

1st release of the Helmholtz Knowledge Graph: meet and greet the developers

Wednesday 11 October 2023 14:00 (3 minutes)

Research across the Helmholtz Association is based on inter- and multidisciplinary collaborations across its 18 Centres and beyond. However, the (meta)data generated through Helmholtz research and operations is typically siloed within institutional infrastructures and often within individual teams. The result is that the wealth of the association's (meta)data is stored in a scattered manner, hard to find and consequently cannot be used to its full value to scientists, managers, strategists, and policy makers.

To address this challenge, the Helmholtz Metadata Collaboration (HMC) launched the unified Helmholtz Information and Data Exchange (unHIDE) in 2022. We are creating a lightweight and sustainable interoperability layer to interlink data infrastructures; and increase visibility and access to the Helmholtz Association's (meta)data and information assets. Using proven and globally adopted knowledge graph technology, within unHIDE we develop a comprehensive association-wide knowledge graph (KG) the Helmholtz-KG: a solution to connect (meta)data, information, and knowledge.

A first prototype of the Helmholtz KG was released in April 2023. This includes a comprehensive web front end for manual search of resources [1], a stable and documented [2] backend with a tested data ingestion and integration pipeline, and machine accessible endpoints [3].

[1] <https://search.unhide.helmholtz-metadaten.de/>

[2] <https://docs.unhide.helmholtz-metadaten.de/>

[3] <https://sparql.unhide.helmholtz-metadaten.de/>

Presenter: BRÖDER, Jens (Forschungszentrum Jülich GmbH (IAS-9))

Session Classification: HMC Hands-on Session