

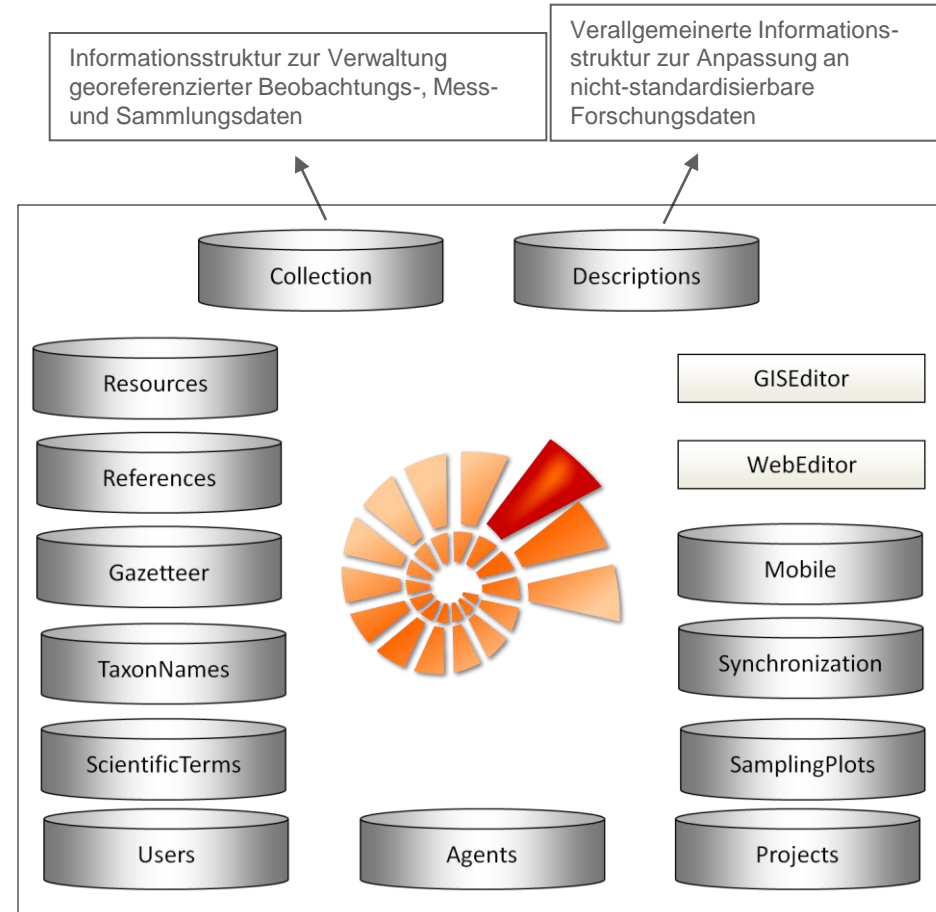
Diversity Workbench

DiversityTaxonNames im GBOL und IBF Context

Dagmar Triebel

Diversity Workbench Framework

- Seit 1999 Modellierung (ER-Diagramme),
und Implementierung
- Datenbank-Komponenten (,Module‘) 14
- *Tabellen 233
- *Datenelemente/-attribute 1.902
- *Relationen-Tabellen 251
- Webschnittstellen/Clients 27
- *Quellcode-Zeilen > 706.567
(in 1.261 Quellcode-Files) (*Stand 12.2011)
- Seit 2007 Workshops für Anwender 22
 - Teilnehmer 195
 - Institutionen 44

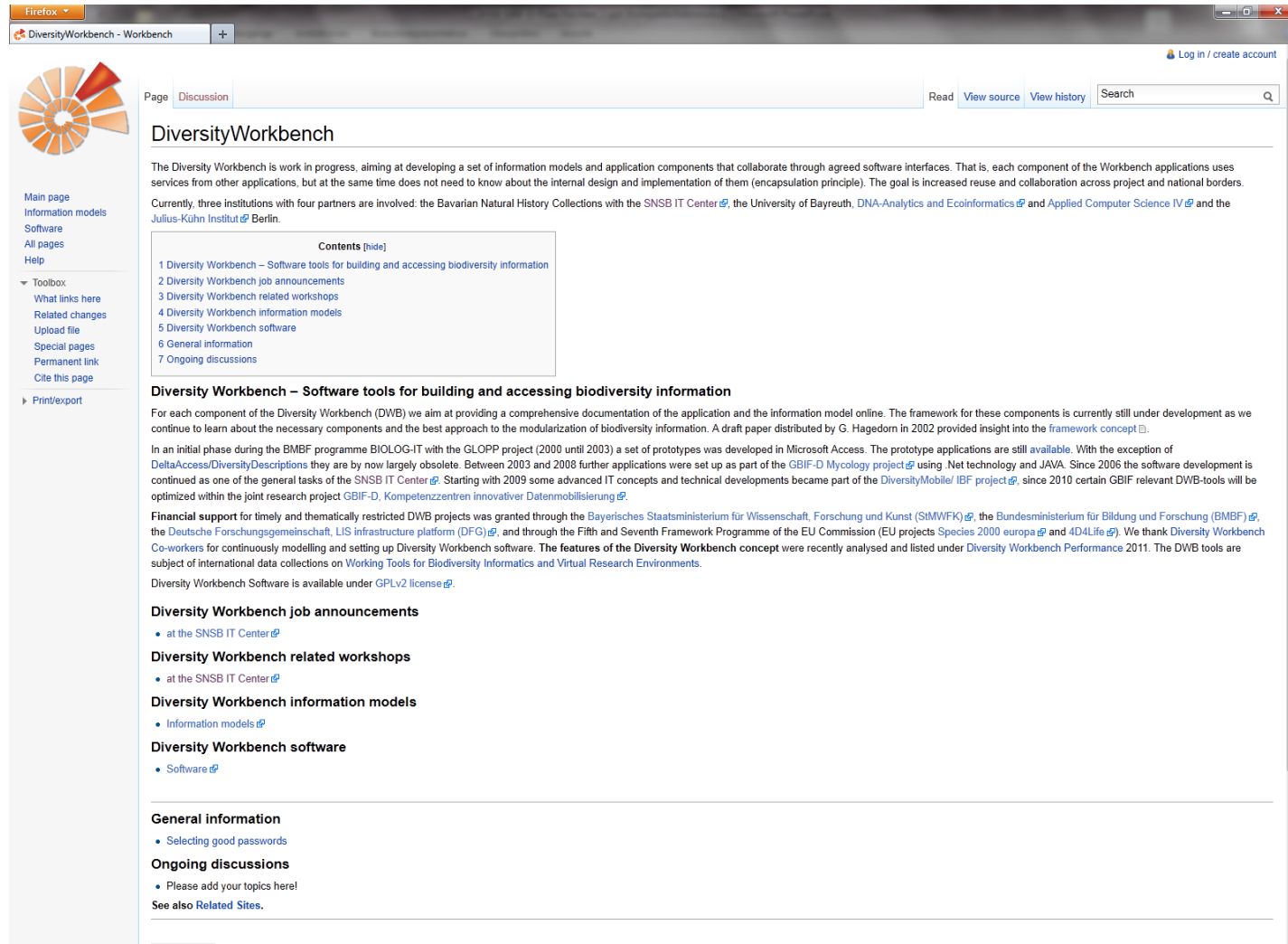


Diversity Workbench – Work in progress

4 Partner

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Software unter GPL Lizenz



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DiversityWorkbench

The Diversity Workbench is work in progress, aiming at developing a set of information models and application components that collaborate through agreed software interfaces. That is, each component of the Workbench applications uses services from other applications, but at the same time does not need to know about the internal design and implementation of them (encapsulation principle). The goal is increased reuse and collaboration across project and national borders. Currently, three institutions with four partners are involved: the Bavarian Natural History Collections with the SNSB IT Center, the University of Bayreuth, DNA-Analytics and Ecoinformatics and Applied Computer Science IV and the Julius-Kühn Institut Berlin.

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1 Diversity Workbench – Software tools for building and accessing biodiversity information
2 Diversity Workbench job announcements
3 Diversity Workbench related workshops
4 Diversity Workbench information models
5 Diversity Workbench software
6 General information
7 Ongoing discussions

Diversity Workbench – Software tools for building and accessing biodiversity information

For each component of the Diversity Workbench (DWB) we aim at providing a comprehensive documentation of the application and the information model online. The framework for these components is currently still under development as we continue to learn about the necessary components and the best approach to the modularization of biodiversity information. A draft paper distributed by G. Hagedorn in 2002 provided insight into the [framework concept](#).

In an initial phase during the BMBF programme BIOLOG-IT with the GLOPP project (2000 until 2003) a set of prototypes was developed in Microsoft Access. The prototype applications are still available. With the exception of [DeltaAccess/DiversityDescriptions](#) they are by now largely obsolete. Between 2003 and 2008 further applications were set up as part of the [GBIF-D Mycology project](#) using .Net technology and JAVA. Since 2006 the software development is continued as one of the general tasks of the SNSB IT Center. Starting with 2009 some advanced IT concepts and technical developments became part of the [DiversityMobile/ IBF project](#), since 2010 certain GBIF relevant DWB-tools will be optimized within the joint research project [GBIF-D, Kompetenzzentren innovativer Datenmobilisierung](#).

Financial support for timely and thematically restricted DWB projects was granted through the [Bayerisches Staatsministerium für Wissenschaft, Forschung und Kunst \(StMWFK\)](#), the [Bundesministerium für Bildung und Forschung \(BMBF\)](#), the [Deutsche Forschungsgemeinschaft](#), [LIS infrastructure platform \(DFG\)](#), and through the Fifth and Seventh Framework Programme of the EU Commission (EU projects [Species 2000 europa](#) and [4D4Life](#)). We thank Diversity Workbench Co-workers for continuously modelling and setting up Diversity Workbench software. The features of the Diversity Workbench concept were recently analysed and listed under [Diversity Workbench Performance 2011](#). The DWB tools are subject of international data collections on [Working Tools for Biodiversity Informatics and Virtual Research Environments](#).

Diversity Workbench Software is available under [GPLv2 license](#).

Diversity Workbench job announcements

- at the [SNSB IT Center](#)

Diversity Workbench related workshops

- at the [SNSB IT Center](#)

Diversity Workbench information models

- [Information models](#)

Diversity Workbench software

- [Software](#)

General information

- [Selecting good passwords](#)

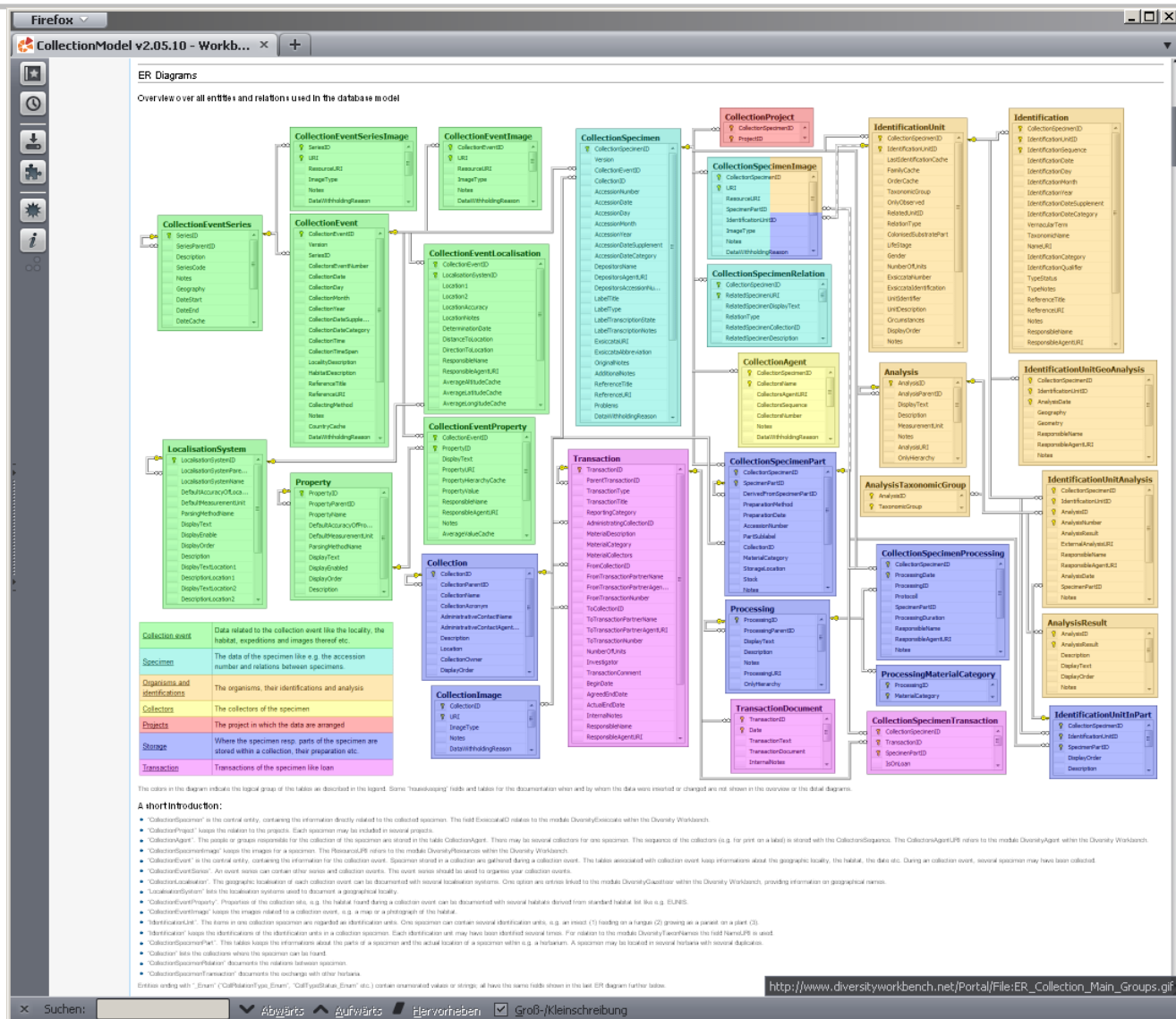
Ongoing discussions

- [Please add your topics here!](#)

See also [Related Sites](#).

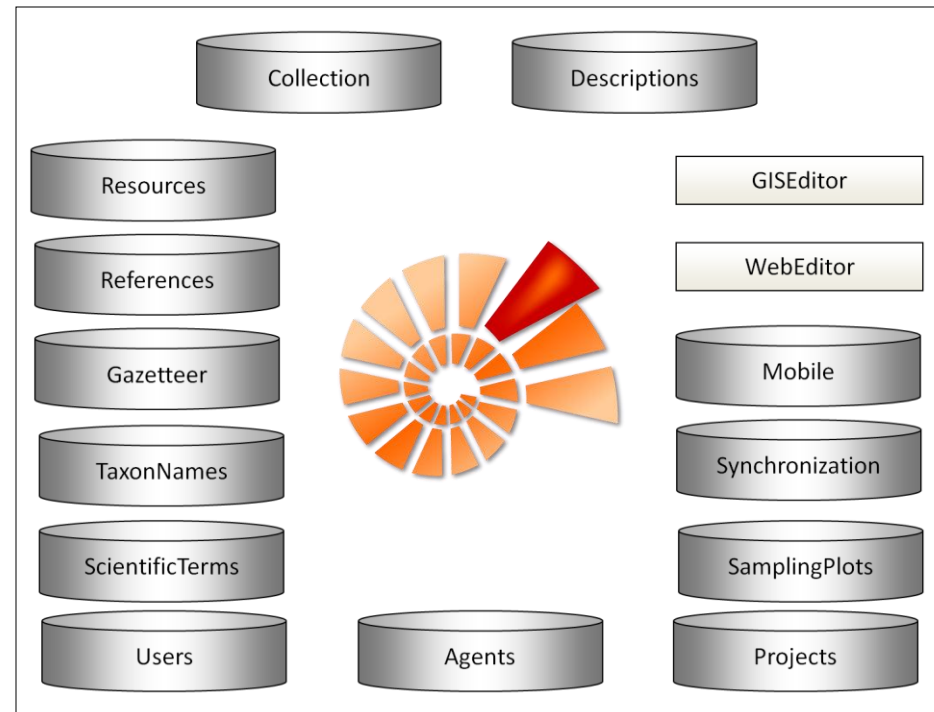
DiversityCollection – ER Diagramm

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Diversity Workbench Framework

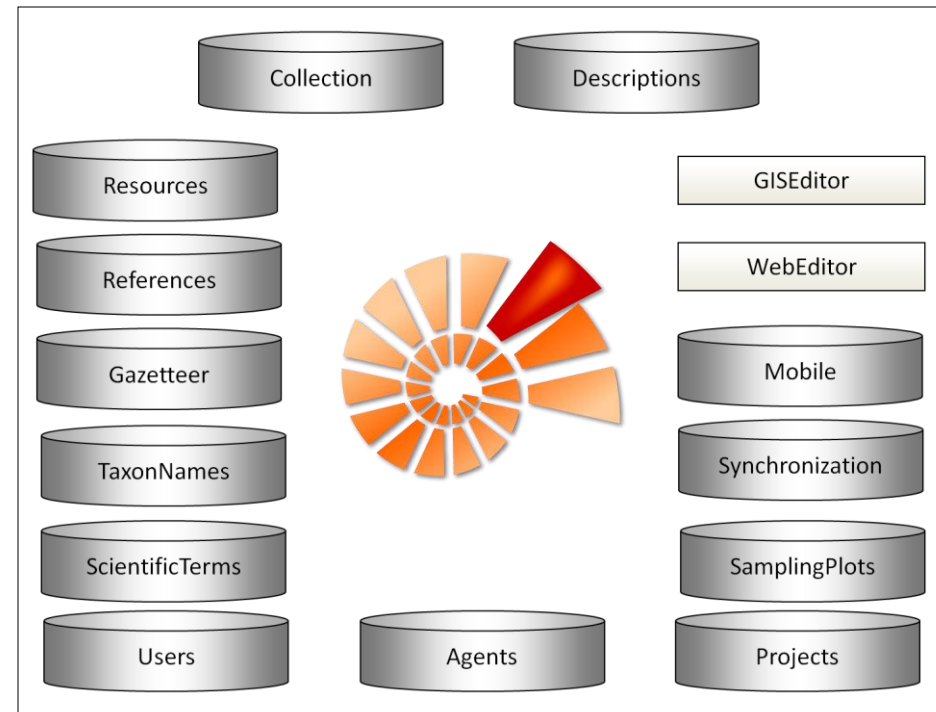
- Business Solution geeignet für Datenzentren
- Direkte Interoperabilität aller Komponenten
- Virtuelle Forschungsumgebung
- Im Einsatz für die Disziplinen
 - Taxonomie und Chemotaxonomie
 - (Molekulare) Ökologie und Organismische Interaktionen
 - Objektmanagement (Sammlungen)
 - Artenmonitoring
 - u. a. m.
- Datensätze aus allen organismischen Großgruppen Pflanzen, Algen, Pilze, Wirbeltiere, Insekten, andere Wirbellose, Fossilien



Diversity Workbench Framework

Virtuelle Forschungsumgebung

- GIS-Funktionalität
- Browser-basierte Schnittstelle (W. Reichert)
- Mobile Anwendungen (T. Weibulat)
- Funktionalitäten im Kontext von Taxonomie und Nomenklatur (K. Bensch)
- Datenmanagement via Rich Clients (M. Weiss)



DiversityWorkbench – Rich Clients

The screenshot displays the DiversityWorkbench software interface, which is a rich client application for managing biological collections. The interface is divided into several windows and panels:

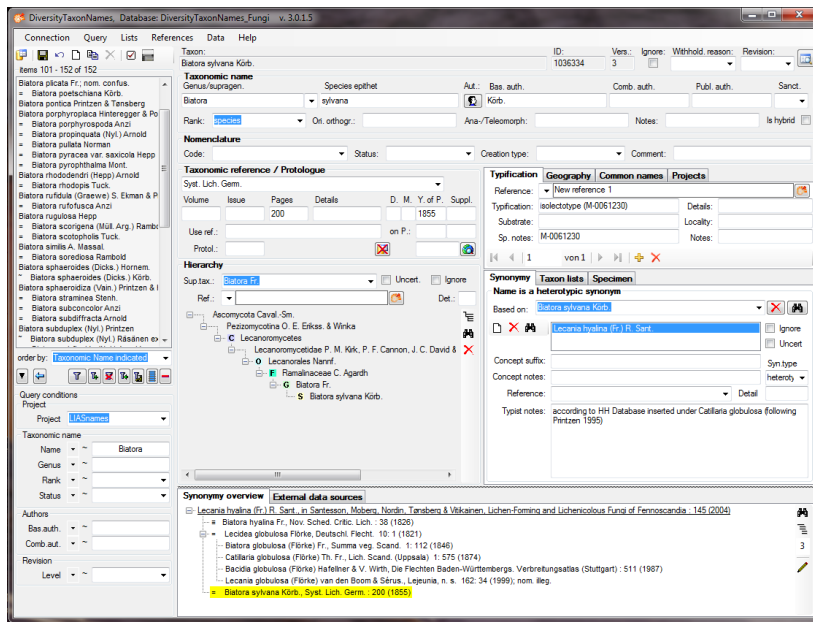
- DiversityCollection v. 3.0.2.6:** The main window showing specimen details for *Ceratotherium simum* (Burchell, 1817). It includes a specimen image and a list of displayed fields such as Collection event, Date, Location, and Specimen.
- DiversityScientificTerms v. 3.0.0.0:** A window for managing scientific terms. It shows a list of terms (e.g., Givetan, Gorstian, Guadelupian) and a detailed view for the term "Induan" with its description and broader terms.
- DiversityAgents v. 3.0.0.3:** A window for managing agents. It displays a list of agents and a detailed view for "Hertel, Hannes, Prof. Dr." with fields for Title, Given name, Surname, and other details.
- DiversityTaxonNames, Database: DiversityTaxonNames-Fungi v. 3.0.1.5:** A window for managing taxonomic names. It shows a list of names and a detailed view for *Biatora sylvana* Korb., including its taxonomic name, rank, and references.

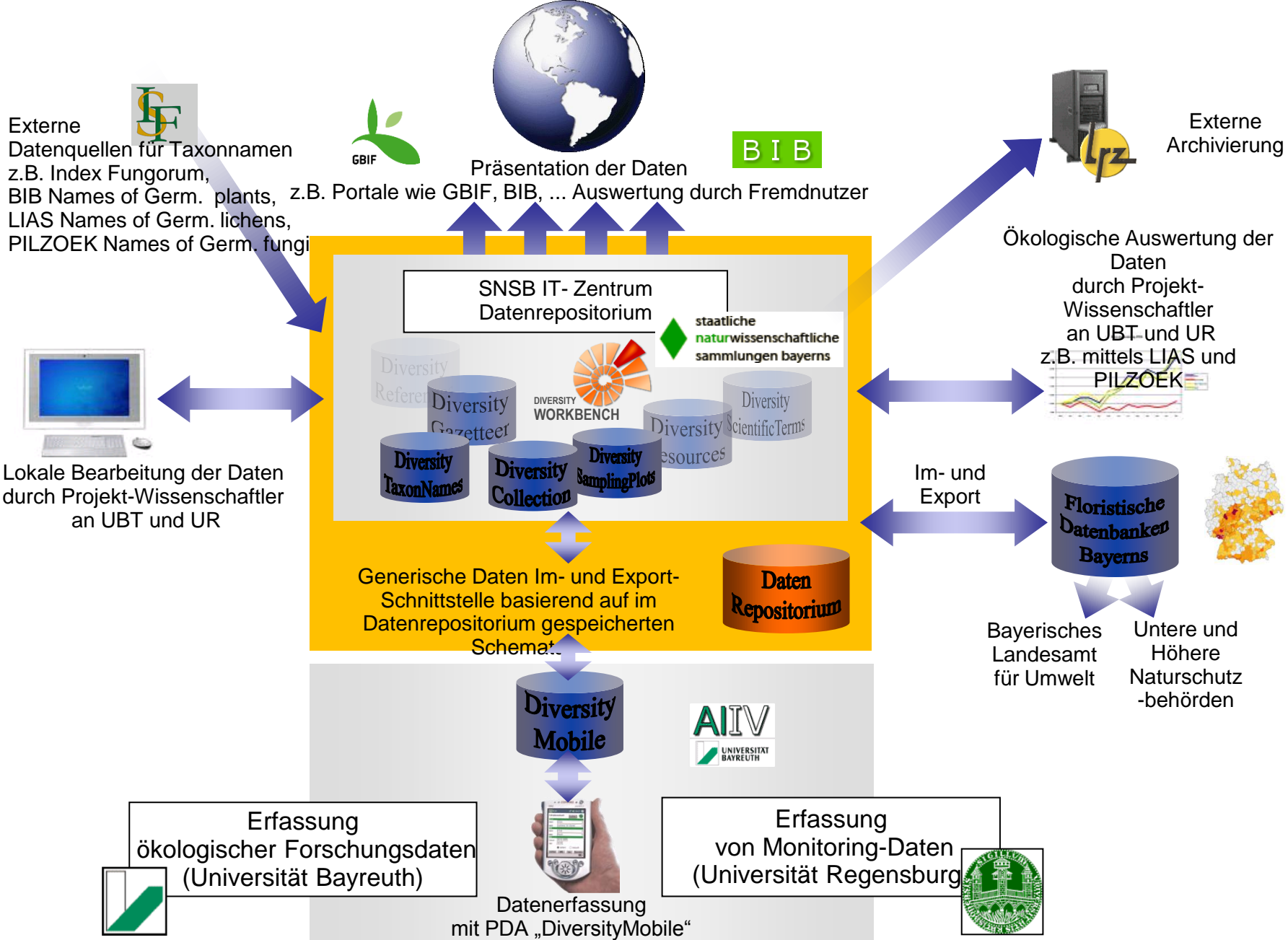
The interface also includes a table of specimens with columns for Accession number, Collection year, Country, and Locality. The table lists various specimens, including those from Germany and China, with their respective collection years and localities.

DTN im GBOL und IBF-Kontext

Thema heute: Management von Taxon- und Namenslisten sowie Klassifikationen im regionalen oder thematischen Kontext

IBF bzw.





Workshops



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