

Bridge4NFDI

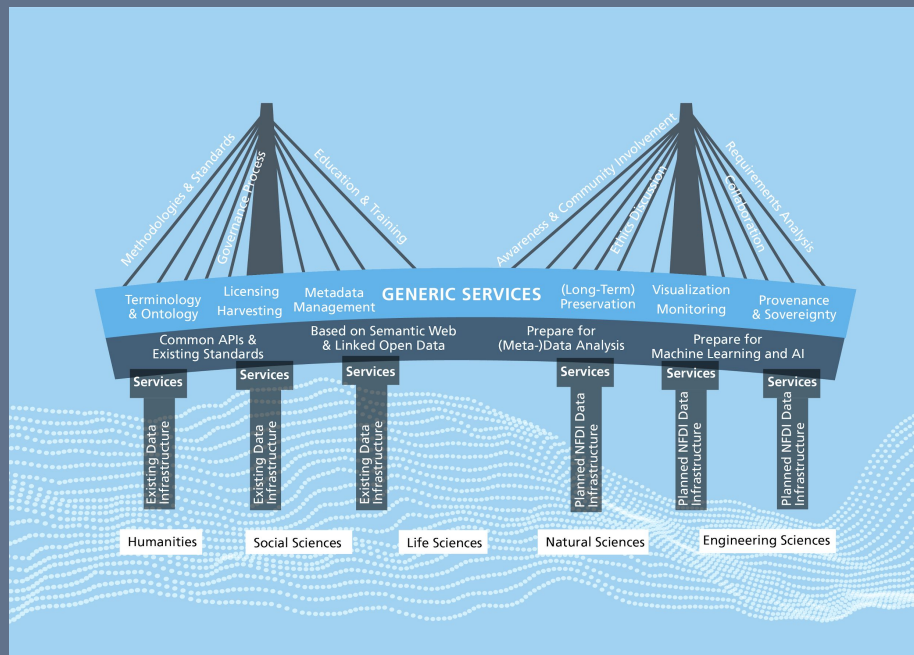
»Bridging boundaries among national research data infrastructures«

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<https://www.bridge4nfdi.de>



Goals

Interoperability

- Avoid fragmentation and data silos
- Establish shared infrastructures and principles
- Find a “common ground” regarding technical, social, cultural and economic aspects

Multidisciplinarity

- Increase discoverability and effective use of domain-specific research data
- Enable multidisciplinary research and data-driven innovation
- Connect experts from different disciplines and domain communities



Collaboration

- Involve discipline-specific NFDI consortia
- Join efforts in a bottom-up, integrative and non-descriptive approach
- Provide technical as well as non-technical support

Reuse

- Build on standards and practices that exist in the scientific communities
- Reuse existing solutions from different disciplines, generalize them where possible and transfer them from one discipline to another

Build a network of generic and domain-specific research data systems and services

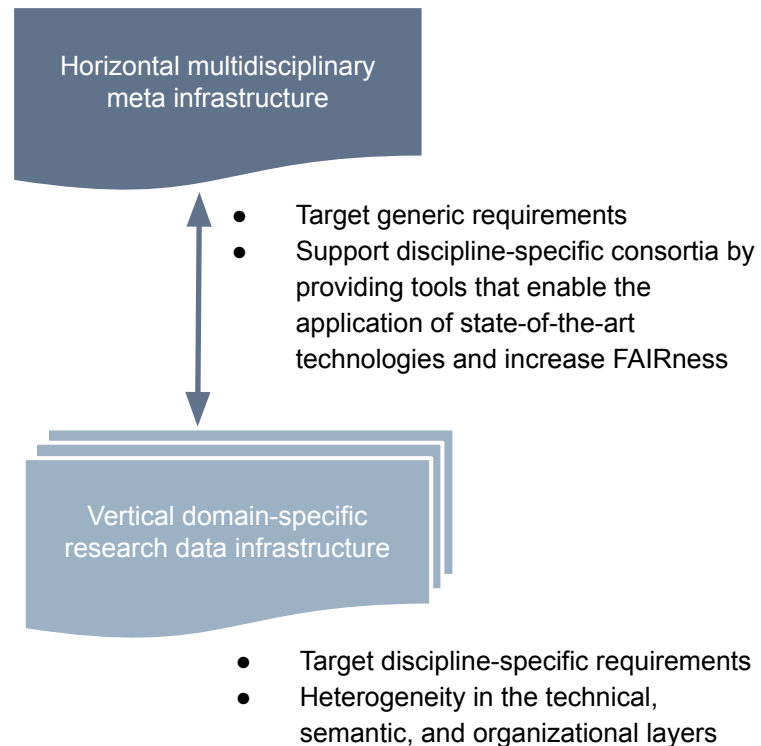
Planned Research Data Infrastructure

Goals of NFDI

- Build a distributed yet cooperating network of scientific data management systems

Goals of Bridge4NFDI

- Provide a **(meta-)infrastructure for research data**
 - Access point to the (meta-)data of the NFDI consortia and other existing infrastructures
 - Harmonized interfaces for human and machines
- Offer a variety of **generic services** that can be used by the other NFDI consortia



Planned Research Data Infrastructure

Generic services

- Harvesting service, metadata management service, visualization service, (long-term) preservation service, monitoring service, licensing service, provenance & sovereignty service, terminology & ontology service, (...)
- Prepare for **(meta-)data analysis** and **machine learning & AI**
- Propagate **common APIs** and **existing standards**

Measures for **user participation and involvement**

- Requirements analysis, collaboration, awareness & community involvement, governance processes, education & training, ethics discussion, methodologies & standards