

August 31 – September 2, 2020

Geospatial Sensing Virtual 2020



Research Data Infrastructures
A means for collaboration in science

Wednesday, 9:00 am

Setting the scene

- The scientific community is facing a rapid growth of research data in terms of quantity and heterogeneity
- Challenges
 - High level of fragmentation and thus in many cases inefficient use of available data
 - Increased costs (time, money) due to complex (or even multiple) data acquisition and integration
 - Missed research opportunities, if data remains unknown or is not accessible for external researchers
 - Data becomes virtually useless, if knowledge about the data gets lost (e.g. if staff leave or responsibilities change)

Research Data Management

- RDM an emerging topic within the scientific community
 - Practices, guidelines, technical means to ensure sustainable availability and re-use of research data
 - Goes beyond simple storage, also covers data curation, publication etc.
 - Strongly associated with FAIR principles, i.e. make research data findable, accessible, interoperable, reusable
 - Makes data-driven research more efficient (for individuals, labs, communities)
 - Enables and encourage new (interdisciplinary) research
- Core component of good scientific practice
- Enabler for a culture change towards open and reproducible science
- Increasingly important for acquiring research funds (RDM strategy prerequisite for funding)

Setting the scene

- Research data infrastructures (RDI) start to become reality
 - Share a set of common principles, rules and standards for systematically manage research data across organizational or even national borders
 - Provide resources and services for long-term data storage, backup and accessibility
 - Enable re-use of research data
 - Enable interdisciplinary research



Setting the scene

- National Research Data Infrastructure Germany (NFDI)
 - Implementation recommended by the German Council for Information Infrastructures (Rat für Informationsinfrastrukturen, RfII)

RfII is a panel of experts advising politics and science on strategic issues related to digital science, established by the Joint Science Conference of the German Federal Government and the Heads of Government of the Länder (Gemeinsame Wissenschaftskonferenz – GWK)

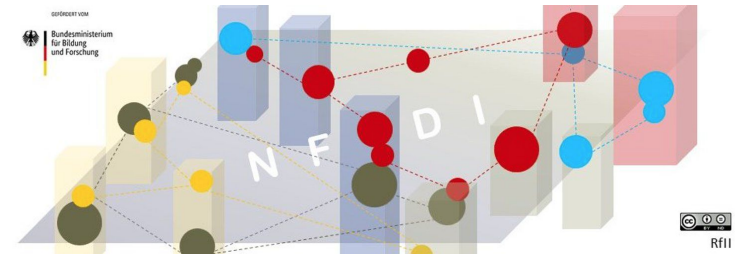


- Stipulated in the German coalition agreement 2018

“... systematize scientific databases by means of a national research data infrastructure and ensure sustainable access.” (Coalition agreement, 03/2018, p. 33)
<https://www.bundesregierung.de/Content/DE/StatischeSeiten/Breg/koalitionsvertrag-inhaltsverzeichnis.html>

Setting the scene

- National Research Data Infrastructure Germany (NFDI)
 - Internationally embedded long term initiative (not just-based solutions)
 - Driven by scientific users and providers from various domains
 - Substantial budget available 90 Mio €/a for 10 years
 - Funding of up 30 consortia, each representing a scientific domain
 - 9 consortia starting in 2020 (covering research fields from medicine, social sciences, humanities, chemistry, biology, engineering)



Objectives and Agenda

- Objective - to discuss the relevance of RDM and RDI for our community
 - What are the challenges?
 - What are our expectations?
 - Are there any concerns?

Agenda	
09:10	The NFDI4Earth journey: Diversity and common ground in Earth System Sciences <i>(Peter Braesicke, Karlsruher Institut für Technologie - IMK-ASF)</i>
09:30	NFDI4Agri - Unlocking the agricultural data silos <i>(Florian Hoedt, Thünen Institute)</i>
09:50	Brief statements/contributions from attendees
10:05 - 11:00	Open Discussion and Wrap Up