



Research data Repositories

Overview of the properties, functions, and types of repositories

Maurice.Schleussinger@uni-duesseldorf.de thomas.vonrekowski@uni-siegen.de

FoDaKo - Forschungsdatenmanagement in Kooperation





What are repositories?

DEFINITION: A repository (pl. repositories), is:

- ... a managed directory for storing and describing digital objects for a digital archive.
- ... a document server with an online interface that allows data creators to upload their data to the repository.

What are repositories?

- Repositories (usually) provide free access to the data stored on their document servers
- Mostly public (open access) or at least accessible to a limited group of users

What can a repository do for me?

- Store my research data
 - Versioning
- Make my research accessible
 - Search functions
 - Metadata
 - Persistent Identifier (DOI, ORCID)
 - Download
- Import and export from/to other systems



The Research Data Repositories Landscape













scientists













Online storage and backup services – advantages

Accessibility

Sharing and Collaboration

Cost

Backup and Recovery

Automation

Space

Online storage and backup services – disadvantages

Sensitive or confidential information

Data access speed

Dependence on service providers

Copyright & Co.

To which repository would you upload your research data?

Disciplinary

Institutional

Project-specific

Multidisciplinary

Types of Repositories

communityspecific

institutional

multidisciplinary



PANGAEA.

Data Publisher for Earth & Environmental Science

















https://researchdata.hhu.de





Checklist: is it the right repository for your data?

The checklist that follows addresses the five key questions for selecting a repository:

- 1. Is the repository reputable?
- 2. Will it take the data you want to deposit?
- 3. Will it be safe in legal terms?
- 4. Will the repository sustain the data value?
- 5. Will it support analysis and track data usage?

cf.: http://www.dcc.ac.uk/resources/how-guides-checklists/where-keep-research-data/where-keep-research-data#5



Data Policies of Funding Organizations (DFG, 2010)

"If [..] systematically (measurement) data are collected that are suitable for subsequent use, please describe which measures have been taken or are taken during the project's duration in order to secure the data sustainably and, if necessary, the reuse. When doing so, please also take into account the existing standards in your discipline and the offers of existing data repositories."

Deutsche Forschungsgemeinschaft. (2012). Leitfaden für die Antragstellung. DFG-Vordruck 54.01 - 1/12. Retrieved from http://www.dfg.de/formulare/54_01/54_01_de.pdf

Deutsche Forschungsgemeinschaft. (2012). Merkblatt Sonderforschungsbereiche. DFG-Vordruck 50.06 – 6/12. Retrieved from http://www.dfg.de/formulare/50 06/50 06 de.pdf





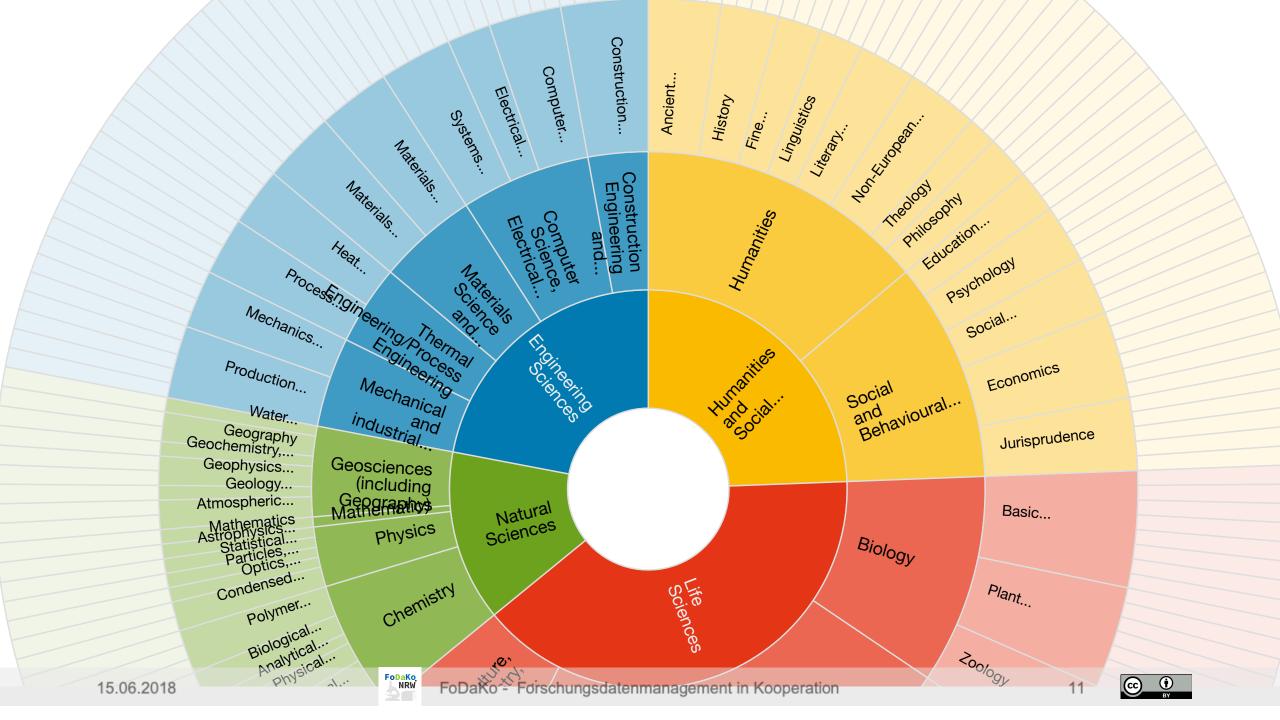
Re3data.org

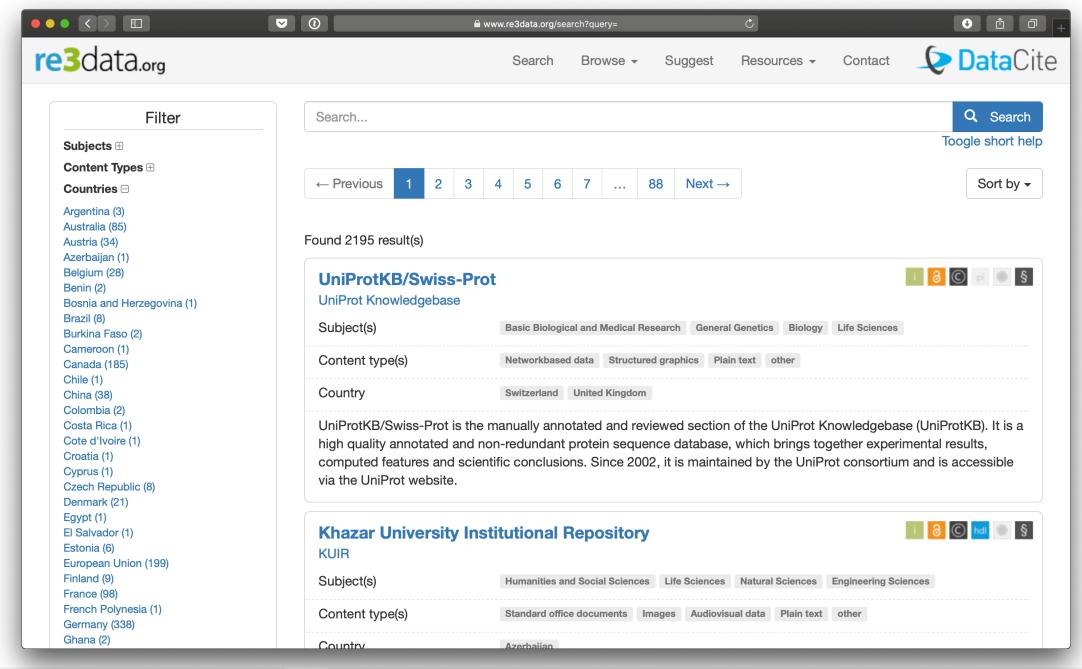


Project partners:

- German Research Center for Geosciences GFZ
- Library and Information Services (LIS)
- Humboldt University Berlin, Institute for Library and Information Science (IBI)
- Institute of Technology (KIT), KIT Library











The research data repository provides additional information on its service.

The research data repository was reviewed by the re3data.org Team.

GENERAL INFORMATION

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



QUALITY STANDARDS

RESEARCH DATA REPOSITORY

POLICY



The research data repository provides a policy.

TECHNICAL STANDARDS

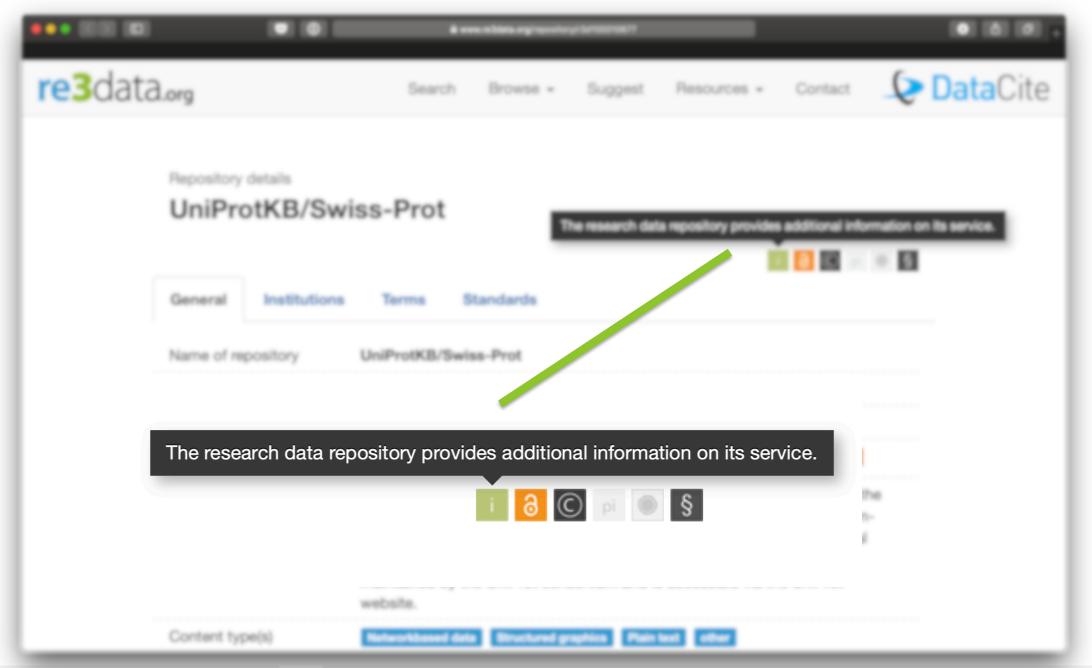
LEGAL ASPECTS The research data repository provides open/restricted/closed access to its data.

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

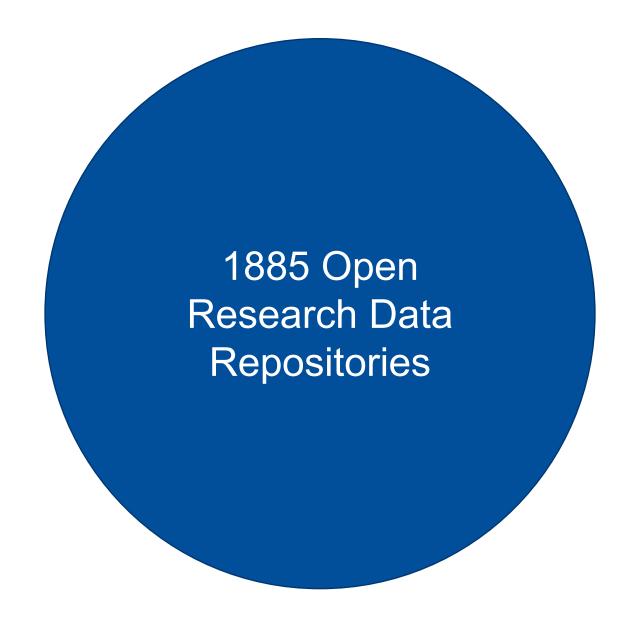


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The terms of use and licenses of the data are provided by the research data repository.



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Outlook

- the demand for a research data infrastructure is increasing
- (Networked) research data repositories form the core of this infrastructure
- The existing landscape of data repositories is very heterogeneous and characterized by disciplinary approaches

References

- https://www.forschungsdaten.info/themen/bewahren-undnachnutzen/repositorien/. retrieved 04.06.2018
- https://de.wikipedia.org/wiki/Repository
- accessed 06.06.2018 (translated)
- http://www.forschungsdaten.org/index.php/Repositorium retrieved 01.10.2018
- https://de.wikipedia.org/wiki/Repository retrieved 04.06.2018





Thank you for your attention!

If you have questions pertaining to FDM, you can contact the FoDaKo team at:

fodako@uni-duesseldorf.de

rathmann@uni-wuppertal.de thomas.vonrekowski@uni-siegen.de maurice.schleussinger@uni-duesseldorf.de



