Data Life Cycle in Practice: An experience report from GFBio

German Federation for Biological Data

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Supporting researchers throughout the data life cycle

GFBio Portfolio

Data Publication

✓ Assignment of **persistent identifiers**

DOI

- ✓ Visibility of research
- ✓ Citations
- ✓ Data re-use

Data Management Planning

Custom data management plans (DMP)

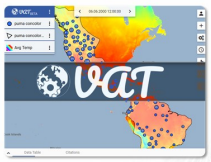
- ✓ cost estimation
- ✓ funders' guidelines

Workbenches & Tools

Software to help researchers manage their data

Easy transfer of data through GFBio

Data Visualization and Analysis

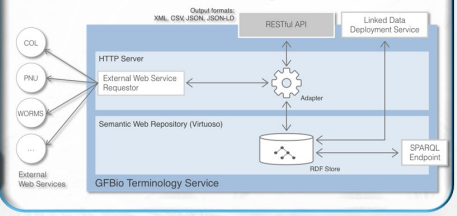


Visualization
Aggregation
Transformation

... of spatio-temporal biodiversity data

Terminology Service

Bridging domain specific standards and ontologies



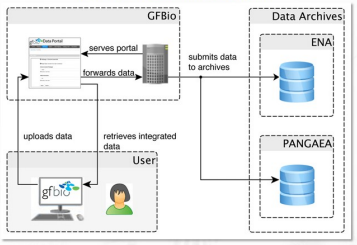
Data Access

Browsing the GFBio data pool

Data Centers

- ✓ Biodiversity & Collection
- ✓ Ecological
- ✓ Environmental
- ✓ Molecular

Data Submission



Exemplary submission workflow for molecular data

Mission

The GFBio project aims to provide a national, sustainable, service-oriented data infrastructure

- Funded by the German Research Foundation (DFG)
- Facilitating data sharing for biological and environmental Research
- Multidisciplinary consortium - natural history collections, environmental data archives, research centers, libraries, bioinformatics and computer science institutions
- In May 2016 the non-profit association GFBio e.V. was founded as legal entity

GFBio mediates expertise and services between the GFBio data centers and the scientific community

- Access to tools, standards and working platforms
- Central contact point for data submission to dedicated data centers → long-term preservation and publication of data
- Open access portal for data archived at the GFBio data centers
- Services for analysis and visualization of data available via GFBio
- Training materials for data management, organization of events for education and training of scientists

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