

Base4NFDI:

cross-domain base services for the German research community

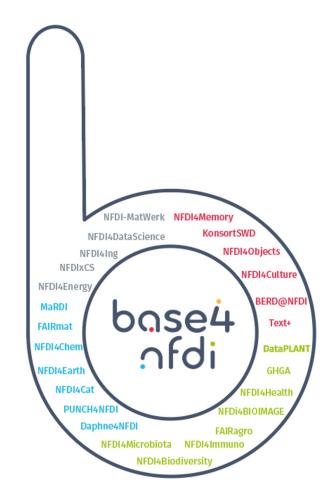
Dr. Brigitte Mathiak | GESIS, co-speaker Section Metadata Najla Rettberg / Sandra Zänkert FAIR practices for FAIR Dataspaces in the German research community | 24.01.2023 | EOSC FAIR-IMPACT



What is Base4NFDI?

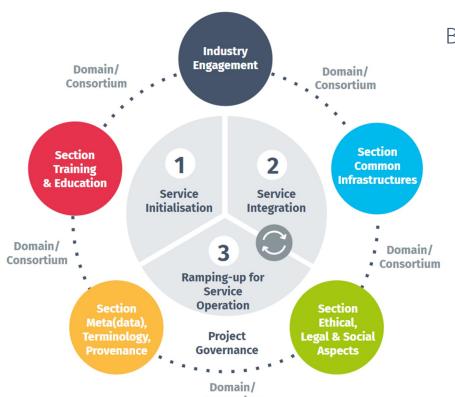
Our definition and goals

- Base4NFDI is the joint initiative of all 26 consortia.
- Our goal is to establish reliable basic services for FAIR research data management.
- Basic services will be ...
 - easily usable for as many consortia as possible,
 - interoperable with international standards and services (e.g. EOSC) and
 - utilising synergies between existing solutions.



Mission & Potentials

Translate needs & topics into basic services



Base4NFDI provides the framework for ...

- defining potential basic services
- user-driven requirements analysis
- stepwise development for integrating and ramping-up basic service candidates
- setting up NFDI-wide basic service portfolio
- monitoring and evaluation
- transparent allocation of flexible funding
- consensus building

What is a Basic Service?







storage and computing services



software, processes and



workflows

3. support for service desks

... with different levels of technicity!



A basic service ideally ...



creates added value for all users



bundles existing services



considers sustainable systems

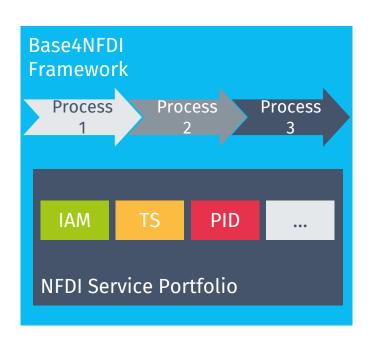


is time- and usage-effective with trackable KPIs

Mission & Potentials

Key Deliverables

- Framework for user-driven and quality-assured basic service development
- Agile process to establish a NFDI-wide basic service portfolio
- Establish basic services starting with:
 - Identity and Access Management Service (IAM)
 - Terminology Services (TS)
 - Persistent Identifier Service (PID)
- Building on existing solutions
 that are interoperable with the EOSC and follow
 its guidelines



Funded Projects (so far)

IAM4NFDI - Identity and Access Management





- Some consortia/communities without any solution for identity and access management
- Other communities with established but different systems (DFN-AAI, DARIAH-AAI, Life-Sciences-AAI)
- NFDI-wide solution needs to integrate with EOSC solutions
- Federation and long-term operation as an organisational and technological challenge

Funded Projects (so far)

PID4NFDI - Persistent Identifier Service





- Different consortia have different levels of maturity in PID implementation
- PIDs as central component for FAIR RDM
- Provision of a PID service
- NFDI-wide PID strategy
- Close collaboration with PID Network
 Deutschland

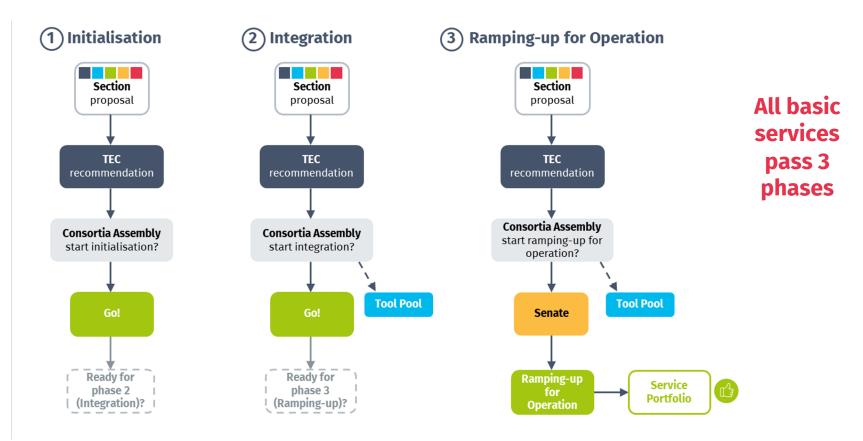
Funded Projects (so far)

TS4NFDI - Terminology Services



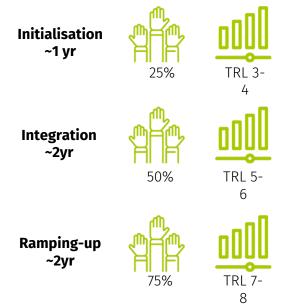
- Terminologies are often discipline specific
- Cross-domain service for the provision, curation, development, harmonisation and mapping of terminologies
- Integration and convergence of individual solutions

Decision making process for each phase



Base4NFDI's Criteria for Developing Services across 3 Phases

Concept















Base4NFDI

manage complexities of integrating and adapting services

 Section Liaison Officers directly support the work of the Sections in matters directly related to preparing basic services development strategies, decisions and monitoring (TA3)



• Service Stewards will support the service development process through all stages of the development (TA1 and TA2). They will ensure a smooth interplay between the Sections, participating consortia and partner organisations involved in the development of a service.



Base4NFDI - Service Stewards

manage complexities of integrating and adapting services



Lydia Niksch
University of Leipzig
Federated access
IAM4NFDI



Semantic interoperability and reusability



André Giesler
FZ Jülich
Federated storage/ computeinfrastructure
IAM4NFDI/TS4NFDI



Dr. Denise Jäckel
Humboldt University
Data literacy, data
management support



Jana Tatscheck
Leibniz Institute for Psychology
Data management, ingest,
archival
PID4NFDI



Data protection & anonymisation

Thank You! Questions?

https://base4nfdi.de/

najla.rettberg@tu-dresden.de

