

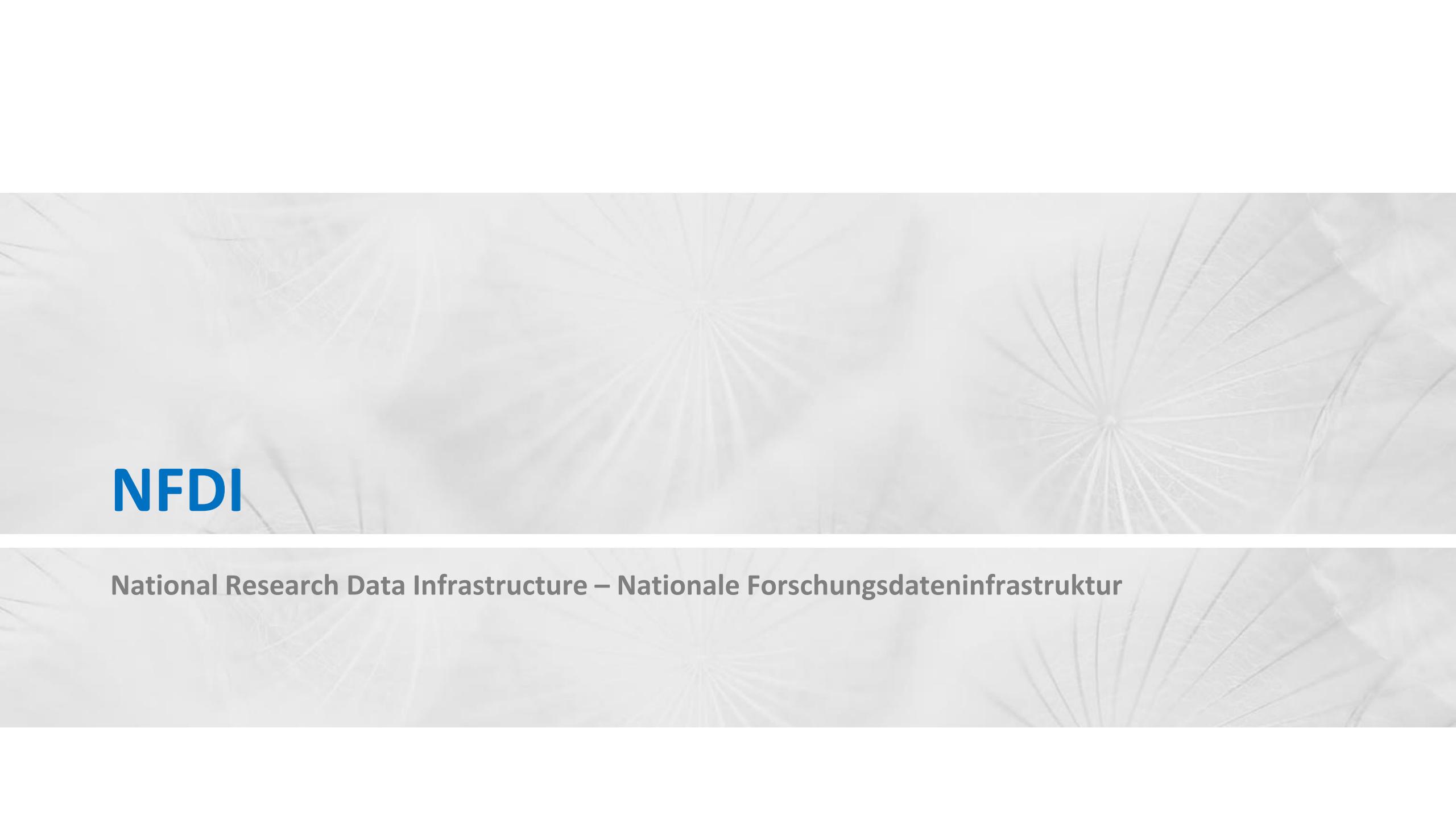


Biodiversity, Ecology and Environmental Data

An introduction



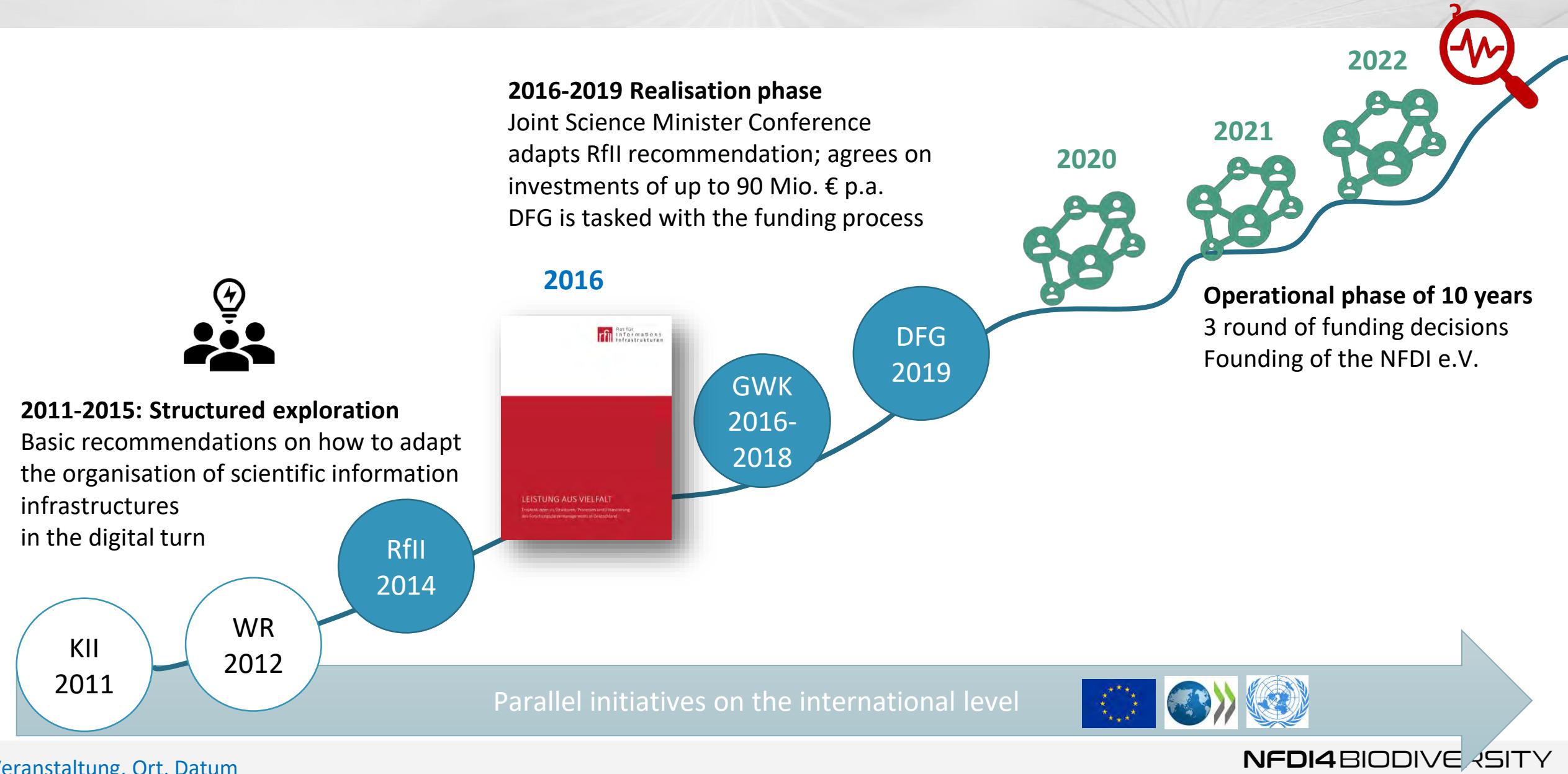
Biodiversity – an artistic rendition by @microbiobac



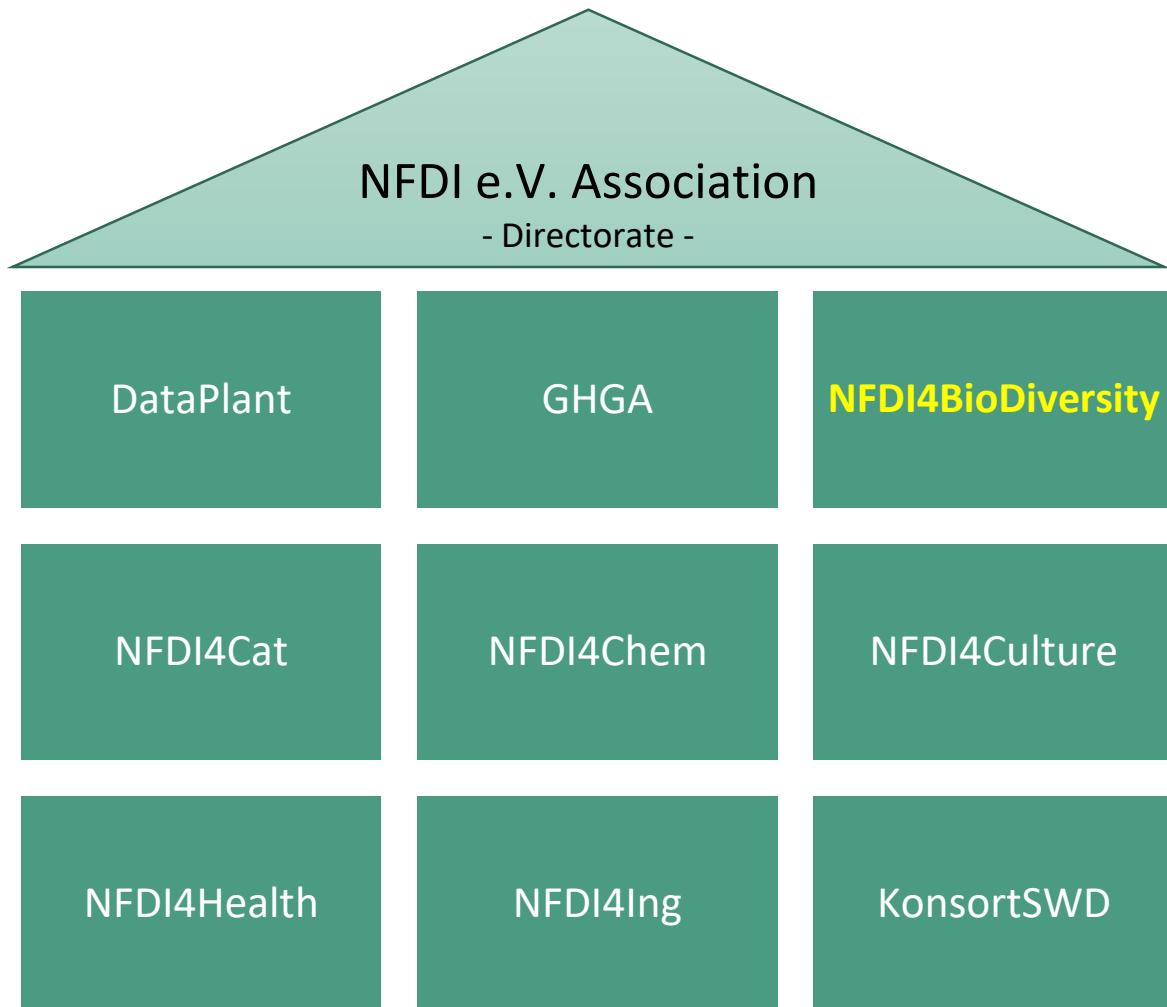
NFDI

National Research Data Infrastructure – Nationale Forschungsdateninfrastruktur

The Road Towards NFDI



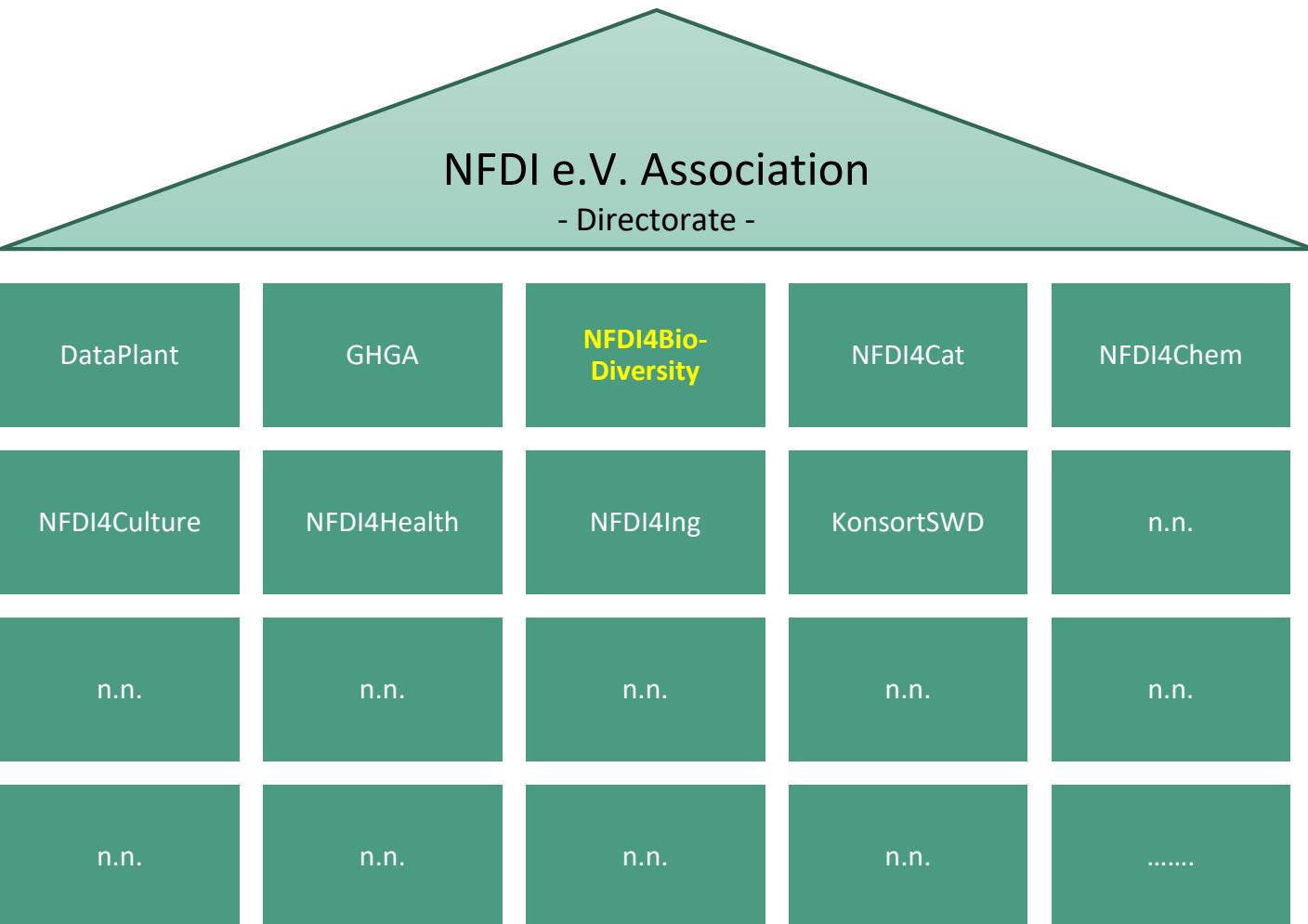
Structure of the NFDI after Round 1



January 2021

- 9 Consortia, organised by research domain
- ~100 (Co-)Applicant Organisation
- ~200 other partners

Structure of the NFDI after Round 2 & 3



January 2023 ff.

- Up to 30 Consortia, covering all research domains in Germany
- Several hundred organisations teaming up as suppliers and in decision processes
- > 1,000 professional staff

NFDI4BioDiversity

Facets of Biodiversity



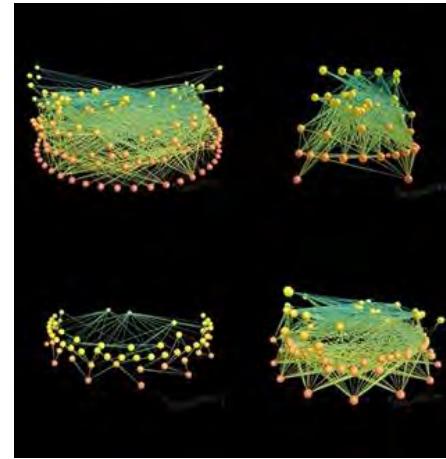
species



genes



functions

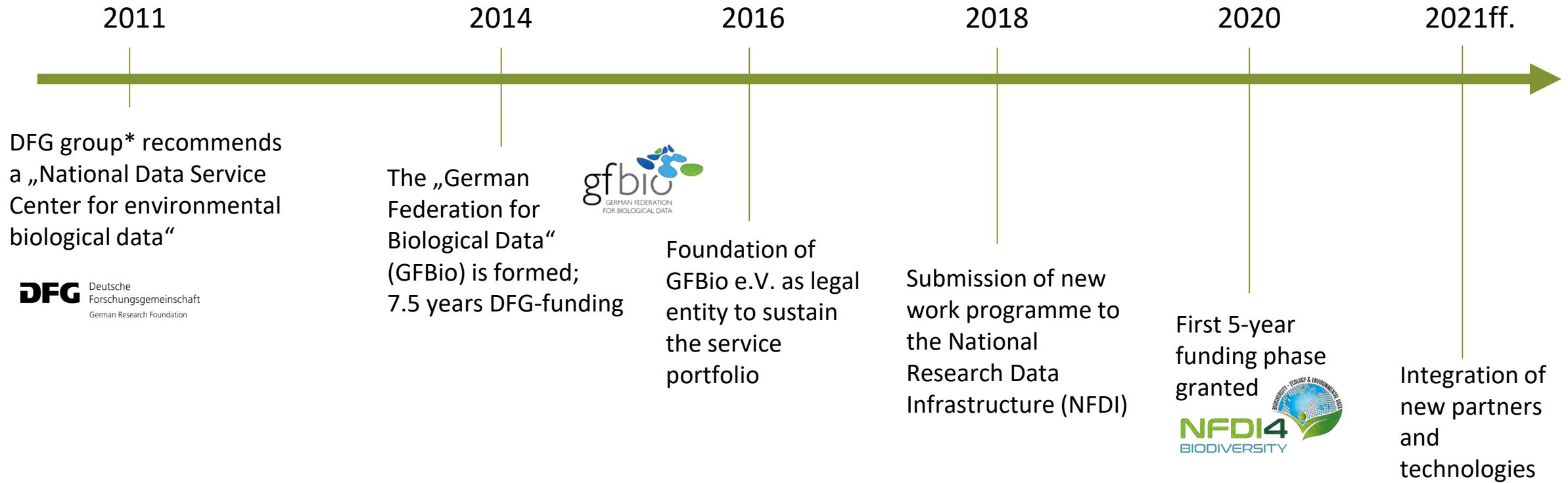


interactions



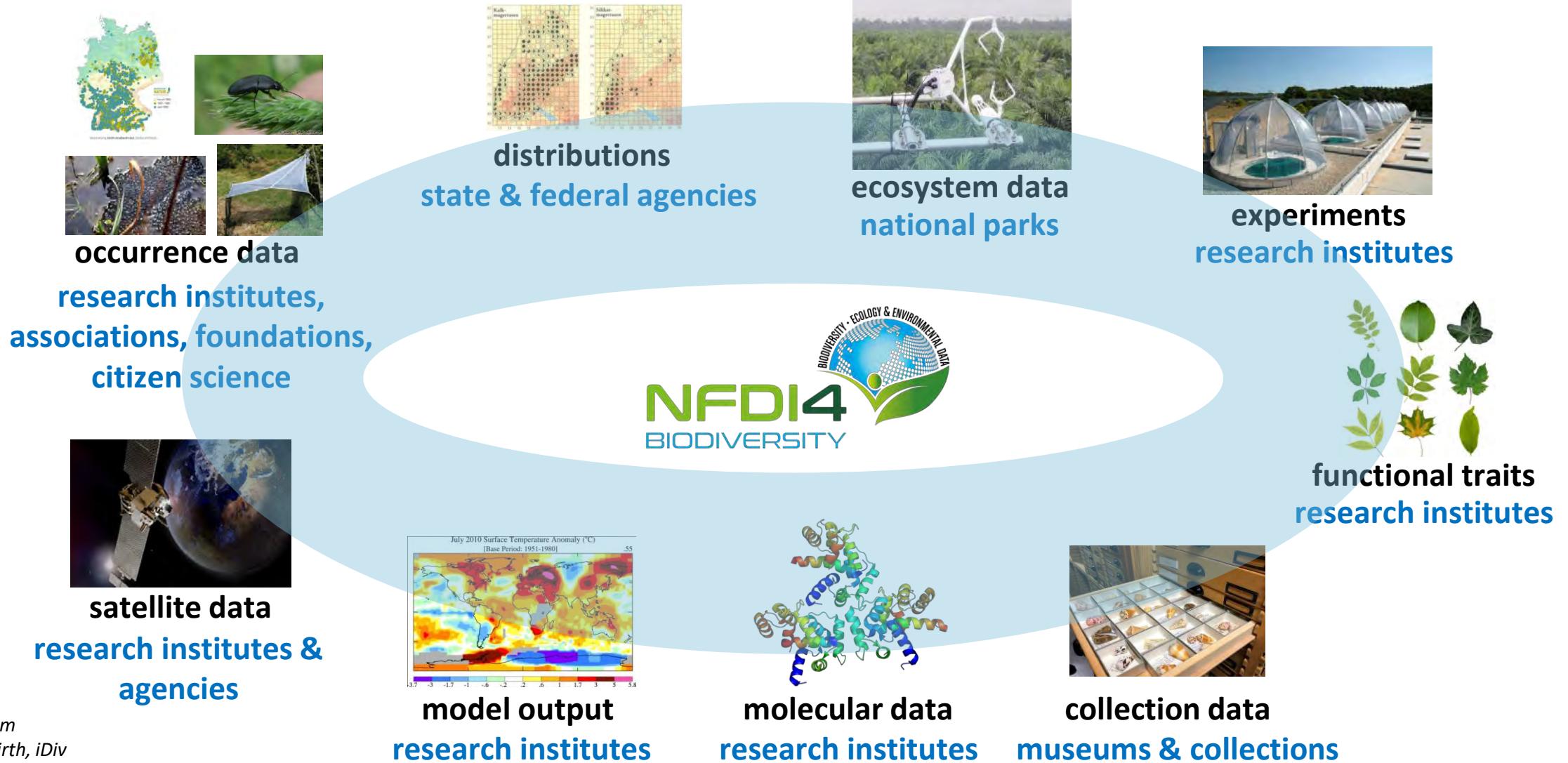
ecosystems

Joint services for environmental biological data in Germany – a history



*AG Biodiversitätsdaten der Senatskommission für Biodiversitätsforschung

Current Status – Heterogeneous, Scattered Data & Formats



Adapted from
Christian Wirth, iDiv

GFBio Achievements

- Established data infrastructure with 20 partners
- Common (metadata) language
- Outreach, support and training
- Trusted partner for DMP, research data management, archiving and publication, “brand”
- Unified data submission system
- Integrated search and visualisation of data



PLAN

Prepare a custom Data Management Plan (DMP).



SUBMIT

Submit your data to GFBio.



PUBLISH

Make your data citable.



TRAIN

Train your data management skills.



SEARCH

Search the GFBio data pool.



VISUALIZE & ANALYZE

Dynamically integrate, analyze and visualize GFBio datasets.



ARCHIVE

Deposit data and specimens in dedicated long-term archives.



ANNOTATE & CONNECT

Use the GFBio Terminology Service to describe your data and share terminologies with other researchers.

The NFDI4BioDiversity Consortium: Participants

Academia

AWI IfL MPI-BGC
BIOfid IGB SUB
DNAquaNet InfAI Uni Göttingen
HIFMB IÖR Uni Leipzig

Collection Datacenters

BGBM-DI SMNS
MfN ZFMK
SGN ZMT



BSH NP Bayerischer Wald
HLNUG NP Hunsrück
Kühn Institut Staatl. Archive Bayern
LAU Thünen Institut
LfULG

Agencies

AraGes Spinnen GfL-Fische
BUND GfÖ
DDA-Vögel Naturgucker
GdO-Libellen NetPhyD-Pflanzen

Societies & Citizen science

Community Engagement (2involve)

- Support with tools/platforms for early mobilisation
 - Front office/back office – RDM support
 - Education and training
 - Quality surveys



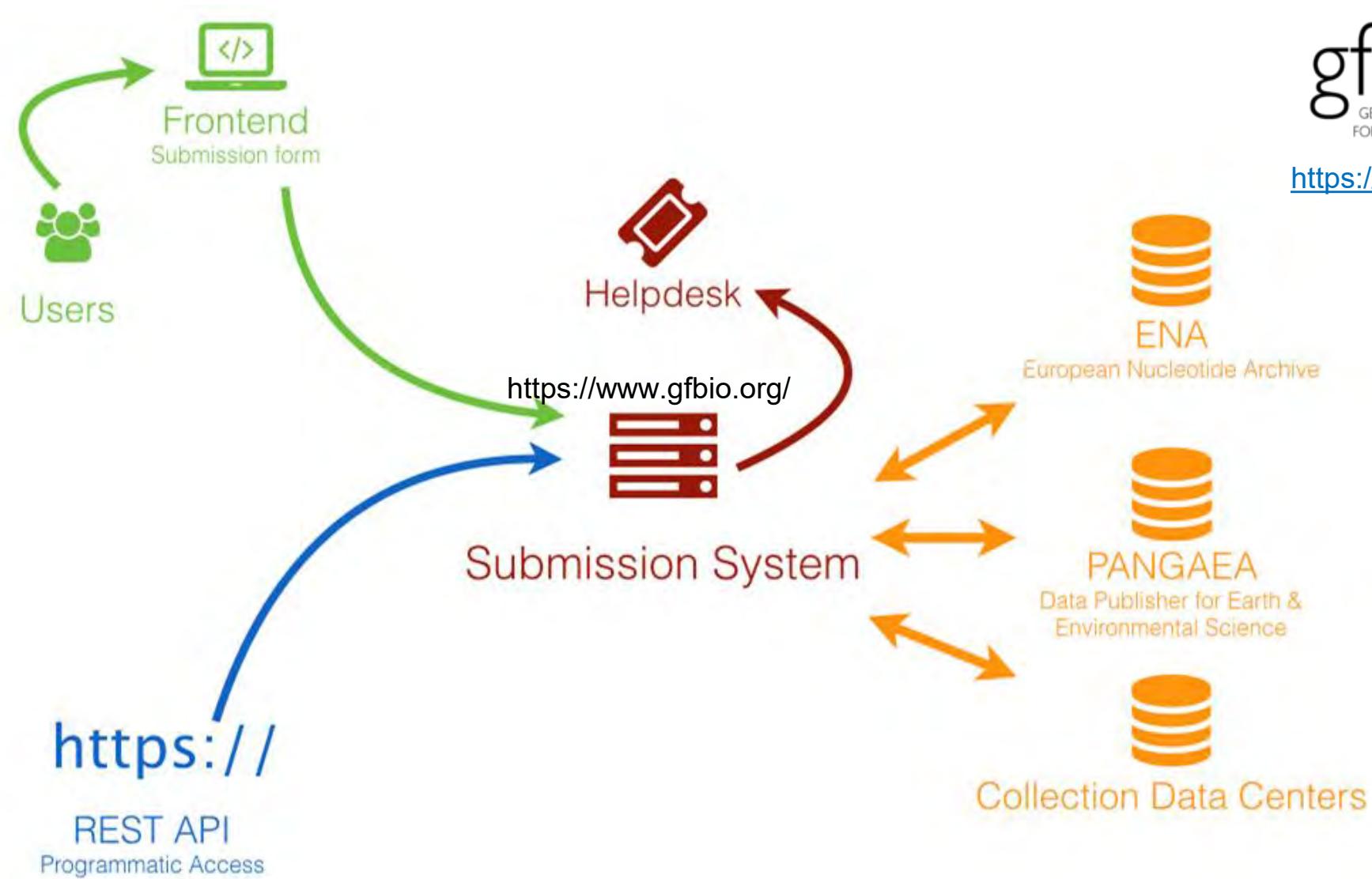
RaMA2016
CC BY-SA 4.0, Wikimedia Commons



Nick Youngson
CC BY-SA 3.0 Alpha Stock Images

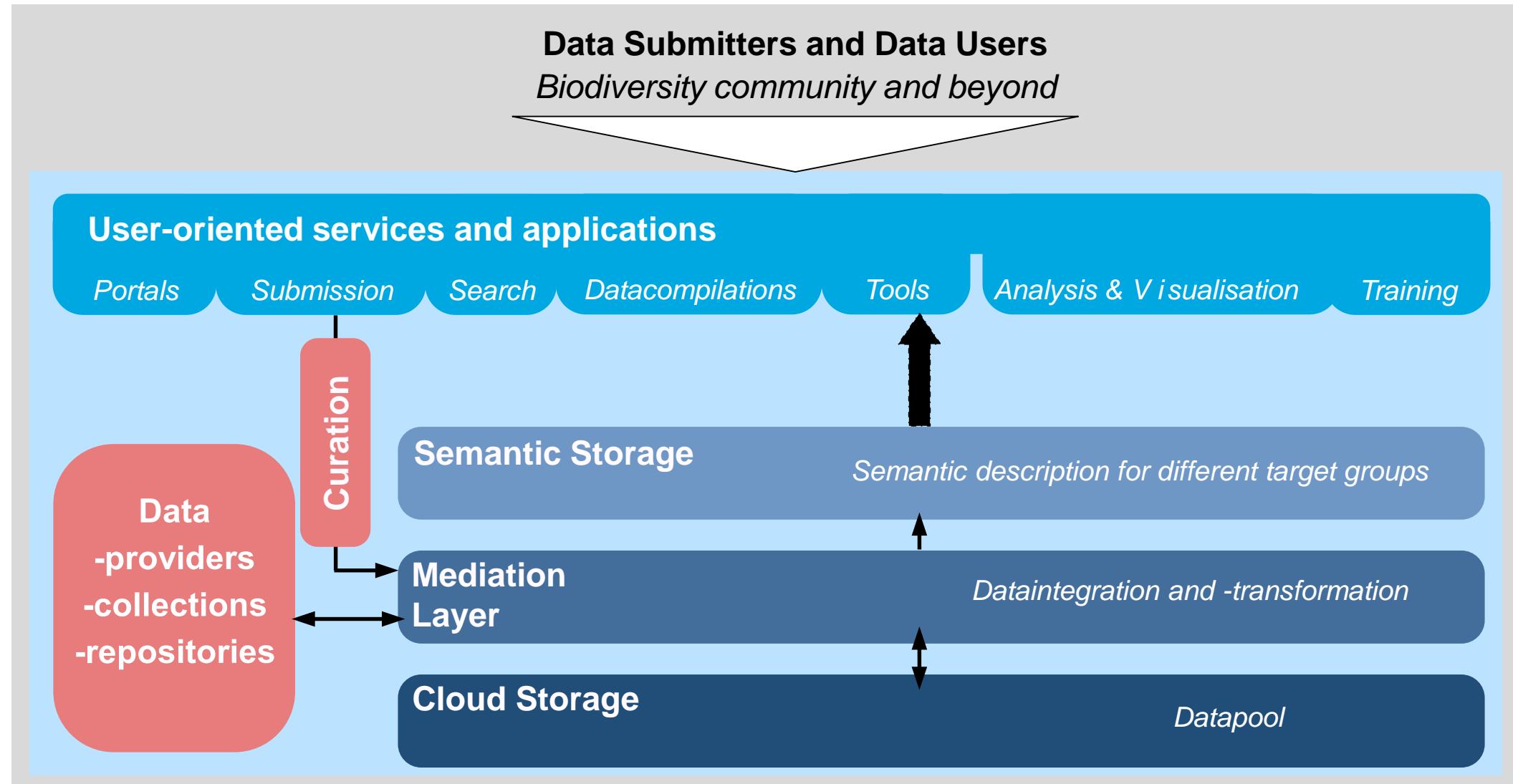


For individual researchers: Submit your data to collections

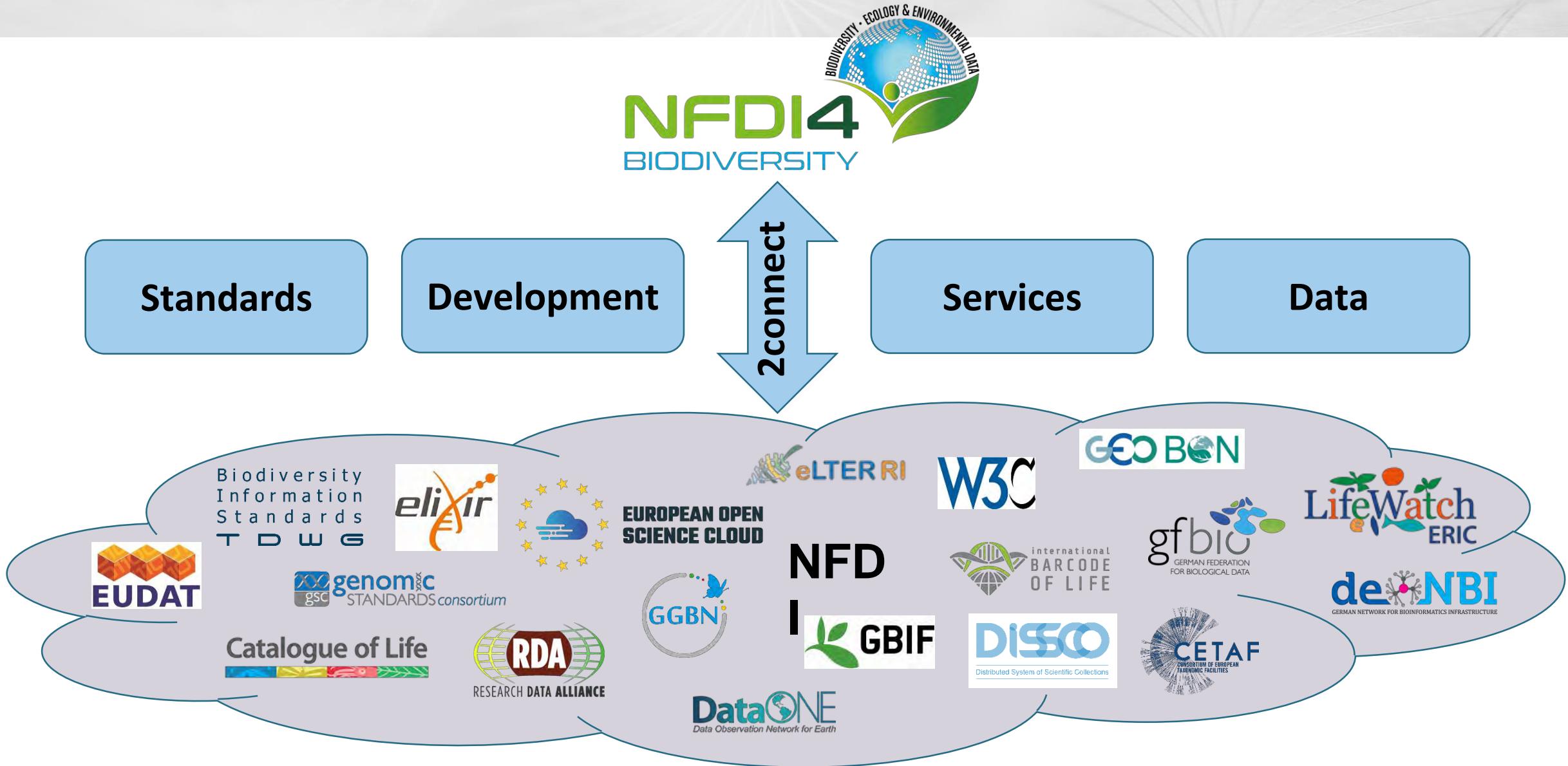


<https://www.gfbio.org/>

4all & 4future: Data Integration, Exploration, and Exploitation



2connect: National and International Networking



Thank You

NFDI on YouTube:

- [What is the National Research Data Infrastructure \(NFDI\)?](#)
- [The NFDI Review Process](#)

Overview of consortial initiatives in the current process

- [Nationale Forschungsdateninfrastruktur NFDI](#)

More about NFDI4BioDiversity

- [www.nfdi4biodiversity.org](#)

Submit and find quality data

- [www.gfbio.org](#)

