HELMHOLTZ

RESEARCH FOR
GRAND CHALLENGES

HIFIS | HELMHOLTZ FEDERATED IT SERVICES

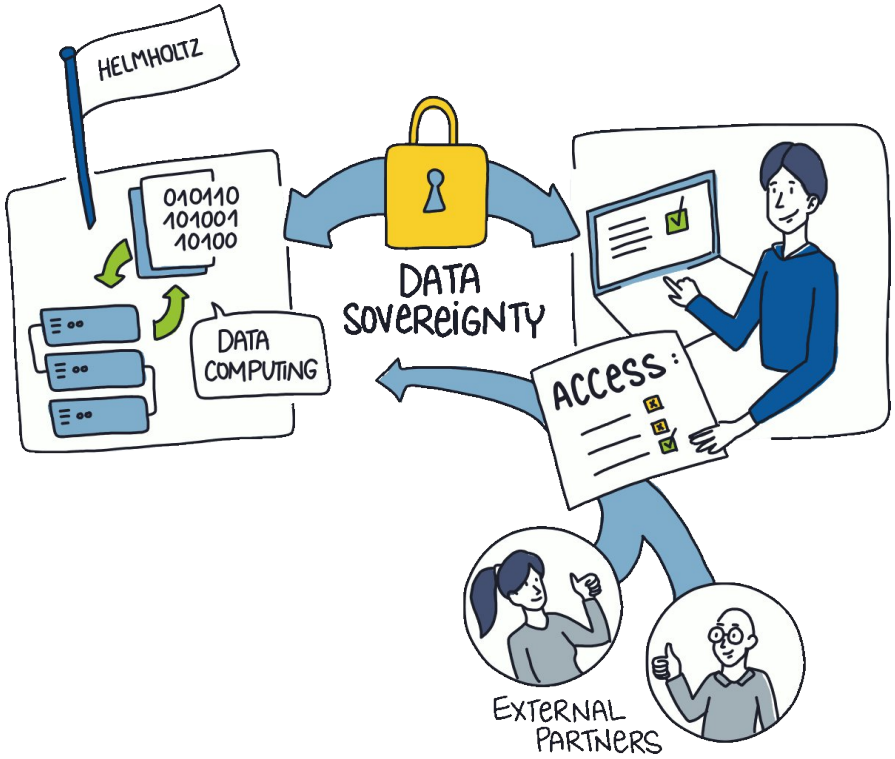
Helmholtz Digital Services for Science - Collaboration made easy.

Software Services by HIFIS
GFZ Research Software Meet-up, Potsdam, 2022-09-14

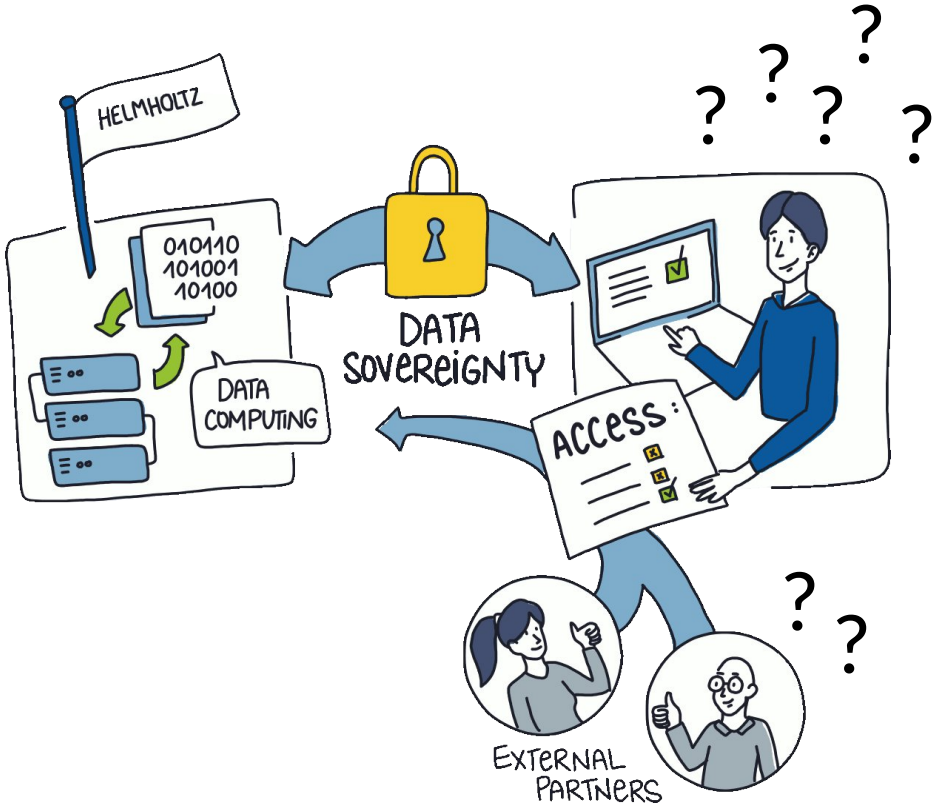
Uwe Jandt
on behalf of the HIFIS Team

HIFIS Software Services

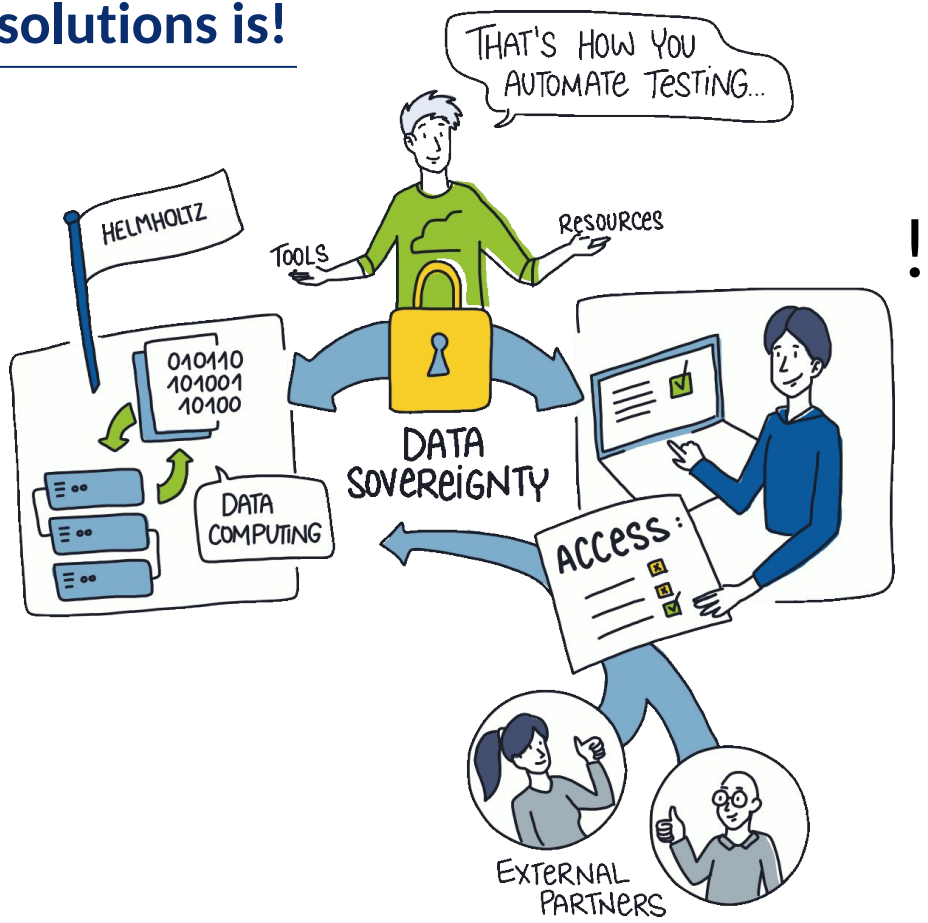
Providing IT services



Providing IT services … is not everything



Providing digital solutions is!



Software Services

Best-practices for sustainable Research Software Engineering on multiple levels:

Education & Training

- **Courses, material** and **workshops** for getting you started or boosting your software engineering practice.

Community

- Build and foster communities to support the **cultural change** when dealing with research software.
- Maintain a SW Directory

Consulting

- **Contact points** for researchers for questions and problems in the context of RSE.

Technology

- Provide a sustainable, well integrated and easy to use **technology infrastructure** for research software development.

Software Services

Education & Training

Basic

- First Steps in Python-Programming
- Project Management with GitLab
- Version Control using Git
- Foundations of Research Software Publication *(New course in March 2022)*

Intermediate

- GitLab for Software Development in Teams
- Let us Make Your Script Ready for Publication
- OOP Programming with Python (New course in May 2022)
- Continuous Integration (CI) using GitLab CI *(New course in June 2022)*

Advanced

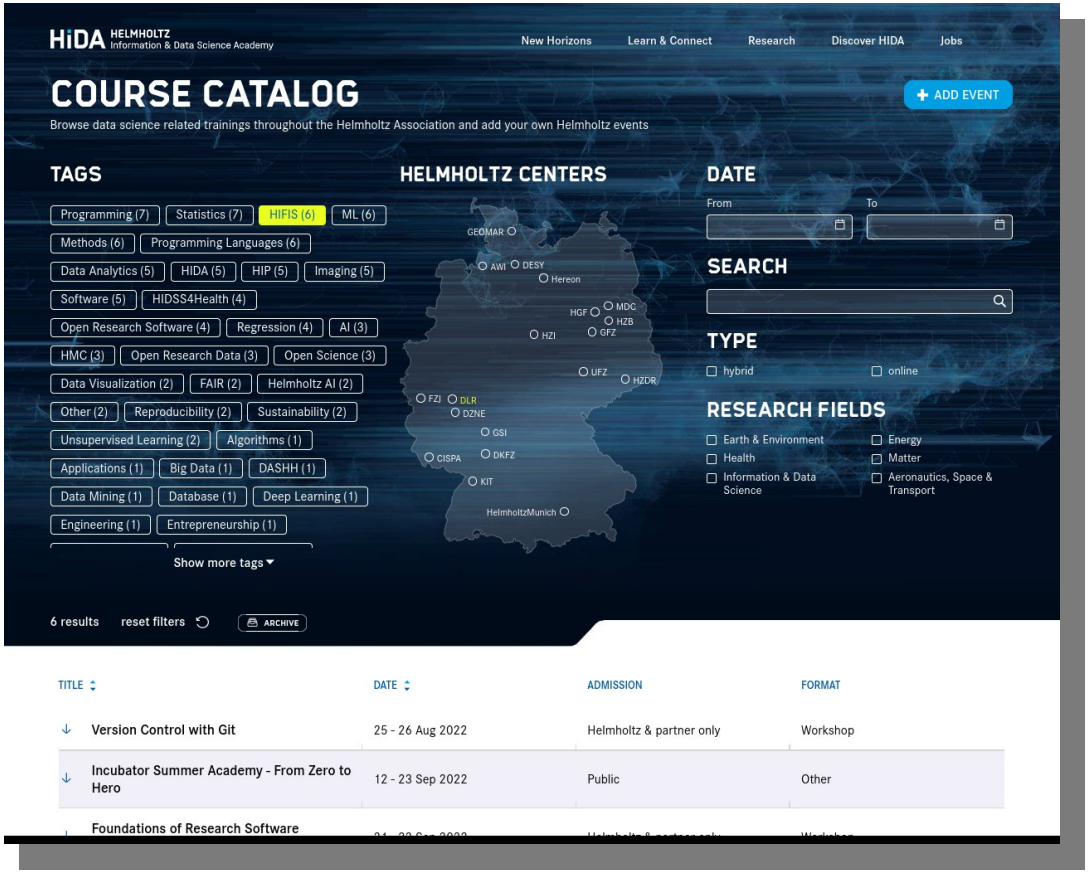
- Using Containers in Science
- Test Automation with Python

➢ https://gitlab.com/hifis/hifis-workshops

Software Services

Education & Training

- Collaborating with others
- *HIDA Course Catalogue* - Central place to announce courses in Helmholtz
- *TEACH* Conference – Talk about Education Across Communities in Helmholtz
- Support Hackathons and other platform events



Software Services

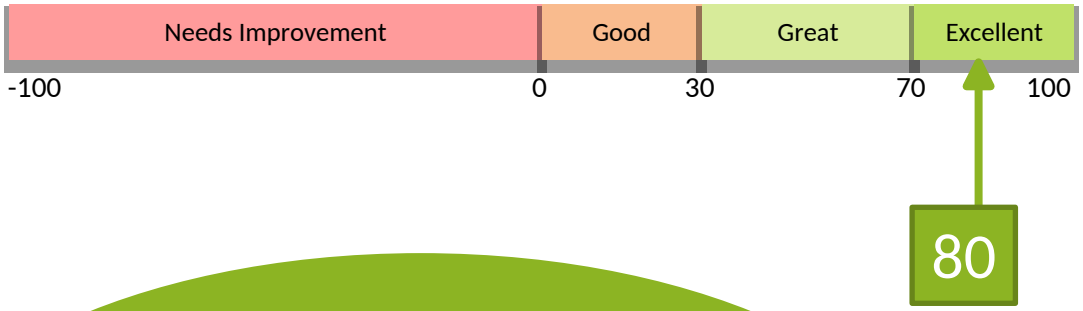
Consulting

- Free-of-charge software consulting for research groups within the Helmholtz umbrella
- Possible topics include, but are not limited to Licensing and Open Source, setting up new projects, code migrations etc.
- Most recent initiative:
  - Awesome List RSE: https://github.com/hifis-net/awesome-rse

Software Services

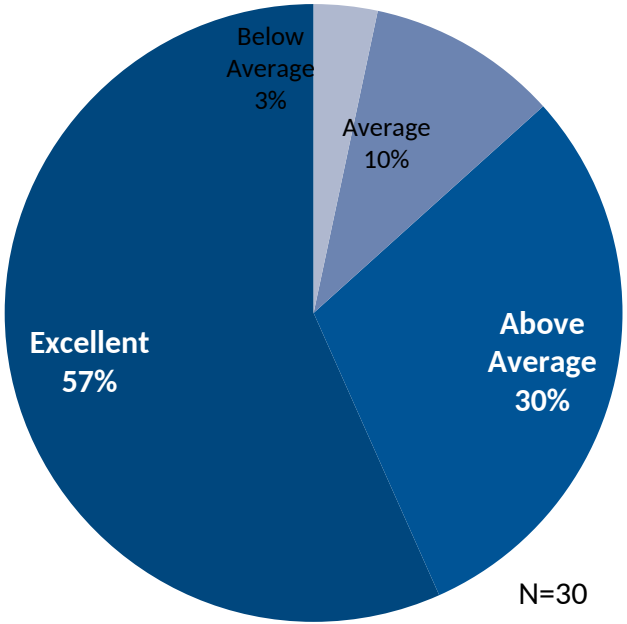
Consulting

Net Promoter Score



This was a great experience. Having worked at a Helmholtz institution for many years, it is a bit difficult for senior staff to understand that this is really a free and open service meant to support research groups in different fields. This is quite uncommon in "old Helmholtz" and it may take a while before HIFIS becomes widely known and accepted...

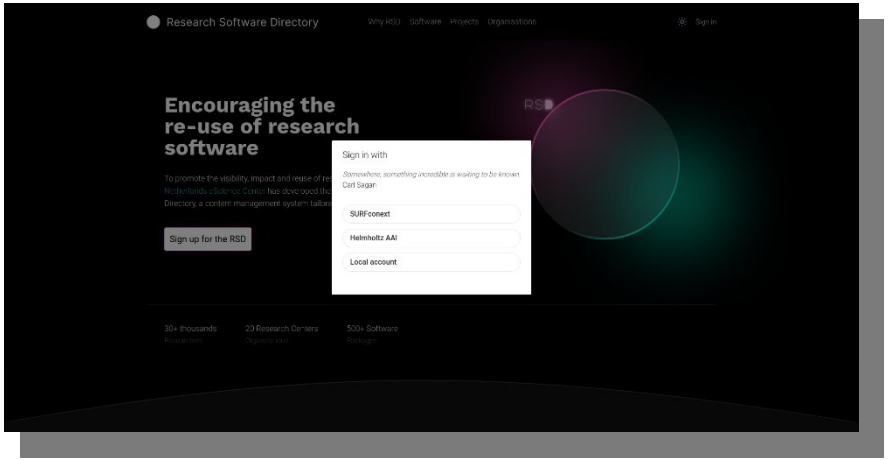
Impact of the consultation on your project or work



Software Services

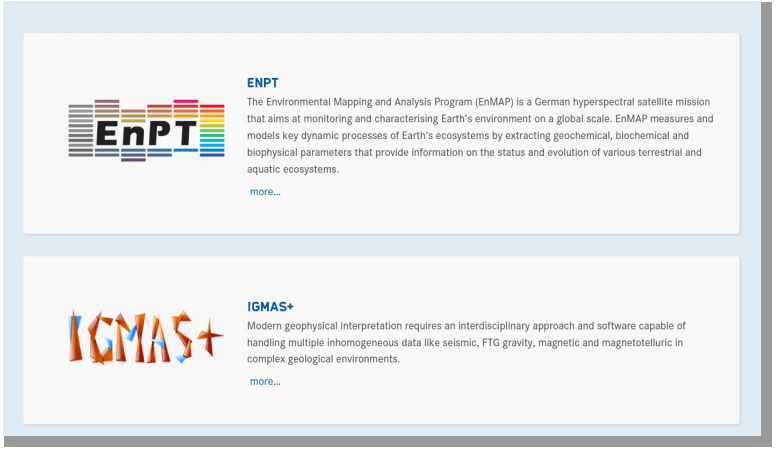
Community

Research Software Directory



- Development of a Research Software Directory for Helmholtz
- Built on top of and in cooperation with the Netherlands eScience center solution

Software Spotlights



- Present & Promote top success stories of Research Software Engineering in Helmholtz
- > **100 Proposals**, thereof >20 being presented in: https://hifis.net/spotlights

HIFIS Take home

I. Helmholtz Digital Services for Science - Collaboration made easy.

Try it! Most Software and Cloud Services readily available for Helmholtz + Partners.

II. Consult us:

- https://hifis.net
- https://hifis.net/news
- support@hifis.net

III. Instead of talking f2f today:

- Mattermost (link in indico)

Katerina Limpitsouni via undraw.co