

Leveraging FAIR Data practices through the HMC Information Portal

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Since its establishment the Helmholtz Metadata Collaboration (HMC) has compiled a multitude of information on the state of the research data communities and practices within the Helmholtz Association and beyond.

The Information Portal is a web application for capturing FAIR data practices across all Helmholtz domains, offering a unified user interface for collecting and exploring results.

The development was initiated to structure this data, provide accessible information for multi-level decision-making, and create a curated knowledge base for research data managers, scientists, and other stakeholders. It thereby provides a map of the Helmholtz data landscape across all Helmholtz research domains.

Developed through a top-down approach, 18 categories, and associated metadata schemas were defined and aligned throughout the association. Collected data is curated based on these cross-domain aligned metadata schemas these cross-domain aligned metadata schemas.

Built using state-of-the-art technologies, including Python, JavaScript, and Docker, the Information Portal leverages GitLab as a database. Git-based systems offer advantages, such as raw data accessibility, flexible data curation, easy synchronization, and customizable repositories. The Information Portal offers public read-only access for stakeholders and a personal instance for data curation purposes. Both versions are synchronized via GitLab.

The single-page web application is user-friendly and developed in multiple iterations for an intuitive and flexible interface. The Information Portal is important for creating a sustainable, distributed, semantically enriched Helmholtz data space, promoting seamless data sharing and reuse.

Please assign your contribution to one of the following topics

Resource in the FAIR data landscape

Please specify "other" (stakeholder)

Please assign yourself (presenting author) to one of the stakeholders.

Expert panels, strategists and administrative stakeholders

In addition please add keywords.

Helmholtz Metadata Collaboration, Information Portal, FAIR, Metadata

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