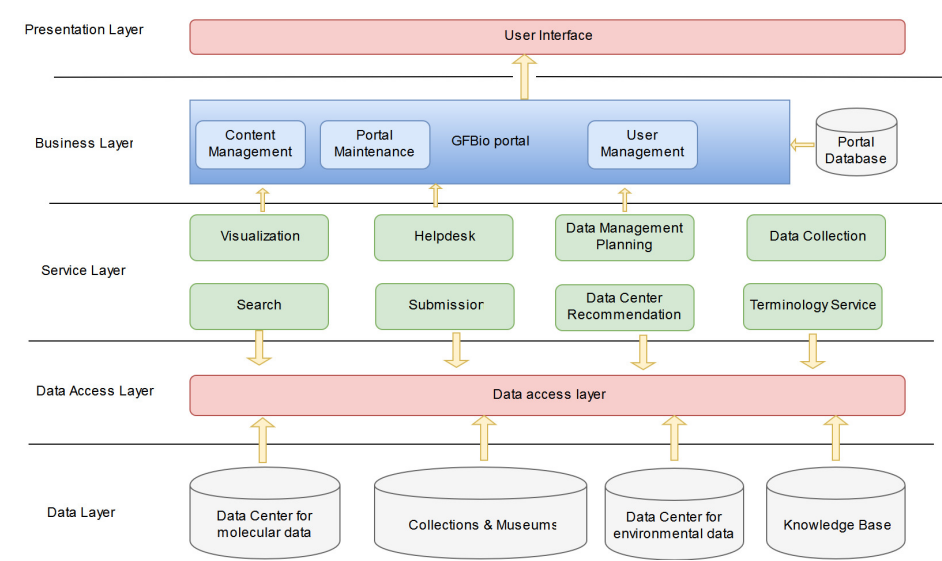


WP 3.1 – DATA PORTAL & SEARCH

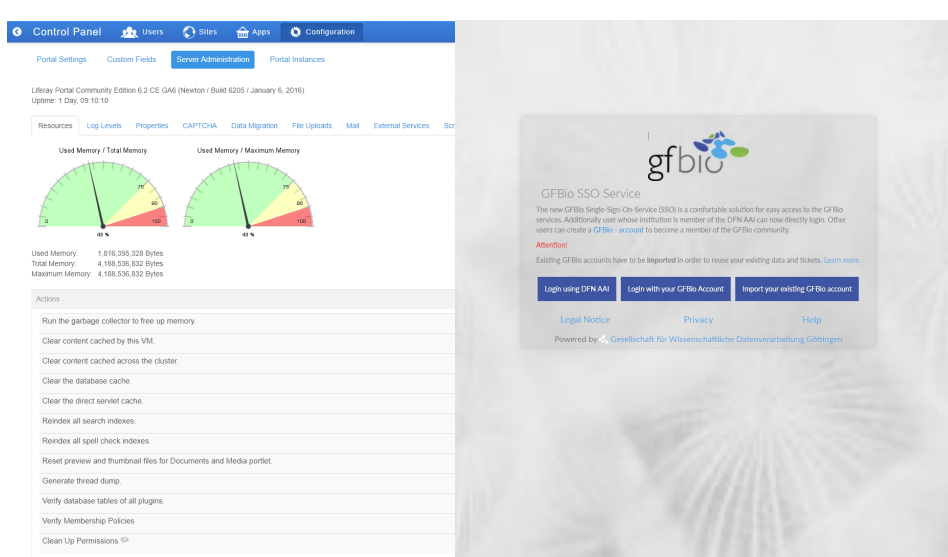
¹Birgitta König-Ries, ²Robert Huber, ²Michael Diepenbroek, ¹Samira Babalou, ⁴Florian Becker, ²Andree Behnken, ³Sven Bingert, ⁵David Fichtmüller, ¹Marcel Frömming, ¹Philipp Kahn, ⁴Naouel Karam, ¹René Lachmann, ¹Felicitas Löffler*, ⁴Claudia Müller-Birn, ¹Kobkaew Opasjumruskit, ²Uwe Schindler, ¹Fateme Shafiei, ¹Sven Thiel*, ¹Valentin Wesp

#SERVICE INTEGRATION



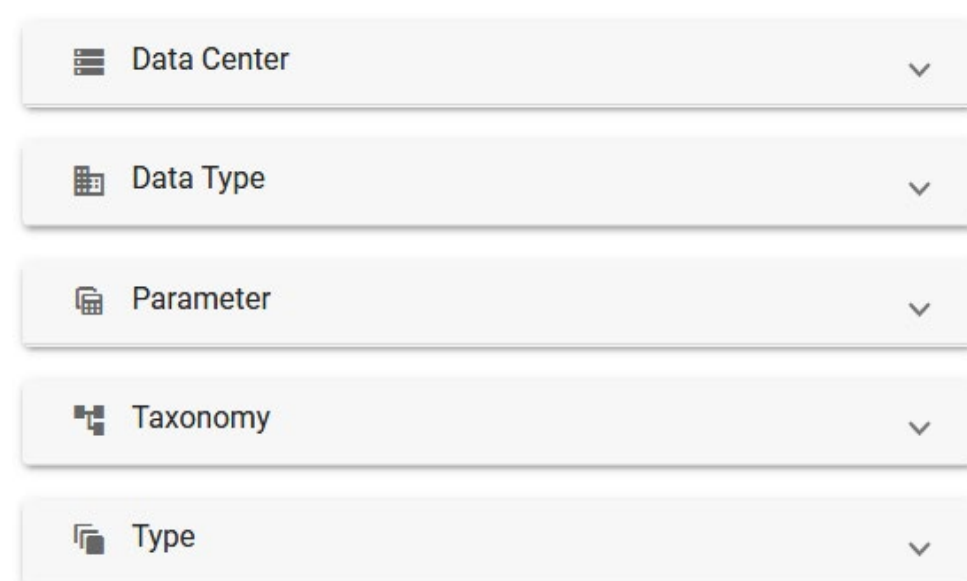
The data portal acts as the central access point for various GFBio services. Providing access and ensuring the communication between these services were one of the main tasks in WP 3.1.

#SERVER MAINTENANCE



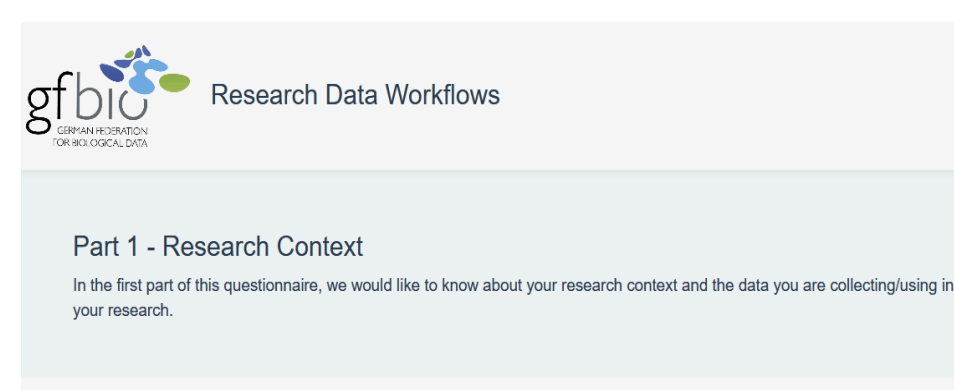
During the entire project lifetime the Windows and Linux servers were regularly maintained. Besides Liferay updates, new versions of the GFBio services were continuously integrated, e.g., the switch of the authentication system (SSO).

#SEARCH FACETS



Together with biodiversity experts and project members search facets were revised according to user preferences in dataset search.

#EVALUATION

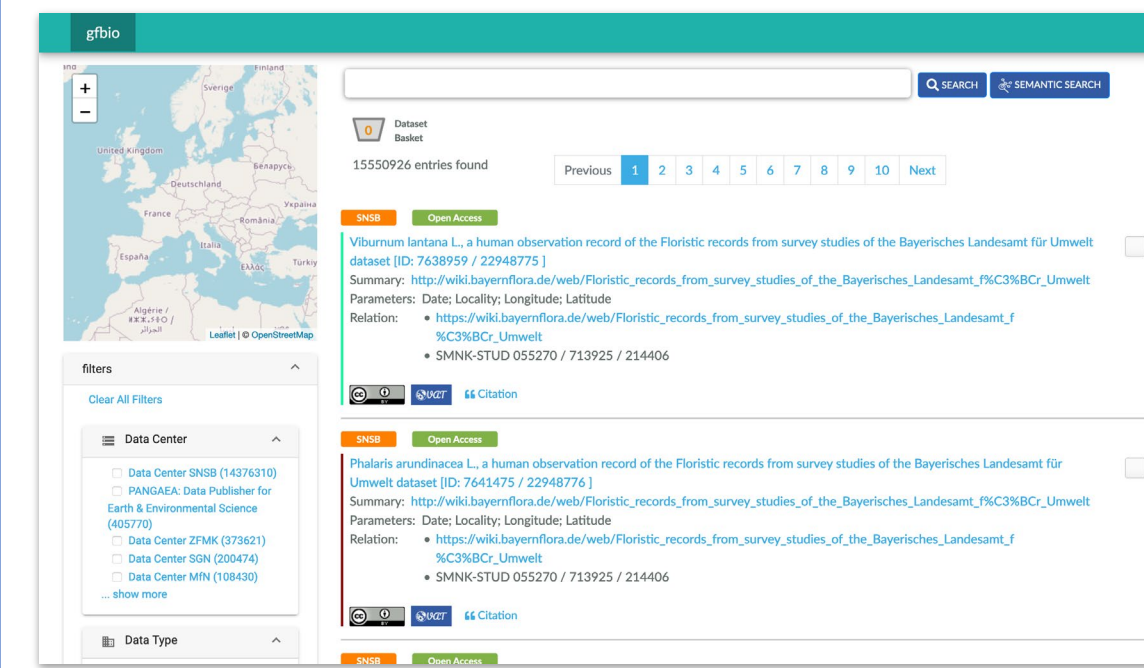


Multiple user evaluations took place to explore information needs in terms of data management, search, submission and visualization and to improve the accuracy of search results.



#DATA PORTAL

<https://www.gfbio.org> - Single point of entry for all steps in the Data Lifecycle: [Dataset Search](#), [Data Submission](#), [Visualization](#), [Data Management Planning](#), [Training](#), [Workbenches & Tools](#), [Terminology Service](#)

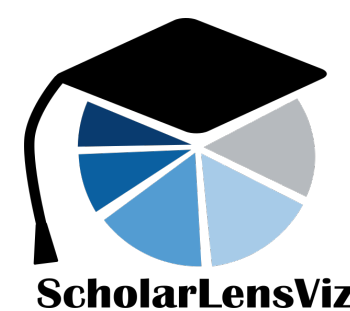


#SEARCH

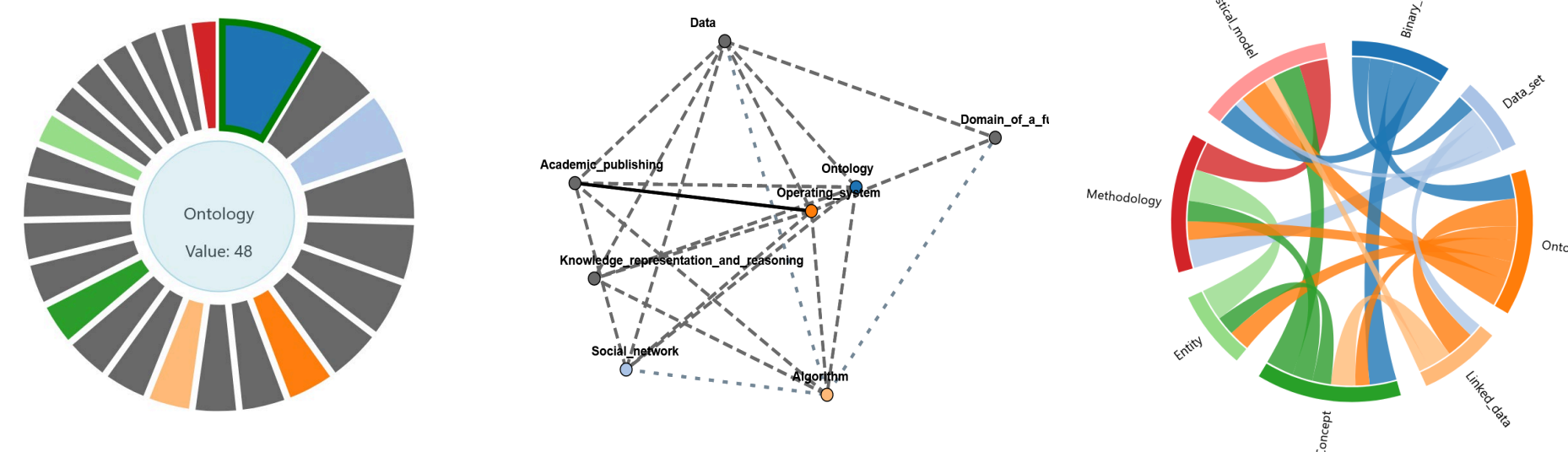
GFBio's search enables scholars to retrieve datasets from multiple archives and data repositories. The developed search interface - [Dai:Si](#) - allows an easy usage and presents search results in a user-friendly and comprehensive view.



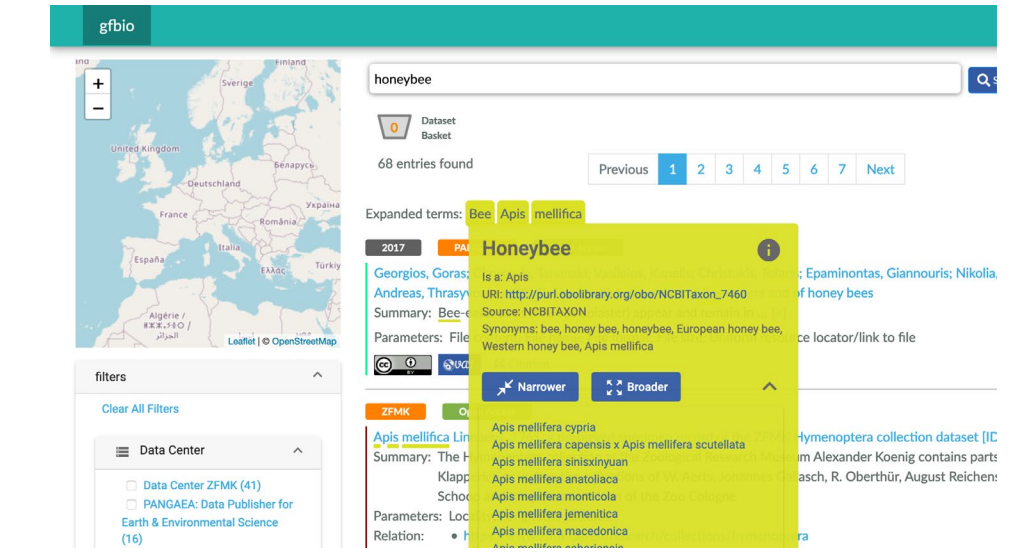
#SEMANTIC USER PROFILES



[ScholarLensViz](#) provides different visualizations for semantic user profiles generated from scholarly publications. Explanations for all profile entries are provided based on techniques from Natural Language Processing and Semantic Web.

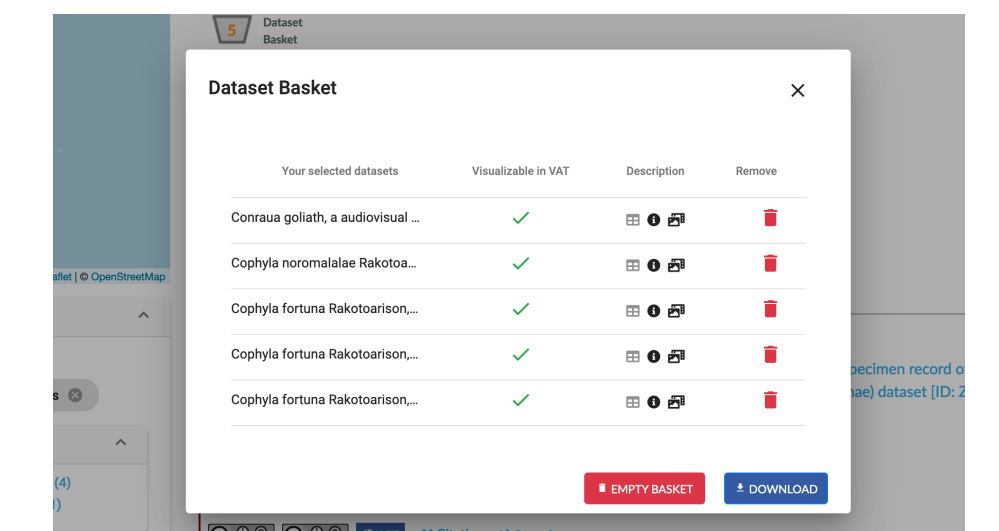


#SEMANTIC SEARCH



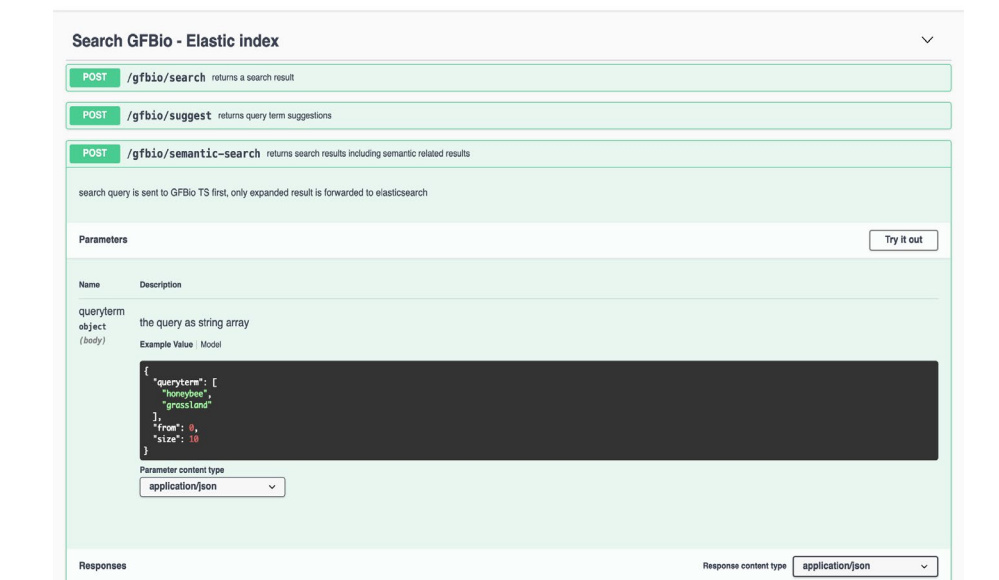
GFBio's [Terminology Service](#) has been integrated to expand query terms on related terms such as synonyms and common names. Explanations and further hierarchical terms are provided on demand.

#DATA BASKET



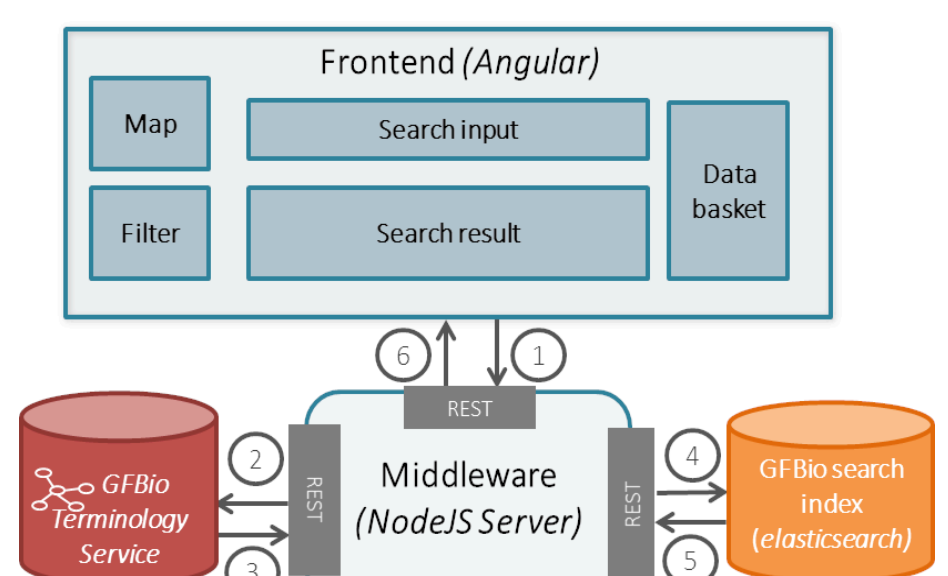
Selected datasets can be collected in a data basket for download or later reuse, e.g., in GFBio's visualization tool - [GeoEngine](#).

#REST API



All search functions are separately available and described with [swagger](#).

#MODULARIZATION



A modular infrastructure allows an easy exchange and reuse of UI components for custom search indexes.

* corresponding authors: felicitas.loeffler|sven.thiel@uni-jena.de