





- Supporting our scientists and research experiment with tools:
 - electronic lab books,
 - interactive analysis,
 - publication repositories for data and software,
 - scientific workflow management,
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- Providing support in connecting experiments, detectors and diagnostics to our infrastructure.
- Establishment of analysis workflows and HPC applications.

















Open Data Ecosystem







Open Data Ecosystem



Scientific Computing Department at HZDR – 2017

Establishment of the Scientific Computing division within the IT as a bridge to the science





Data Policy – 2018

Legal framework for the institutional data management at HZDR.





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Data Management and HPC Group — since 2019

Analysis of data/service landscape at HZDR and development of an uniform data lifecycle.



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HZDR Metadata Catalogue – 2024

Metadata catalogue for additional experiment-specific metadata as extension of RODARE.



















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HZDR RDM Strategy – 2025

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Identification of the need to develop a data management strategy together with our scientists.

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The Consequence of Open Science and FAIR: Institutional Data Policies

- The HZDR has a data policy since May 2018.
- Reasons for the development:
 - Establishment and legitimisation of publication, handling and • deletion of data generated or taken at the HZDR,
 - Legal framework for data management and... •







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... to further develop data management services together with our scientists!







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			HZDR Data Policy	Date:	01.0
	JR	HZD	R-Regulation No. B 220	Rev.: Page:	1
		Terms	and Conditions for the	9	
	St	orage, Acces	s and Curation of Rese	arch Data	
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- ► ELBE Beamlines
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— In our data publication system the datasets are described via **DataCite** metadata to be FAIR.







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The RODARE Statistics and Worldwide Accesses



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concept



Additional Metadata Through Communities

— Experiment-specific metadata is difficult because the RODARE metadata is the same for every entry.





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Additional Metadata Through Communities

- Experiment-specific metadata is difficult because the RODARE metadata is _____ the same for every entry.
- We integrated the facility information throughout Communities for our large-_____ scale facilities:
 - **18** facilities from different research areas...



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— Our IT infrastructures can support various experiments, but they are complex...





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- Our IT infrastructures can support various experiments, but they are complex...
- Scientists often don't know which services are available and how to use them.



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- Our IT infrastructures can support various experiments, but they are complex...
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- Offers to our scientists to guide them through the services:
 - IT-Service catalogue: hzdr.de/fdm-services
 - HELIPORT: heliport.hzdr.de



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The Research Data Management Landscape at HZDR — Our IT infrastructures can support Knowledge Graph various experiments, but they are complex... Scientists often don't know which services are available and how to use them. HELIPORT HELmholtz Scientific Project W ORkflow PlaTform Project-Level Metadata Digital Object/Project Graph Workflow Dashboard Data Sources — Offers to our scientists to guide Proposal /lanagemer Lab Documentation **Publication** ime Series Dat HZDR PID orkflow Engine Facility landle.net (GATE) ROBIS Grafana) them through the services: E-Labbook Frontend SciCat (Plugin) **Device** or ersion Contr Detector Data Managemen Data E-Logbook Backend (GitLab) • IT-Service catalogue: (Experiment Plan (RDMO) Transport (uFTP) (Database & API \bigcirc hzdr.de/fdm-services Data Source (Analyzer, Experiment, Compute Archiving • HELIPORT: heliport.hzdr.de Interfaces to our Infrastructure Resources Object, Parameter, Metadata Compute Resources Docker/VM **Time Series** Infrastructure Database Container/Image Database Data Storage













CURRENT STATE

DataCite metadata with only a few domain/experiment-specific fields (e.g. facility) in our data repository RODARE









CURRENT STATE

DataCite metadata with only a few domain/experiment-specific fields (e.g. facility) in our data repository RODARE



DESIRED STATE

Additional community-specific metadata to search for and reference to the datasets (in RODARE, our archive or filesystem)





Some approach to provide additional searchable experimentand discipline-specific metadata



CURRENT STATE

DataCite metadata with only a few domain/experiment-specific fields (e.g. facility) in our data repository RODARE

GAP



DESIRED STATE

Additional community-specific metadata to search for and reference to the datasets (in RODARE, our archive or filesystem)







CURRENT STATE

DataCite metadata with only a few domain/experiment-specific fields (e.g. facility) in our data repository RODARE

Integrate SciCat in between RODARE and the experiment, transfer of experiment-specific metadata using automated pipelines and link the final data in RODARE, archive or filesystem

 \rightarrow



PLAN

DESIRED STATE

Additional community-specific metadata to search for and reference to the datasets (in RODARE, our archive or filesystem)





Data Repository RODARE for citable **data/software publications** with **DOIs** _____



Data publication system RODARE rodare.hzdr.de







- Data Repository RODARE for citable **data/software publications** with **DOIs**
- **SciCat** for public findable metadata describing data and it's different locations _____ with "HZDR Handles" as **PID**:
 - RODARE, if the data is published and used in scientific publications ٠
 - Anywhere on our internal filesystems or cloud storage
 - In our internal archive for long-term storage •





Data publication system RODARE rodare.hzdr.de

SciCat metadata catalogue scicat.hzdr.de





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SciCat metadata catalogue scicat.hzdr.de

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Data publication system RODARE rodare.hzdr.de

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Curated Metadata Sources

ExperimentLogging app (ExL)

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Curated Metadata Sources

ExperimentLogging app (ExL)

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E-Logbook

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Main page	ů		Log Name 22 DAO CdAs 120degs WP 45degs SHG V po
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Curated Metadata Sources

ExperimentLogging app (ExL)

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CeramicCam OFF ~	Refl 1w OFF v	TPS 15 OFF V	Ge X spect OFF ~
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E-Logbook

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Metadata from Experiment/Simulation





Curated Metadata Sources

ExperimentLogging app (ExL)

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Curated Metadata Sources

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Curated Metadata Sources

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Curated Metadata Sources

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Dataset





Why a HZDR Data Management Strategy is necessary



— We have a complex ecosystem of tools and services at the HZDR, within HiFiS and beyond: NFDI and EOSC.







- _____
- is necessary.

We have a complex ecosystem of tools and services at the HZDR, within HiFiS and beyond: NFDI and EOSC.

— A clear and transparent roadmap for our developments in coordination with our interred and external stakeholders







- We have a complex ecosystem of tools and services at the HZDR, within HiFiS and beyond: NFDI and EOSC. _____
- A clear and transparent roadmap for our developments in coordination with our interred and external stakeholders _____ is necessary.
- The HZDR scientists, large-scale instruments and experiments must always be at the top of the agenda.









- We have a complex ecosystem of tools and services at the HZDR, within HiFiS and beyond: NFDI and EOSC.
- A clear and transparent roadmap for our developments in coordination with our interred and external stakeholders _____ is necessary.
- The HZDR scientists, large-scale instruments and experiments must always be at the top of the agenda.



→ We want to work with you to develop a clear and transparent roadmap to define priorities, allocate resources and obtain appropriate funding.





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DZR Data Management Strategy ist in fünf Handlungsfelder gegliedert ["]. Um trategische Vorgehensweise zu entwickeln welche nachhaltig in den nschaftlichen Instituten verankert wird ist es notwendig im Handlungsfeld (I) die derungen an das Datenmanagement von Seiten der Wissenschaft und die ttung von Großforschungsanlagen, sowie externen zu erfassen, entsprechend luieren und in die Gesamtstrategie zu überführen. Die in (I) erfassten derungen in der Strategie werden schrittweise in (II) Dienste oder Systeme, bzw. nicht-technische Dienste überführt.



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- A document that describes the HZDR data management,
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### HZDR Data Management Strategy

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Software is a central component of academic research and the scientific infrastructure and is devel-oped and used in all HZDR institutes. In this regulation, software refers to all forms of program code (e.g. source code together with associated documentation) and executable programs generated from it, which are developed, made available and passed on within the scope of activities at the HZDR. The development of software is an integral part of modern publication contexts consisting of written publica-tions, data sets and software.

The policy covers the software life cycle, from software development and documentation to the transfer and m of the software. The regulation is intended to support the establishment of modern software engineering methods at the HZDR, which enable high standards in software de-velopment, software quality and management. This profe will achieve greater sustain-ability and promote good scientific practice in terms of the verifiability and reproducibility of research results.

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HDZR Data Management Strategy ist in fünf Handlungsfelder gegliedert ^{ab}¹. Um e strategische Vorgehensweise zu entwickeln welche nachhaltig in den senschaftlichen Instituten verankert wird ist es notwendig im Handlungsfeld (I) die forderungen an das Datenmanagement von Seiten der Wissenschaft und die bettung von Großforschungsanlagen, sowie externen zu erfassen, entsprechend evaluieren und in die Gesamtstrategie zu überführen. Die in (I) erfassten forderungen in der Strategie werden schrittweise in (II) Dienste oder Systeme, bzw. (III) nicht-technische Dienste überführt.



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### HZDR Data Management Strategy

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## Conclusions

### — With the workshops today and tomorrow we want to initially discuss the requirements of our scientists and experiments.





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With the workshops today and tomorrow we want to initially discuss the requirements of our scientists and experiments.
We want to finalise a first draft by the end of the year.





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## Conclusions

— With the workshops today and tomorrow we want to initially discuss the requirements of our scientists and experiments. — We want to finalise a first draft by the end of the year. — Together with our scientists and stakeholders, we will iteratively transform the draft into a comprehensive document.





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