

# EOSC and national providers

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# Helmholtz Data Federation (HDF)

- The Helmholtz Association is developing a **federated research data infrastructure** in Germany **based on scientific use cases** from communities across the German science system
- High strategic relevance in the context “**Information & Data Science**” of the further development of the Helmholtz Association
- Building block for a **national research data infrastructure (NFDI)** and the **European Open Science Cloud (EOSC)**
- Three elements: innovative **software** for data management and FedIDM/AAI, excellent **user support** and joint R&D, leading-edge storage and analysis **hardware**



# Stimulus

- ***What service(s) the EOSC should provide to attract national providers to open up their national facilities and services to international research?***
  
- **Federated AAI as the basis** – broad role-out in all scientific/public institutions
  
- **Simple services** that 99% of the scientists really need, e.g.
  - Google docs like functionality
  - Dropbox like functionality (with a certain limit in volume)
  - Doodle like functionality
  - Video/teleconferencing like functionality
  - Data repositories

## Stimulus – cont'd

- **Data-intensive services** for “large-scale” scientific data (probably not needed by 99% of all scientists, howsoever “large-scale” is defined)
  - Data storage & archival (investments needed !!!, EuroHPC does not help at all)
  - Data transfer services based on fast WAN connections
  - High throughput analytics services next to the data storage (I’m not talking about HPC systems as in PRACE)
- **Compliant** with the legal framework (e.g. GDPR)
- Based on **solid funding** – no short-termed (e.g. 3 years) project funding
- **In conjunction with national initiatives**