





More and more research results are achieved by using already existing research data.

see FAIR principles: <a href="https://doi.org/10.1038/sdata.2016.18">https://doi.org/10.1038/sdata.2016.18</a>





However, **significant efforts** are still required to **find** the right data set, **understand** it and **use** it for the purpose at hand.

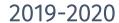
see FAIR principles: <a href="https://doi.org/10.1038/sdata.2016.18">https://doi.org/10.1038/sdata.2016.18</a>



# **History**

#### 2016

Recommendation by the German Council for Scientific Information Infrastructures



Preparing the foundation of the association









2018

Agreement of the Joint Science Conference (GWK)

12.10.2020

Foundation of the NFDI Association





# 279 association members

5 sections adressing cross-cutting topics



> 1000 people involved

26 consortia & 1 basic services initiative





# 279 Member Organizations throughout Germany

- Members: legal entities
- Universities, research institutions, service providers, ...
- Most of the members also involved in the NFDI consortia
- No member fees

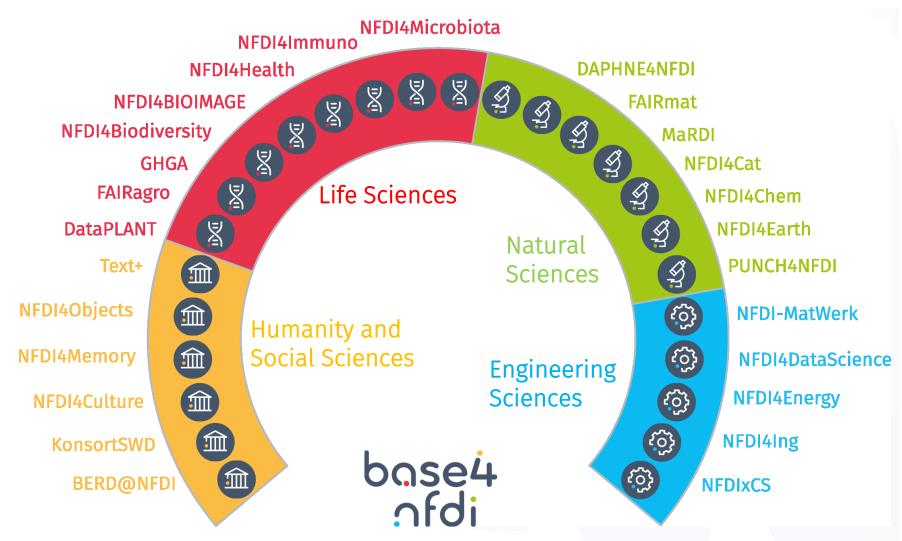








### 26 consortia + 1 initiative of all consortia

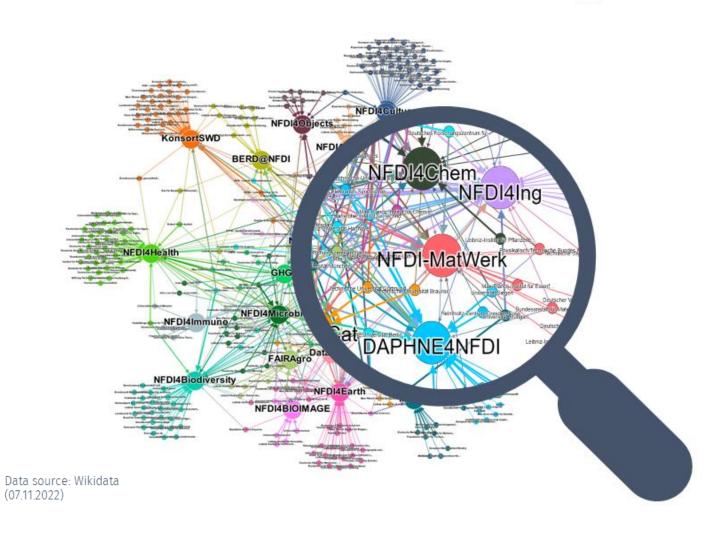






# Network of consortia and organisations

Joint solutions instead of isolated solutions!

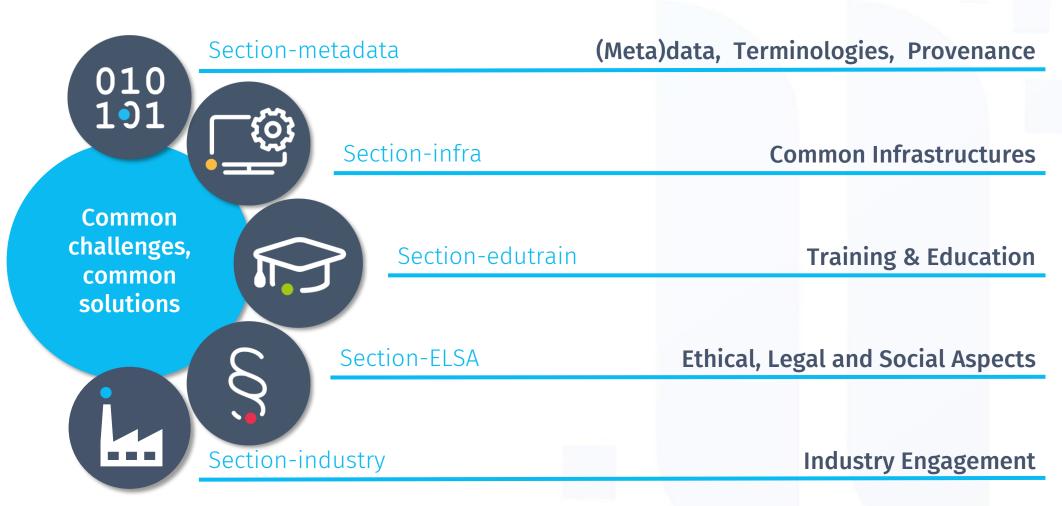








### **5 Sections**

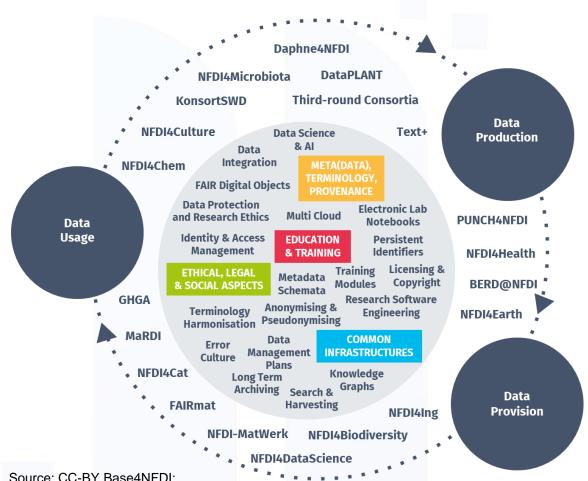






### **Base4NFDI**

- Joint basic service initiative of all NFDI consortia.
- A basic service is a **technical-organisational** solution
- **Example:** Authentication and Authorisation Infrastructure, AAI
- Base4NFDI coordinates and establishes basic services for all consortia and sections according to defined, participative processes within the association.
- **Building** on **existing solutions** and complementing EOSC



Source: CC-BY Base4NFDI;

https://nfdi4earth.de/images/nfdi4earth/events/1.%20plenary%20meeting%20june%209-10%202022/Presentations/10 Bernard.pdf (28.07.2022).







# 3 basic services are already in development

#### **IAM4NFDI**

- Identity- und Access-Management (IAM)
- Goal: standardised access to data, software and computing resources for collaborative work
- Service about to enter next development phase

#### PID4NFDI

- Persistent Identifier
  Services (PID) for the
  German National Research
  Data Infrastructure
- Goal: Establishment of proven PID infrastructures

#### **TS4NFDI**

- Terminology Services 4 NFDI
- Goal: Harmonisation and consensus building of NFDIrelevant terminologies





### **Vision**

NFDI: Data as a common good for excellent research, organised by science in Germany.





## Learnings

- Heterogeneity of scientific fields and consortia: translation work between the different fields and consensusbuilding sometimes takes longer
- Three funding rounds of consortia: different starting times, different communities with individual conditions and requirements
- Different steering mechanisms:
  Politics: top-down vs. NFDI: bottom-up





## Recommendations

- Bottom-up: Demand- and user-oriented design
- Common Identity (One NFDI): Work towards a common identity, but don't take it as granted
- Inclusion of many scientific fields
  - Knowledge transfer and faster learning
  - ✓ High concentration of expertise

# Thank you!







@fairimpact\_eu /company/fair-impact-eu-project



