

Introduction to Helmholtz Metadata Collaboration (HMC)

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www.helmholtz-metadata.de

HELMHOLTZ RESEARCH FOR GRAND CHALLENGES



- Make Helmholtz data treasures visible.
- Support researchers in (automatically) describing their data by means of a suitable, standard-compliant description with metadata.
- Allow researchers to reuse Helmholtz research data for advanced methods of data processing and analysis.



- Make Helmholtz' Data FAIR findable, accessible, interoperable and reusable
- Provide comprehensive & sustainable services, consulting, information & tools for efficient metadata handling as a distributed & shared facility.
- Jointly develop, share & consolidate communityexpertise for metadata of the six Helmholtz research areas.

Turning FAIR into reality* on all levels to enable data reuse

This makes HMC a research infrastructure platform!

^{*} From: Turning FAIR into Reality, Final Report and Action Plan from the European Commission Expert Group on FAIR Data, doi: 10.2777/1524





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HMC Structure



1. Metadata Hubs

Community expertise, training, technologies

2. FAIR Data Commons

Technical services and FAIRification

3. HMC Office

Management and controlling

4. HMC Projects

Community and use cases





Major current issues

- 1. Conduct research field specific surveys and mapping of expertise, standards, tools, workflows
- 2. Implement a training and consulting programme and infrastructure to provide metadata knowledge
- Launch first technical implementations and pilot studies to make Helmholtz' Data FAIR
- Realise project calls to integrate community solutions into HMC services and infrastructures



https://www.helmholtz.de/fileadmin/user_upload/HIDA/2_HMC-Proposal-April2019.pdf

Current focus of cross-cutting-topics across hubs



METADATA COLLABORATIO

Turning FAIR into Reality: First Metadata Tools and Recommendation



- Establish a FAIR Digital Object (FDO) abstraction layer between data and tools
- Development and launch of first community usable tools, e.g.
 - Metadata Standards Catalog: Helmholtz-tailored registration of existing metadata standards
 - Metastore: Metadata schema registry and metadata repository
- FAIR Recommendations for the Helmholtz Association (and beyond)





Communication: HMC Network

- Highly distributed structure -> gradual development from a stable internal structure and perspective to an open network in HGF and beyond
- Networking on all levels -----**F/IR** CODATA DATA TOGETHER RDA <HMC> nfdi HELMHOLTZ **EUROPEAN OPEN** INKUBATOR SCIENCE CLOUD HELMHOLTZ **Open Science** internal national networking international communities organisation



HMC Participation in NFDI Consortia





Role of the projects in HMC



HMC projects ..

- are an important instrument to connect HMC and community experts
- can help to identify community demands
- work on practical challenges in the field of metadata
- should work in close cooperation with the HMC hubs
- results should be integrate into HMC and HGF Community in the long term
- will be integrated into HMC activities as collaboration partners

HMC offers ..

- Integration of project results into HMC
- Knowledge exchange with HMC Family
- Participation in HMC organized trainings, seminar etc.
- Workshop participation for exchange with HMC community, HMC projects etc
- Usage of HMC Infrastructure and Services
- ... to become part of the HMC Family!

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Questions ?

Please attribute the Helmholtz Metadata Collaboration with a link to <u>https://helmholtz-metadata.de</u>



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Questions?

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