

HIFIS: Digital Services for Helmholtz & Partners

With HIFIS and the four other platforms (HIDA, HIP, HMC and Helmholtz AI), initiated by the Helmholtz Incubator Information & Data Science, the Helmholtz Association is pursuing the goal of bringing together the enormous data treasure and the diverse, decentralised expertise of the 18 research centres.

HIFIS supports scientific projects with IT resources, services, consulting and expertise from the collection, storage, linking and analysis of research data to the publication of the results. Particular focus is also placed on the topic of research software development.



HIFIS supports Helmholtz Cloud offerings.

Formerly isolated applications converge to central collaboration services for science as well as infrastructure, offered in the **Helmholtz Cloud**. Currently, the Helmholtz Cloud portfolio includes 20 services. The complete list and all further information can be found at the [Helmholtz Cloud Portal](#). A selection:

- **HIFIS Events** – Managing events for everyone
- **Mattermost** – Web based chat service
- **Notes** – Collaborative writing and sharing of Markdown documents
- **Jupyter** – Interactive computing via Jupyter Notebooks
- **Helmholtz Codebase** – Collaborative software development platform with extensive Continuous Integration (CI) offering

The Helmholtz-wide, internationally accessible authentication and authorization infrastructure (**Helmholtz AAI**) enables login to all services with the known credentials of the home Helmholtz centres. With single sign-on (SSO), it will be possible to combine several services into meta-services in the future. In this central login, the Helmholtz AAI, 6500 registrations were recorded as of January 2022, trend rising.

HIFIS sustainably protects sensitive data by storing and processing it in Helmholtz-owned data centres. The data thus remains within the German research landscape and is available to future generations of researchers without restriction. At the same time, users save time in both searching and the storing of data.

HIFIS and Research Software Development (RSE)

Today, there is hardly a scientific project that can be done without the support of scientific software. Be it software packages developed in-house or third-party applications which are used for the acquisition of scientific knowledge: The quality, traceability, and reproducibility of research depend to a large extent on those software packages. HIFIS therefore supports research software development with a wide range of services.



HIFIS Education & Training is aimed at employees who are looking for further trainings in the field of research software development. Both entry-level and advanced courses are available. In 2021, 668 participants were trained in 36 different events. Special courses can also be requested. Are you interested in e-learning? — All course offerings are available [here](#).

HIFIS Consulting is an individual and free offer for all researchers of the Helmholtz Association. We will help you with a broad range of topics around research software engineering, open source, licensing or questions about the implementation of new or existing software projects. Answer a few questions about the project and the issue and the HIFIS Consulting team will get back to you promptly. Further information can be found [here](#).

Use HIFIS offers for your daily work, for projects in the Helmholtz Association and beyond.

**Helmholtz Digital Services for Science —
Collaboration made easy.**