

Investments in NFDI and more: the German case

EOSC Symposium 2022; Session: National Commitment to EOSC

Strategic Papers

[Data Strategy of the Federal Government](#)

January 2021

Aims to

- make the German data infrastructure effective and sustainable,
- enhance the innovative and responsible use of data,
- develop data competency
- make public data better accessible.

The German Data Strategy references to several European Initiatives, including EOSC.



Strategic Papers

BMBF Action Plan Research Data October 2020

- data as a key to our future
- aims at establishing a data culture in education, science and research

The action plan bundles measures for the following three goals:

- Data sovereignty/data infrastructures,
- data-based innovations and
- data skills.



National Research Data Infrastructure (NFDI) – Basic facts

- **Legal basis** : [Agreement on the Establishment and Funding of a National Research Data Infrastructure](#) (November 2018)
- **Funding**: up to 90 million euros annually from 2019 to 2028 from federal and state governments (90:10 ratio)
- **3 application rounds for up to 30 consortia**
- **Science-driven** selection and evaluation process, led by DFG
- **Overarching governance structure** with Directorate, Scientific Senate and Convention of the Consortia
- Close **cooperation** with European and international research data infrastructures

NFDI-Implementation – Development over time

DataPLANT, GHGA, KonsortSWD, NFDI4Biodiversity, NFDI4Cat,
NFDI4Chem, NFDI4Culture, NFDI4Health, NFDI4Ing

BERD@NFDI, DAPHNE4NFDI, FAIRmat, MaRDI,
NFDI4DataScience, NFDI4Earth, NFDI4macrobiota,
NFDIMatWerk, PUNCH4NFDI, Text+

FAIRAgro, NFDI4BIOIMAGE,
NFDI4Energy, NFDI4Immuno,
NFDI4Memory, NFDI4objects,
NFDIxCS + BASE4NFDI

NFDI e.V.

2021

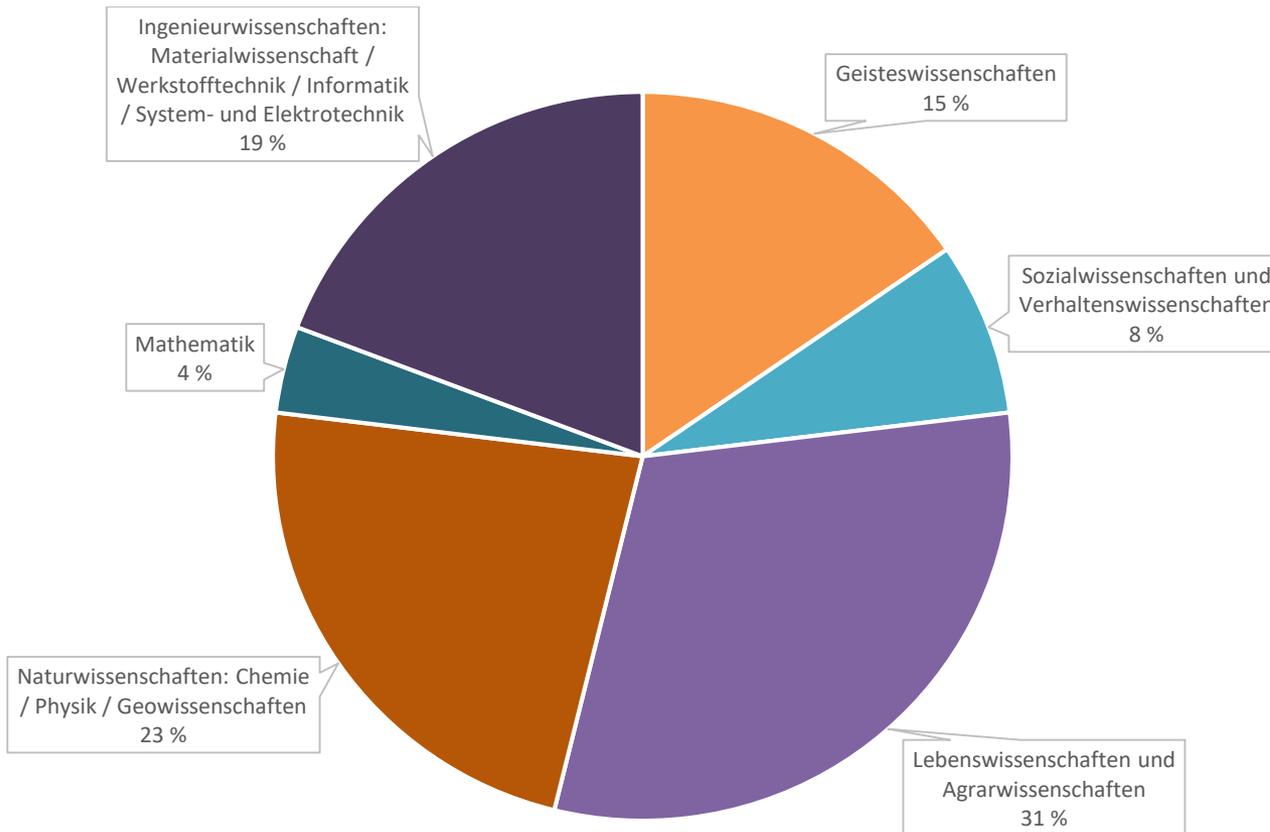
2022

2023

2024

2025

NFDI-Implementation: the network



By region:
Institutions from all 16
Länder

By type of organisation:
scientific organisations,
universities and colleges,
non-university research
institutions, professional
societies and
associations

NFDI e.V.: more than 200
members

NFDI implementation: aims and activities

- Research Data Management
- Long-term data preservation and accessibility
- FAIR Data
- Standards

Currently four cross-cutting issues are taken up in sections of the NFDI:

- [Common Infrastructures](#) (*section-infra*)
- [Ethical, Legal and Social Aspects](#) (*section-ELSA*)
- [\(Meta\)data, Terminologies, Provenance](#) (*section-metadata*)
- [Training & Education](#) (*section-edutrain*)
- Further sections to be established

Linking NFDI and EOSC

NFDI is a **major contribution to EOSC ...**

- Broad community, overlap in aims and activities
- NFDI e.V as **mandated organisation** in the EOSC-Association
- **National tripartite event** in Germany, 24 November, 2022, “NFDI & EOSC – Connecting the Communities”

... but we do more:

Example: Measures to foster data literacy

- Timeline: 2021-2026
- Funding: total of 71.5m € from resilience and recovery fund

BMBF calls to foster Data competences in Science

1. 'Re-use and management of research data at universities of applied sciences'
 - aims to enhance data management and data sharing
2. 'Strengthening the data skills of the next generation of scientists'
 - aims to enhance data literacy and data sharing
3. 'Establishment of data competence centres in science',
 - aims to establish data competence centres that provide learning opportunities, research activities and networking

All projects to start by December 2022 at the latest.

Thank you!

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