EOSC Symposium 2022

Talk 3: Engaging data repositories in EOSC

Session: Engagement of research communities and service providers in EOSC

Tuesday, November 15, 16:00 - 17:30

Speaker: Nina Leonie Weisweiler
re3data: Connected via EOSC Marketplace

re3data - registry of research data repositories

re3data

Find research data repositories and their metadata on a global scale.

Organisation: Karlsruhe Institute of Technology
Provided by: KIT - Library

(0.0 / 5) 0 reviews

Access the resource

FULLY OPEN ACCESS

re3data is a global registry of research data repositories that covers research data repositories from different academic disciplines. It includes repositories that enable permanent storage of and access to data sets to researchers, funding bodies, publishers, and scholarly institutions. re3data promotes a culture of sharing, increased access and better visibility of research data.
EU Projects with re3data participation supporting the EOSC

2019-2022:
Tools for finding and selecting FAIR enabling repositories to researchers and other stakeholders
Integration of repository information into DataCite Commons
- re3data as metadata source
- linking with other entities of the PID graph
- providing additional insights

Launched in Summer 2022:
Practical implementation of the FAIR principles across all domains through FAIR-enabling practices, tools and services.
More at: https://fair-impact.eu/
Networks and integrations

re3data is a central reference point and metadata source for other service providers on the European and international level:

OpenAIRE’s Open Science Observatory
European Open Science Monitor
F-UJI Automated FAIR Data Assessment Tool
DARIAH-EU Data Deposit Recommendation Service
DataCite Commons

and many others…
Collaboration with EUDAT service B2FIND

re3data collaborates with the B2FIND team with the goal of harmonizing their subject classifications.

See also:
https://coref.project.re3data.org/blog/reviewing-the-subject-classification-in-re3data
Global Registry of Research Data Repositories

... presents repositories for the permanent storage and access of research data sets to researchers, funding bodies, publishers and scholarly institutions.

re3data.org

promotes a culture of sharing, increased access and better visibility of research data

across all research disciplines
Number of repositories indexed in re3data per year:

November 2022: Almost 3000 entries
Celebrating 10 Years of re3data

Current Projects:

- 2011: Start of the first DFG-funded project
- 2012: re3data website goes live
- 2013: Merge with DataBib
- 2014: Over 1000 indexed repositories
- 2015: re3data becomes a DataCite Partner Service
- 2016: Continuation of re3data beyond the DFG-funded project phase
- 2017: Over 2000 repositories indexed
- 2019: Start of the FAIRsFAIR project
- 2020: Start of the re3data COREF project (DataCite, Helmholtz Open Science Office, Humboldt-Universität zu Berlin, Karlsruhe Institute of Technology)
- 2021: Metadata Schema Version 3.1 & Conceptual Model for User Stories published (re3data COREF)
- 2022: re3data integration in DataCite Commons; Start of the FAIR-IMPACT project

Partners:
What is a “repository” in re3data?

We refer to all re3data entries as “repositories”.

- Repositories in re3data are defined as “[…] a subtype of a sustainable information infrastructure providing long-term storage of and access to research data.” (Metadata Schema for the Description of Research Data Repositories, Version 3.1)

The re3data registration policy is intentionally inclusive to cover a broad range of infrastructures for research data.
re3data Metadata Schema

42 Properties on…

- General information
- Responsibilities
- Policies
- Legal aspects
- Technical standards
- Quality standards
- DOI for repository descriptions
- Since 2020: ROR IDs for institutions

Version 3.1 of the Metadata Schema:
https://www.re3data.org/schema

Input: Keeping records up-to-date

Automated updates (e.g. CoreTrustSeal)
Reviews by the editorial team
Change requests:
There are many conceivable use cases for re3data metadata. In this GitHub repository, we provide examples for using the re3data API that can be adapted to fit other use cases.

The example use cases are implemented in R and Python using Jupyter Notebooks.

See also:
https://coref.project.re3data.org/blog/using_the_re3data_api
Develop & enhance re3data: Current project

Conceptual Service Model
Embed the registry within the research community and infrastructure landscape to meet the emerging needs for a trusted repository reference.

Metadata Schema
Revision and enhancement of the re3data metadata schema for the description of research data repositories.

Technical Infrastructure
Implement new features and the updated metadata schema.
Provide the necessary technical infrastructure and services.

Quality & Transparency
Conduct a comprehensive study on quality assurances at research data repositories to improve re3data metadata information.
Improve re3data metadata quality, trust and transparency.

Community Building
Extensive outreach activities, networking and policy development.
Community engagement in re3data COREF

Conceptual Service Model
Stakeholder survey & workshop series: Read more

Metadata Schema
Public RFC process: Read more

Technical Infrastructure
Improvements & development in consultation with the community
API use cases examples: Read more

Quality & Transparency
Survey on quality management at research data repositories & related workshop in collaboration with CoreTrustSeal: Check the project blog for updates!

Community Building
Extensive outreach activities: Blog, social media, mailings, events & workshops…
New study finds that the share of researchers who store data in research data repositories is still low…

re3data is here to support change!

See tomorrow’s Session “European Research Data Landscape (2021-2022)”
Wednesday, Nov 14, 14:30 - 16:00 CET

Join in!

Become a part of the EOSC network by registering your repository in re3data:
https://www.re3data.org/suggest
Stay in touch!
Web: [www.re3data.org](http://www.re3data.org)
Mail: [info@re3data.org](mailto:info@re3data.org)
Twitter: [@re3data](https://twitter.com/re3data)