnetic susceptibility curve COND1-605 (Vydrovo Shoulder) measured in 2001 and large peaks visible in the first measurement after a 2-year-long storage. This is a first hint for chemically unstable greigite.

[Show in Google Earth](#)

Related Publications:

- N. Fagel, L.Y. Alleman, L. Granina, F. Haas, J. André, Vivianite formation and distribution in the Paleogene of the Western Carpathians, *Planet. Change* 46 (2005), pp. 315-336. doi:10.1016/j.palchange.2005.03.003

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

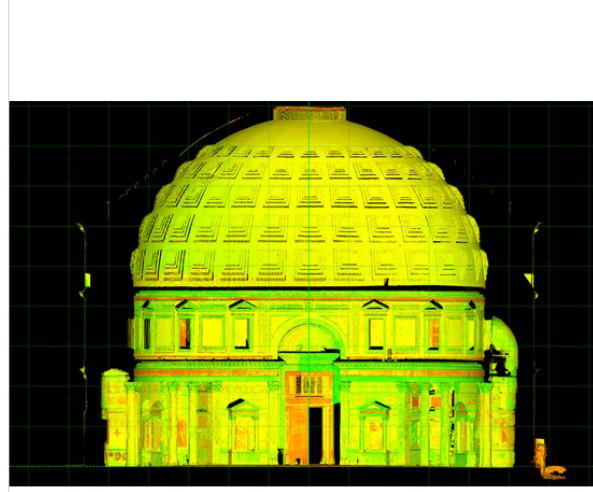
The Bern Digital Pantheon Project: Transverse cross-section, facing north

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:

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@other(BDPP0019,
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keywords = {Medium Visualisation Building Interior},
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editor = {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>

Forschungsdaten-Repositorien

PURDUE UNIVERSITY Research Repository | PURR

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You are here: Publications > Datasets > Phosphorus and Potassium Influence on Alfalfa ... > About

Phosphorus and Potassium Influence on Alfalfa Nutrition

By Jeffrey J Volenec

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

Listed in Datasets

About Supporting Docs Versions Reviews Questions Wish List

Abstract 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.

The University of Edinburgh

University Homepage IS Homepage Research Support Kontakt Einloggen iS

Information Services

DSpace Startseite > Information Services (IS) > Vice Principal's Office > Dokumentanzeige

A survey of undergraduate technology use and attitudes

Download Dataset Zur Langanzeige

Titel: A survey of undergraduate technology use and attitudes
Autor: Macleod, Hamish; Paterson, Jessie
Datum: 2012-05-09
Citation: Macleod, Hamish; Paterson, Jessie. (2012). A survey of undergraduate technology use and attitudes, 2011 [Dataset]. University of Edinburgh.
Permanent Identifier: <http://hdl.handle.net/10283/144>

An award from ELESIG (The Evaluation of Learners' Experience of eLearning Special Interest Group) provided an opportunity to continue the long and successful collection of information about how our students view ICT at the University of Edinburgh. The original work started in the 1990s but lapsed in recent years due to data collection issues. During the second semester in 2010-11, using a paper questionnaire, first and second years across the University were targeted. The findings raised a number of interesting points, for example some students still find IT challenging; although laptop ownership is high, students do not seem to be planning to carry their laptops to the campus; Facebook appears to be used significantly for academic purposes.

Dateien	Description	Größe	Format	Anzeige	Beschreibung
ICTSurvey.csv	Data file in CSV format	46.51Kb	Text	Download	Data file in CSV format
ICTSurvey.sav	Data file in SPSS format	29.83Kb	Unbekannt	Download	Data file in SPSS format
ICTSurvey-codebook.rtf	Codebook in Rich Text Format	1.563Mb	RTF	Download	Codebook in Rich Text Format
ICTSurvey-codebook.spv	Codebook in SPSS format	137.5Kb	Unbekannt	Download	Codebook in SPSS format

DataShare <http://datashare.is.ed.ac.uk/>

Forschungsdaten-Repositorien

The screenshot shows a Figshare research data page for a dataset titled "Herring Hepatic Transcriptome 34300 contigs.fa". The page includes a preview of the FASTA file content, download links, sharing options, citation information, and metadata such as categories, authors, and tags.

Dataset Details:

- Title:** Herring Hepatic Transcriptome 34300 contigs.fa
- Views:** 3677
- Shares:** 7
- Cites:** coming soon
- Published:** on 19 Jan 2012 - 16:37 (GMT)
- Filesize:** 22.40 MB

Categories:

- Molecular biology
- Marine Biology

Authors:

Steven Roberts

Tags:

- contigs
- herring
- fasta
- ngs

Export:

- Export to Ref. Manager

Share this: [Share](#) 0 [Tweet](#) 6 [G+](#) 1

Cite this: Herring Hepatic Transcriptome 34300 contigs.fa. Steven Roberts. Figshare. Retrieved 10:28, May 11, 2012 (GMT) hdl.handle.net/10779/084d34370fbda29bbc67b3c5ecb02575

Preview: **Download:**

```
>ConsensusfromContig1 Average coverage: 2.00
GTGTGTGTGTGTGTCTCTACGCCCTCGTCTTCACTGTACTCGCTGCAGTGCT
CGACGGGGGTGCTCAGGCATCTGGGGTGTGCCCTCTGGGGTTCAGCCCTGGACGAGC
TTGGGGCTGCTGATTGGATGGCTGTGGCCTGGGCTCTTCCTCATTGGTCTGGCCC
TCAGGGCTCCGGCCCTTCCCTGGGCTTGGGCTGGGAGCCTCAGTCTCTGCAGCTGCTGCC
TCTGGCTCAGGCTCGGGCTCCGGCTACTGTTGCCCTCCGCACCTGACGAGGAGGAGGG
AGCAACTGCTGCTGCTGCTTGTGCTGCTGCATCATGTCATGTCATGTCATGTTG
TACACCAGGTTGGCCATTCCGGCATGTTGATGCCCTGGGCTGGGACGAGCGA
TCTCCAATAGGCTGGGTAGTACTCATTAAGTCGATATGTTGACTGCAATAGGGCGGCC
GTGAGC
>ConsensusfromContig2 Average coverage: 1.64
TCGAGGAGCTGACCGGATGGCTCTCGAGAACGAGGACTGGTCGAGACCCCTGCGCTG
CAGCTCGAGATCGGGCAGCAAGCAGGCGCGGGCACGATGACGACGACGGCGGGGGCGCC
AAGGAGGACGGCTACCCGACGGCCAGAGGGCGCTGTTGTGCGGGTGAAGGAGGAGGCC
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CGCTCACCGTGAAGAGGAAGGGACGGAGGAGGAGGAGGAGGAGGAGGAGAG
GAGATGGACGACGTGATGGCGGAGACGAACGACTGCGATGTCG
>ConsensusfromContig3 Average coverage: 3.34
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```

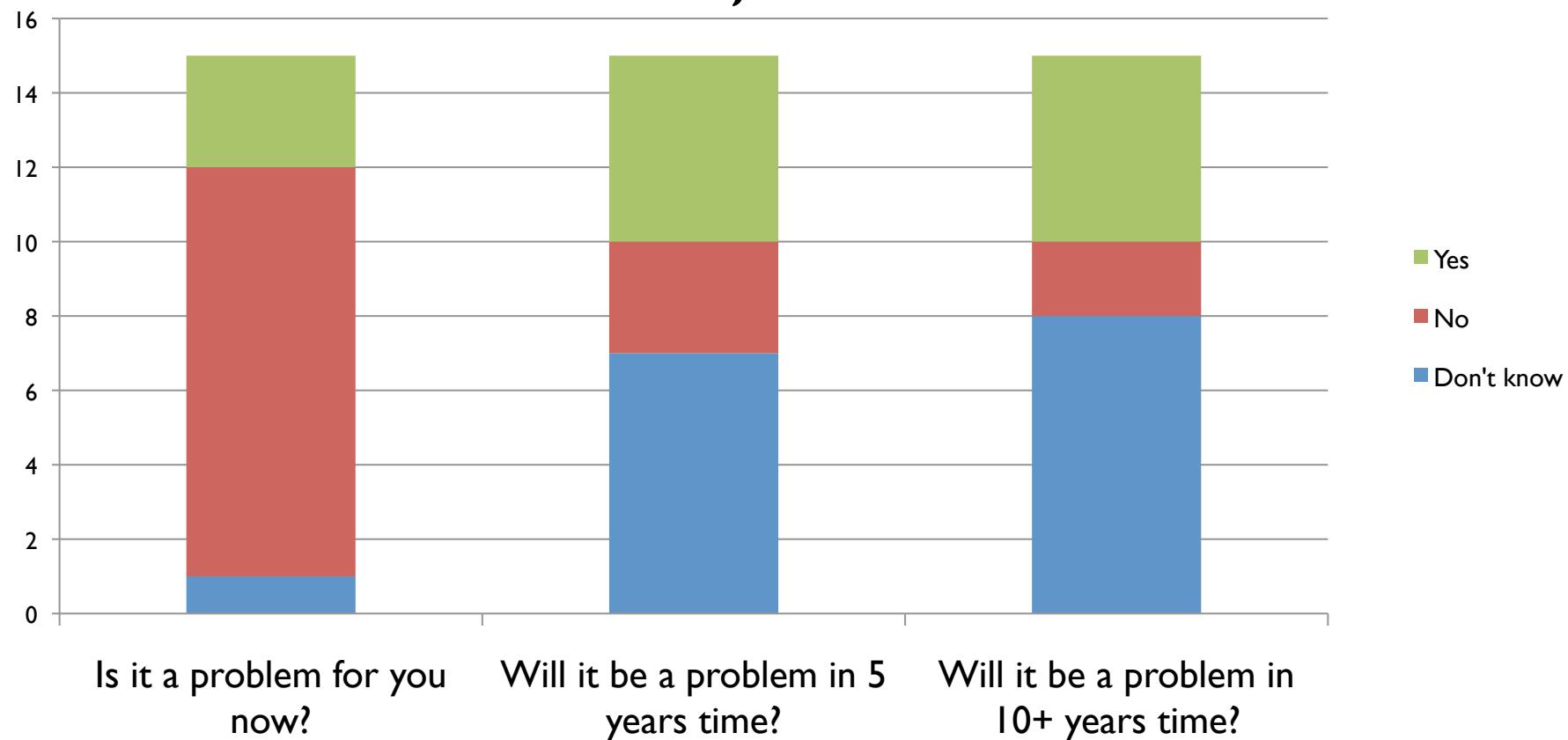
Figshare, <http://figshare.com>

Beispiel: Biomedizin

- 200 Repositorien
- 100 Institutionen
- 350 Personen
- > 10.000 Nutzerinnen und Nutzer
- 60 Millionen Zugriffe per Monat
- 35 Millionen EUR jährliche Kosten

ELIXIR. (n.d.). *The ELIXIR Strategy for Data Resources. Draft Report from Workpackage 2. The ELIXIR Preparatory Phase.*
Retrieved from <http://www.elixir-europe.org/bcms/elixir/Documents/reports/ELIXIR%20Strategy%20for%20Data%20Resources%20report.pdf>

Funding of the repositories - now and in the future, n = 15



<http://aparsen.eu>



re3data.org: Mission

- Aufbau eines “Registry of Research Data Repositories”
- Ziel ist ein weltweites, disziplinübergreifendes, web-basiertes Verzeichnis von Forschungsdaten-Repositorien
- Orientierung für Wissenschaftler, Förderer, Verlage, Infrastruktur
- Vernetzung und Standardisierung von Forschungsdaten-Repositorien
- Förderung der “culture of sharing” und der Sichtbarkeit von Daten

re3data.org: Partner

- Deutsches GeoForschungsZentrum GFZ
- Humboldt-Universität zu Berlin, IBI
- Karlsruher Institut für Technologie (KIT), KIT Library



- Förderung durch die DFG (2012-2014)
- Vernetzung im Rahmen von DINI
- MoU mit DataCite



re3data.org: Status quo

- Aktivitäten in der ersten Projektphase:
 - ✓ Konzeption des Registries
 - ✓ Entwicklung eines Metadaten-Schemas
 - ✓ Formulierung von Auswahlkriterien
 - ✓ Technische Entwicklung des Registries
 - ✓ Vernetzung mit relevanten Initiativen
- Onlinegang für Herbst 2012 geplant

re3data.org: Kriterien

- General Information
- Responsibility
- Policy
- Legal Aspects
- Technical Standards
- Metadata Standards
- Quality Standards
- Services

re3data.org: Team

- Humboldt-Universität zu Berlin, Institut für Bibliotheks- und Informationswissenschaft:
 - Peter Schirmbacher (Leitung), Maxi Kindling, Paul Vierkant
- Helmholtz-Zentrum Potsdam, Deutsches GeoForschungsZentrum GFZ:
 - Roland Bertelmann (Leitung), Jens Klump, Heinz Pampel
- Karlsruher Institut für Technologie (KIT):
 - Frank Scholze (Leitung) Hans-Jürgen Goebelbecker, Jens Gundlach, Stefka Manova

Vernetzung

- AG Elektronisches Publizieren
- AG Virtuelle Forschungsumgebungen
- DINI-Wiki zum Thema im Aufbau
- Förderung der Vernetzung im Rahmen von Projekten
 - DFG: RADIESCHEN, re3data.org ...
 - EU: APARSEN, ODE, EUDAT ...
- Mailingliste: forschungsdaten@listserv.dfn.de



re3data.org

REGISTRY OF RESEARCH DATA REPOSITORIES

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Memorandum of Understanding between DataCite and re3data.org

Posted on [April 13, 2012](#) by [re3data.org team](#)

We are pleased to announce a Memorandum of Understanding between [DataCite](#) and [re3data.org](#). With this Memorandum of Understanding DataCite and re3data.org define their efforts to enhance accessibility and visibility of data sets.

DataCite is an international consortium to facilitate easier access to scientific research data on the internet, increase acceptance of research data as legitimate, citable contributions to the scientific record, and to support data archiving that will allow results to be verified and re-purposed for future study.

PARTNERS



Danke für Ihre Aufmerksamkeit!



re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

info@re3data.org

<http://re3data.org>



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“Creative Commons Attribution 3.0 Germany (CC BY 3.0)“ Licence.



Literatur

- ELIXIR. (n.d.). *The ELIXIR Strategy for Data Resources. Draft Report from Workpackage 2. The ELIXIR Preparatory Phase.* Retrieved from [http://www.elixir-europe.org/bcms/elixir/Documents/reports/ELIXIR Strategy for Data Resources report.pdf](http://www.elixir-europe.org/bcms/elixir/Documents/reports/ELIXIR%20Strategy%20for%20Data%20Resources%20report.pdf)
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- European Commission. (n.d.). *Main references to open access in the European Commission's proposals for Horizon 2020.* Retrieved from http://ec.europa.eu/research/science-society/document_library/pdf_06/open-access-in-horizon-2020_en.pdf
- High Level Expert Group on Scientific Data. (2010). *Riding the wave. How Europe can gain from the rising tide of scientific data.* Retrieved from <http://cordis.europa.eu/fp7/ict/e-infrastructure/docs/hlg-sdi-report.pdf>
- Van der Graaf, M., & Waaijers, L. (2011). *A Surfboard for Riding the Wave. Towards a four country action programme on research data.* Retrieved from http://www.knowledge-exchange.info/Admin/Public/DWSDownload.aspx?File=/Files/Filer/downloads/Primary+Research+Data/Surfboard+for+Riding+the+Wave/KE_Surfboard_Riding_the_Wave_Screen.pdf