

MAKING DATA MANAGEMENT FEEL EASY

Integration of a Hyrax Data Repository into the Research Process

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The Research Data Management System (RDM-System) is the research data repository of the Ruhr-University Bochum. It is a user-driven development that enables researchers to easily integrate data management into their research workflow from the beginning. The system is a self-service tool for researchers to store, describe, share, archive (bit-stream) and publish their data. It supports FAIR data principles and promotes the implementation of RDM and open science policy requirements.









FOR THE ENTIRE **RESEARCH WORKFLOW**

The repository can be integrated into the overall research workflow:

Finding data

- **Collaboratively editing data**
- **Assigning rights**
- **Describing data with** </> metadata
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 - Linking data
- **Publishing data**
- **Referencing and sharing data** \propto° persistently
- Storing data for long term



GENERIC SERVICE VS. DISCIPLINE-SPECIFIC DEVELOPMENT

Further development of the repository to meet subject-specific requirements.



Mapping of research-specific data models



Integration of subject-specific metadata schema



Individual roles and right management

USING THE REPOSITORY

- All researchers at RUB, collaboration partners, CRCs, Clusters, etc.
- Access via Shibboleth (DFN-AAI), ORCID
- Iow barrier adoption for the researchers in the lab where data is being generated
- early data sharing and reuse with collaborating research groups

FUTURE PLANS

TECHNICAL DETAILS

Software

Open source



Infrastructure & Interfaces

- Common APIs, OAI
- Interfaces with native S3 compliant storage
- Bulk ingest
- import of complex folder structures





Connection of complex measurement systems Provide training and self-learning materials

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- Implementation of interdisciplinary use cases
- Constant improvement with researchers participating

Storage

Geo-distributed object storage

Metadata

Standard metadata schema (DataCite)

WEBSITE

RDMS

RESEARCH

DATA SERVICES

Adaption of new schemas

VNIVERSITÄTSBIBLIOTHEK BOCHUM **IT**SERVICES

