



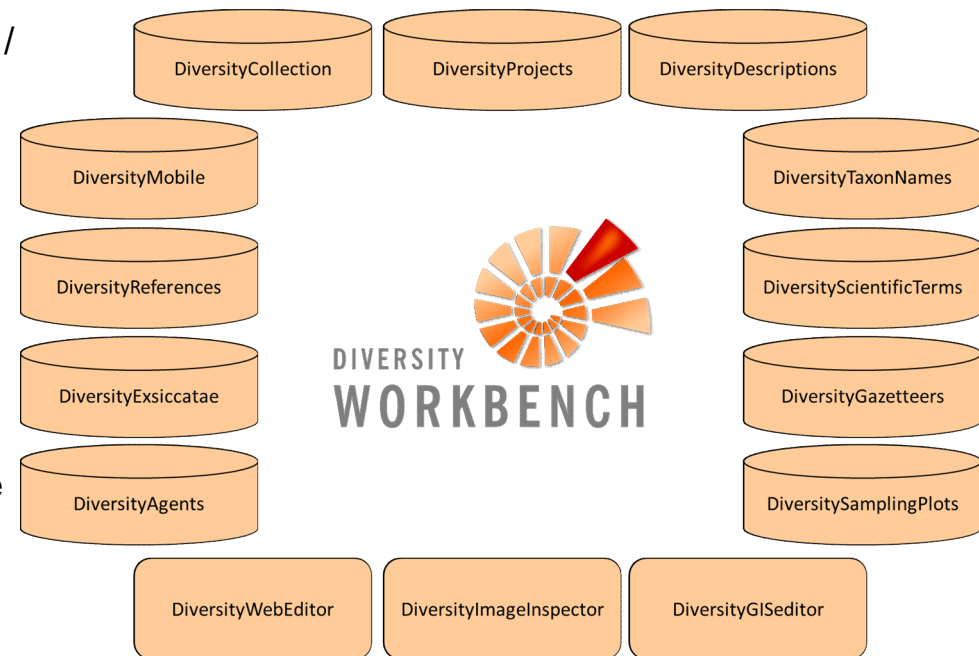
Diversity Workbench

Einführung

Dagmar Triebel

DWB – System aus SQL-Datenbanken

- Datenmanagement-System für Datenzentren / naturwissenschaftliche Sammlungen, aber auch für einzelne Forscher und große Forschungsprojekte
- Diversitätsdatensätze aus Bio-und Geowissenschaften; aus allen organismischen Großgruppen: Pflanzen, Algen, Pilze, Wirbeltiere, Insekten, Fossilien...
- Monitoringdaten, ökologische und molekulare Daten
- Datenbanken nach Datendomänen
- Direkte Interoperabilität von 11 Datenbank-Komponenten und 3 weiteren Tools



DWB – Open Source Code Repositorien

- Quellcode in 2 Code-Repositorien
- Quellcode-Zeilen >1.4 Mill.
(in 3.080 Quellcode-Dateien)
(Status 10.2016)

z. Zt. 4 Entwickler an den SNSB

Angepasste Services werden derzeit an
der UBT, SMNK und ZFMK
entwickelt

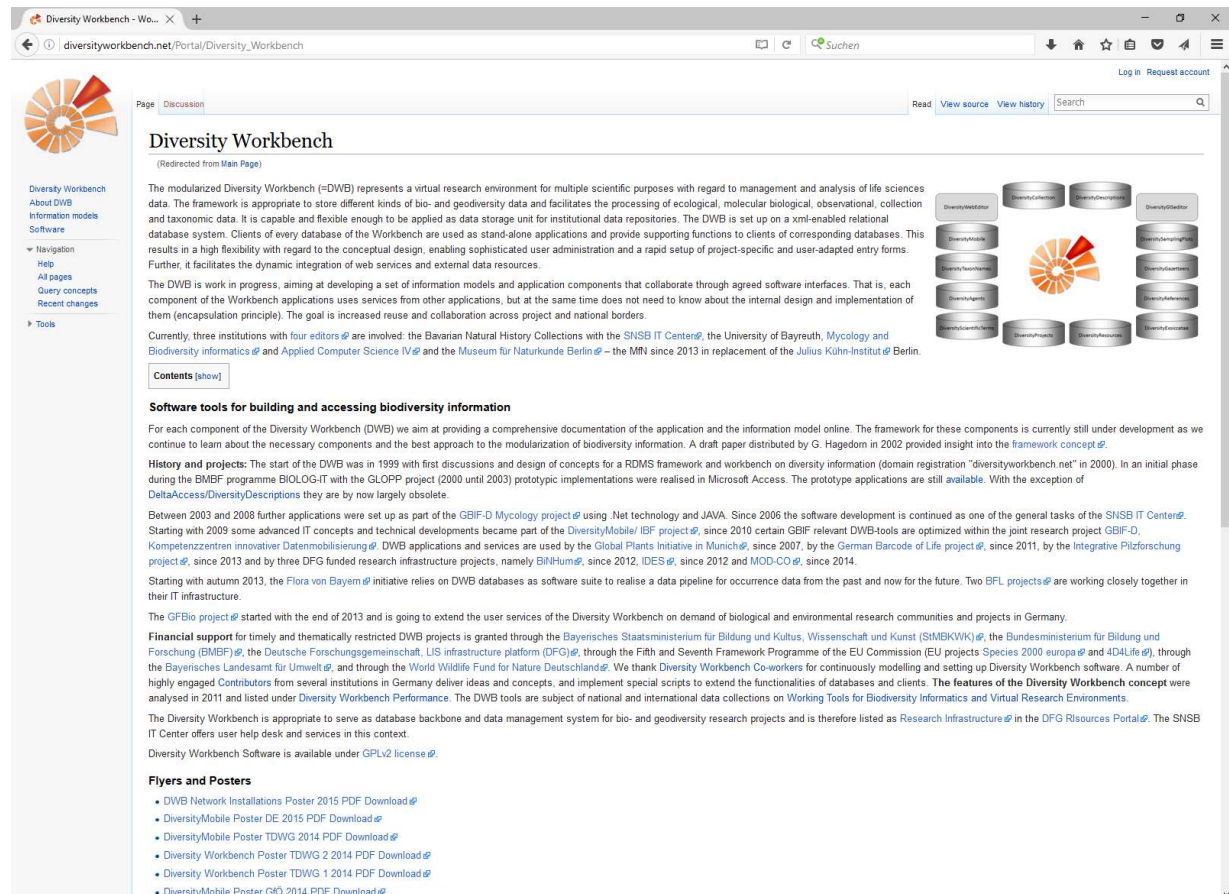
The image displays two overlapping browser windows. The top window shows a Subversion repository page for 'DiversityWorkbench: Developer Tools - Subversion' at the URL 'svn.snsb.info/repos/Diversit'. The page title is 'DiversityWorkbench — Revision 22' and the current directory is '/trunk'. A list of subdirectories is visible, including '[Parent Directory]', '\$RECYCLE.BIN/', 'DiversityAgents/', 'DiversityCollection/', 'DiversityDescriptions/', 'DiversityExsiccatae/', 'DiversityGazetteer/', 'DiversityImageInspector/', 'DiversityMaintenance/', 'DiversityMobile/', 'DiversityProjects/', 'DiversityReferences/', 'DiversitySamplingPlots/', 'DiversityScientificTerms/', 'DiversitySynchronization/', 'DiversityTaxonNames/', 'DiversityWorkbench/', 'DiversityWorkbench4/', 'HelpProjects/', 'HelpProvider/', 'XMLParser/', and 'DiversityWorkbench.sln'.

The bottom window shows the GitHub repository page for 'Staatliche Naturwissenschaftliche Sammlungen Bayerns'. The page lists several repositories with their respective languages, stars, and update dates:

- DWB-Contrib**: XSLT, 0 stars, updated 12 days ago. Description: DWB-Contrib Schemes and files as contribution for DWB clients: e. g., to organise import, export and label print.
- DiversityMobile2**: JavaScript, 0 stars, updated on 17 Dec 2015. Description: Prototype of a cross-platform application using the Diversity REST API.
- DiversityMobile**: C#, 2 stars, updated on 4 Sep 2015. Description: DiversityMobile Client Application for Windows Phone 7/8 Phones.
- DiversityService**: C#, 0 stars, updated on 27 Aug 2015. Description: SOAP based API for DiversityCollection. Currently used by DiversityMobile client application.
- DiversityAPI**: C#, 0 stars, updated on 20 Aug 2014. Description: REST Service API for DiversityCollection. To be used by DiversityMobile client application.

DWB – Dokumentation online

- www.diversityworkbench.net



The screenshot shows the Diversity Workbench website. The main heading is "Diversity Workbench" with a sub-note "(Redirected from Main Page)". The page content includes a detailed description of the modularized system, its purpose in managing and analyzing life sciences data, and its technical architecture. A diagram on the right side of the page illustrates the modularized system components, including modules like DiversityWebEditor, DiversityCollector, DiversityDescriptions, DiversitySelector, DiversityMobile, DiversityAccess, DiversityAgents, DiversityReports, DiversityProjects, and DiversityResources. The page also features a navigation menu on the left, a search bar at the top right, and a list of "Flyers and Posters" at the bottom.

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.

History and projects: The start of the DWB was in 1999 with first discussions and design of concepts for a RDMS framework and workbench on diversity information (domain registration "diversityworkbench.net" in 2000). In an initial phase during the BMBF programme BIOLOG-IT with the GLOPP project (2000 until 2003) prototypic implementations were realised 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 are optimized within the joint research project GBIF-D. Kompetenzzentren innovativer Datenmobilisierung. DWB applications and services are used by the Global Plants Initiative in Munich, since 2007, by the German Barcode of Life project, since 2011, by the Integrative Pilzforschung project, since 2013 and by three DFG funded research infrastructure projects, namely BINHum, since 2012, IDEs, since 2012 and MOD-CO, since 2014.

Starting with autumn 2013, the Flora von Bayern initiative relies on DWB databases as software suite to realise a data pipeline for occurrence data from the past and now for the future. Two BFL projects are working closely together in their IT infrastructure.

The GFBio project started with the end of 2013 and is going to extend the user services of the Diversity Workbench on demand of biological and environmental research communities and projects in Germany.

Financial support for timely and thematically restricted DWB projects is granted through the Bayerisches Staatsministerium für Bildung und Kultus, Wissenschaft und Kunst (StMBKWK), the Bundesministerium für Bildung und Forschung (BMBF), the Deutsche Forschungsgemeinschaft, LIS infrastructure platform (DFG), through the Fifth and Seventh Framework Programme of the EU Commission (EU projects Species 2000 Europa and 4ChLife), through the Bayerisches Landesamt für Umwelt, and through the World Wildlife Fund for Nature Deutschland. We thank Diversity Workbench Co-workers for continuously modelling and setting up Diversity Workbench software. A number of highly engaged Contributors from several institutions in Germany deliver ideas and concepts, and implement special scripts to extend the functionalities of databases and clients. **The features of the Diversity Workbench concept** were analysed in 2011 and listed under Diversity Workbench Performance. The DWB tools are subject of national and international data collections on Working Tools for Biodiversity Informatics and Virtual Research Environments.

The Diversity Workbench is appropriate to serve as database backbone and data management system for bio- and geodiversity research projects and is therefore listed as Research Infrastructure in the DFG Resources Portal. The SNSB IT Center offers user help desk and services in this context.

Diversity Workbench Software is available under GPLv2 license.

Flyers and Posters

- DWB Network Installations Poster 2015 PDF Download
- DiversityMobile Poster DE 2015 PDF Download
- DiversityMobile Poster TDWG 2014 PDF Download
- Diversity Workbench Poster TDWG 2 2014 PDF Download
- Diversity Workbench Poster TDWG 1 2014 PDF Download
- DiversityMobile Poster GIO 2014 PDF Download

DWB – Dokumentation online

- www.diversityworkbench.net
- Download von Software
- Technische Dokumentation

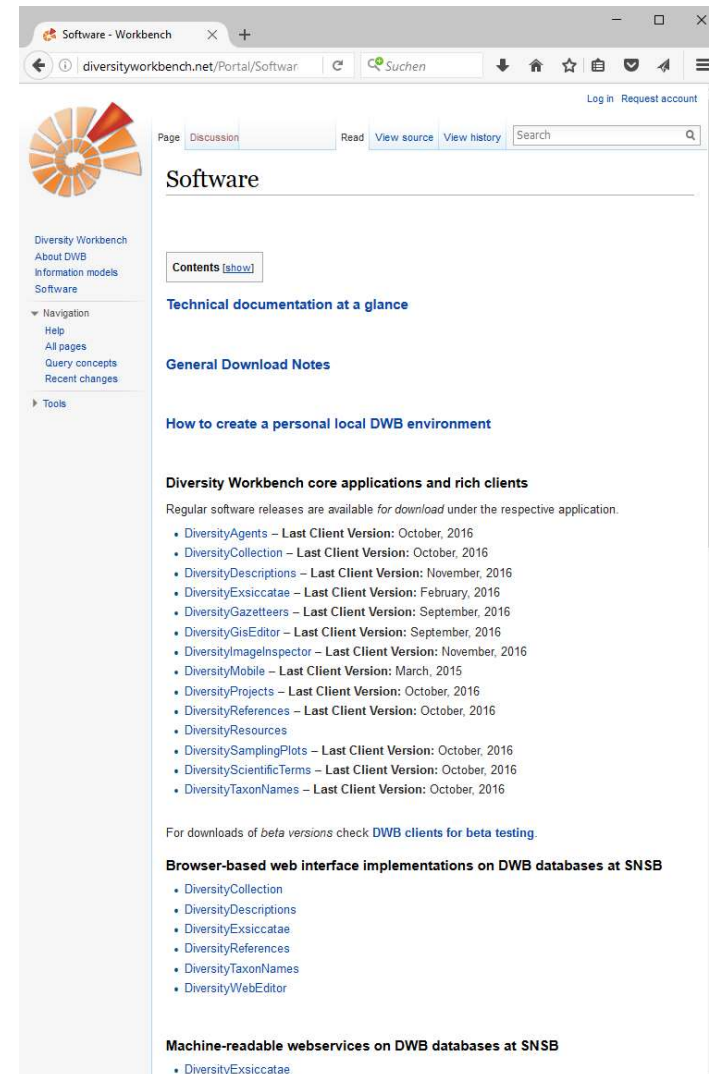
Technical documentation for the core applications and rich clients

Name of the database framework	Diversity Workbench (DWB)
DWB contact persons	T. Weibulat, D. Triebel at the SNSB IT Center ↗
Operating system server	MS Windows Server 2008 R2, 2012 R2
Database system	MS SQL-Server 2008 R2 to MS SQL-Server 2014 ↗
Clients	C# desktop applications (local clients) (and web APIs for various projects)
Operating system local clients	MS Windows XP (not recommended), MS Windows 7 to MS Windows 10
GIS functionalities	GIS-Editor , management of geometry and geography data
GUIs for data import	Import-Wizards, txt, CSV, xml in various schemes, xml/xslt, shapes in ESRI-Format
GUIs for data export/ reports	Export-Wizards, txt, CSV, xml in various schemes, xml/xslt, shapes in ESRI-Format
GUI language	default: english (multilingual through translation tables)
Open access	DWB software download
Open source	DWB SVN code repository ↗ , DiversityMobile GitHub repository ↗
Licenses	GPL v.2
Information models online	DWB data models
State of development	since 1999, ongoing
Code language, developer platform	C#, .Net Framework 3.5
User manuals	under DWB user manuals and with the download of the respective applications in the DWB Wiki
Training	DWB workshops ↗ for users and database administrators since 2007

DWB – Dokumentation online

- www.diversityworkbench.net
- Download von Software

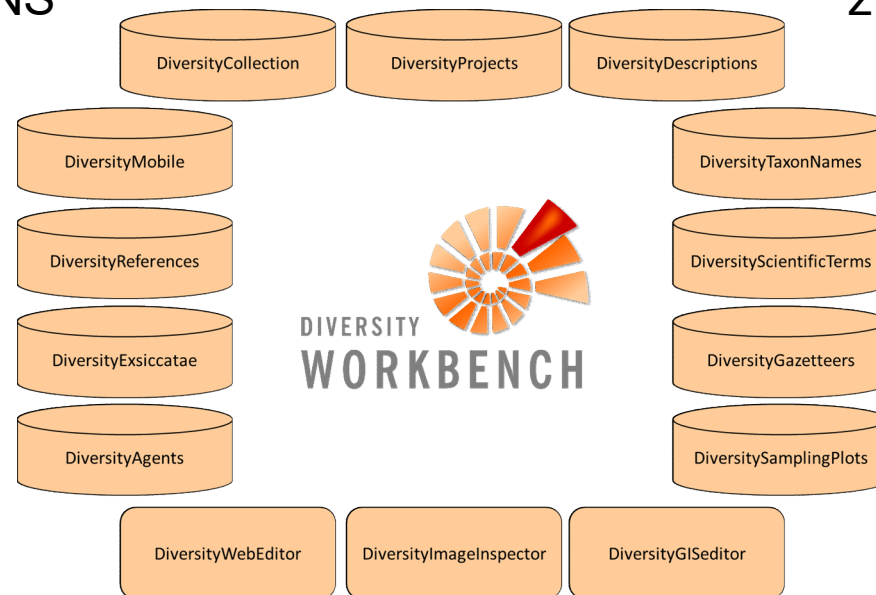
Mailingliste zur Info über neue Software-Versionen





The screenshot shows a web browser window displaying the 'Software' page of the Diversity Workbench documentation. The page features a navigation menu on the left with links for 'About DWB', 'Information models', 'Software', 'Navigation', 'Help', and 'Tools'. The main content area is titled 'Software' and includes a search bar, a 'Contents [show]' button, and several sections of technical documentation. The 'General Download Notes' section lists various core applications and their last client versions, such as DiversityAgents (October 2016), DiversityCollection (October 2016), and DiversityDescriptions (November 2016). It also mentions browser-based web interface implementations and machine-readable webservice endpoints available at SNSB.

DWB-Anwender mit DB-Installationen (soweit bekannt)

- Installationen an den SNSB inkl. ZSM z. Zt. 200 Anwender
(diverse VM und Instanzen; inkl. Datenbank(DB)-Hosting für rund 25 Partnerorganisationen; v.a. Universitäten)
- Installationen am ZFMK z. Zt. 50 Anwender
- Installation am SMNK z. Zt. 20 Anwender
- Installation am SMNS z. Zt. 20 Anwender



DFG Resources: DWB empfohlen



[Leitseite](#) | [Katalog](#) | [Suche](#) | [Über RIsources](#)

[→ Zurück](#)

Diversity Workbench – Software components for building and accessing biodiversity information (DWB)

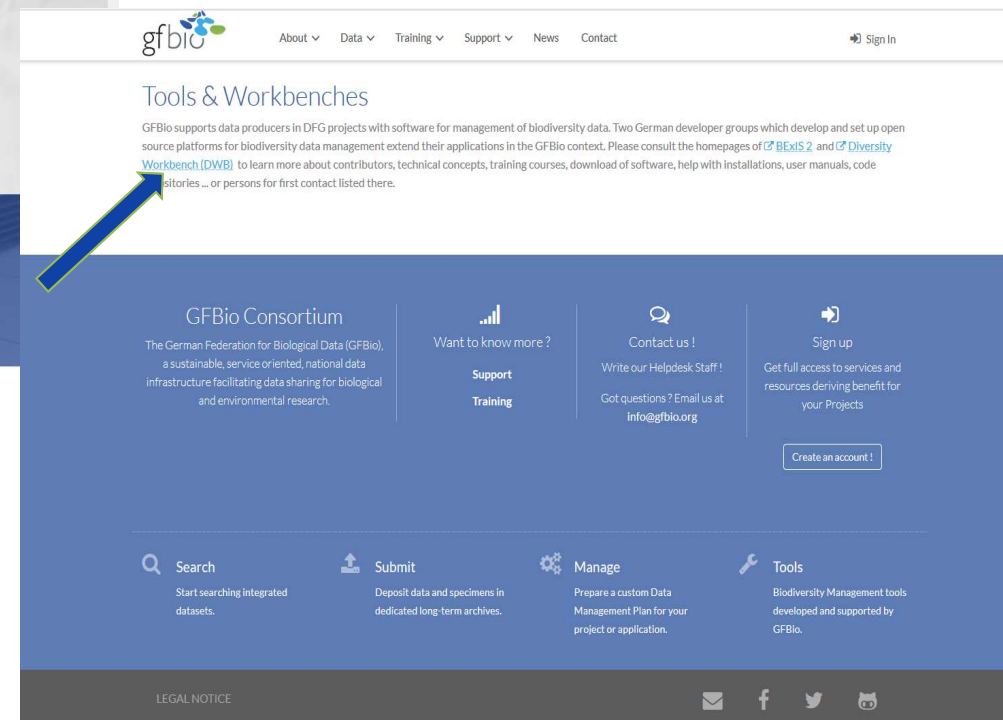
Das Projekt Diversity Workbench (=DWB) wurde in 2000 gestartet und wird kontinuierlich fortgesetzt. Basierend auf dem DWB Konzept werden SQL-Datenbanken und Datenbankschnittstellen entwickelt, um sämtliche Typen von georeferenzierten quantitativen und qualitativen Beobachtungs-, Sammlungs- und Messdaten aus den Bereichen Bio- und Geodiversitätsforschung und Ökologie zu verwalten. Dazu wird ein modularisiertes Komponenten-Framework zur Datengenerierung, -erhaltung und -prozessierung aufgebaut (12 eigenständige, interoperable Datenbanken, jeweils mit Rich-Clients zum Datenmanagement sowie browserbasierten Anwender-Schnittstellen, s.u. www.diversityworkbench.net/Portal/Diversity_Workbench_Performance und Apps für Smartphones). Der DWB Namensraum umfasst rund 2.000 Elemente. ER-Modelle zu den einzelnen Entwicklungen werden in regelmäßigen Abständen publiziert. Die Software steht als open source-Entwicklung zum download bereit. Neben den unten genannten Trägern agiert das Julius Kühn-Institut Berlin http://www.jki.bund.de/nn_813794/ als weiterer Partner.

Adresse: Menzinger Straße 67
80638 München
Bayern
Deutschland [↗ Zur Webseite](#)

Träger

Staatliche Naturwissenschaftliche Sammlungen Bayerns, SNSB IT-Zentrum Menzinger Straße 67 80638 München Bayern Deutschland ↗ http://www.snsb.info/	Universität Bayreuth, DNA-Analytik und Ökoinformatik Geb. NWI, Universitätsstraße 30 95447 Bayreuth Bayern Deutschland ↗ http://www.daneco.uni-bayreuth.de
	Universität Bayreuth, Lehrstuhl für Angewandte Informatik IV Datenbanken und Informationssysteme Universitätsstraße 30 95447 Bayreuth Bayern Deutschland

GFBio: DWB empfohlen



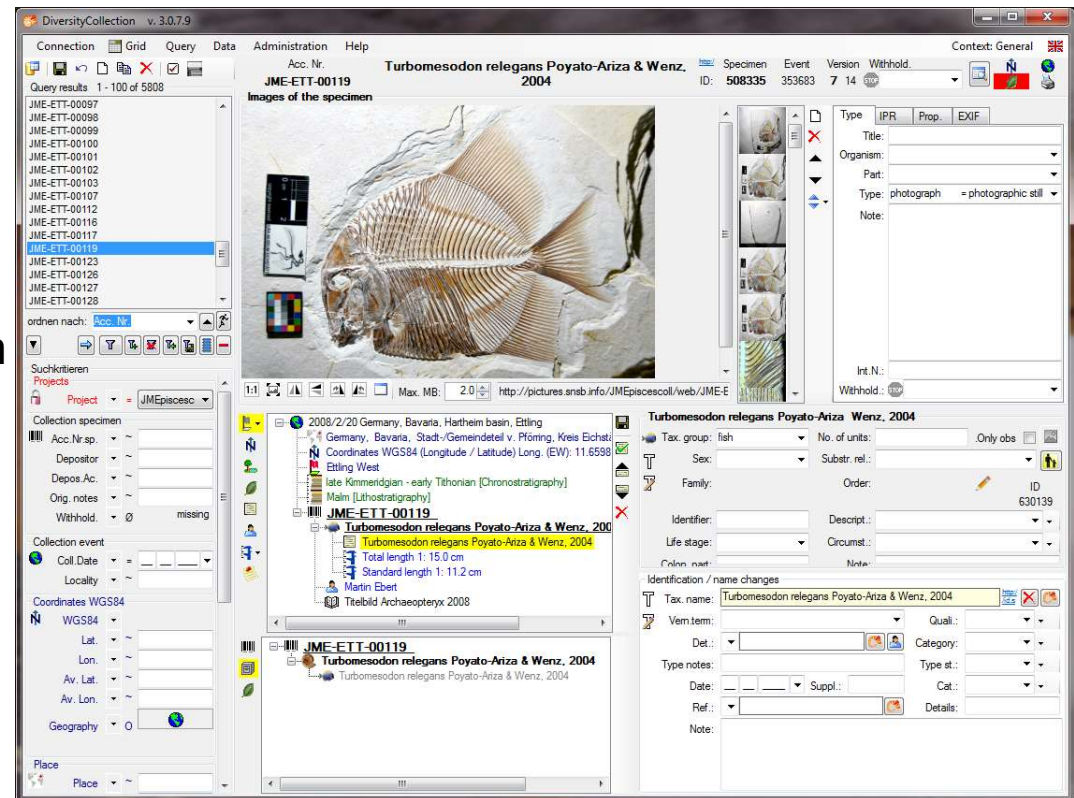
Diversity Workbench – Schnittstellen zum Datenmanagement

The screenshot displays the Diversity Workbench interface with several overlapping windows:

- DiversityCollection v. 3.0.3.6:** Shows specimen data for *Ceratotherium simum* (Burchell, 1817). A table lists accession numbers (e.g., SAPM-MA-00129 to SAPM-MA-00152), collection years (1989-1993), countries (Germany, South Africa, China), and localities (e.g., Indusium, Jura, Jurassic).
- DiversityScientificTerms v. 3.0.0.0:** A hierarchical tree structure for scientific terms, with 'Indusium' selected. It includes fields for 'Terminology', 'Chronostratigraphy', and 'ID'.
- DiversityAgents v. 3.0.0.3:** Agent information for 'Hertel, Hannes, Prof. Dr.', including title, given name, and affiliation.
- DiversityTaxonNames, Database: DiversityTaxonNames_Fungi v. 3.0.1.5:** Taxonomic details for *Biatora sylvana* Korb. It includes taxonomic name, nomenclature, taxonomic reference (Syst. Lich. Germ.), and a synonymy overview listing various historical names and their authors.

DiversityCollection

- Management von Beobachtungs- und Sammlungsdaten
 - Ereignisse, Expeditionen
 - Experimente und Analysen
 - Administration von Objekten (Transfer, Inventarisierung)
 - Präparation und Lagerung von Objekten
 - Verwaltung von Multimediaobjekten
- Druckoptionen: Reporte, Etiketten
- Erzeugung von Verbreitungskarten



Portale mit DWB Daten, dynamischer Datenfluss

The image displays three overlapping web browser windows illustrating data portals and dynamic data flow:

- GBIF.org (Data Publisher - Staatliche ...)**: Shows the interface for publishing data from 'Staatliche Naturwissenschaften Bayern'. It includes a search bar, navigation tabs (Information, Data publish), and a list of data entries with details like 'FULL TITLE', 'DESCRIPTION', and 'TECHNICAL CONTACT'.
- BiNH Portal (www.binhum.net)**: A biodiversity portal for 'Bayernflora'. It features a search bar, a map of Bavaria, and a list of results. The 'Results filter' section includes filters for 'Institution: M', 'Country: Afghanistan', and 'Remove all filters'. The 'Additional Filter' section lists 'Scientific name', 'Genus', 'Country', 'Type status', 'Collector', 'Institution', and 'Collection'. A sidebar menu includes 'Startseite', 'Aktuelles', 'Veranstaltungen', 'Das Wiki', 'Mitarbeit', 'Projekte', 'Forum', 'Quiz', 'Bestimmungshilfen', 'Verbreitungskarten', 'Pflanzensteckbriefe', 'Datenerfassung', 'Datenbereitstellung', 'Taxonbezogene Daten', 'Basisfachdaten', 'AG Flora von Bayern', 'Dokumente', 'Geschichte', 'Intern', 'Links', 'Archiv', and 'Hilfe'. A 'Wiki-Werkzeuge' section includes 'Links auf diese Seite', 'Änderungen an verlinkten Seiten', 'Datei hochladen', 'Spezialseiten', and 'Druckversion'.
- GFBio website - home**: A search portal for 'Gagea villosa'. It features a search bar, a world map, and search results. The search results include 'Gagea villosa (M. Bieb.) Sweet, a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset [ID: 32850962488]' and 'Gagea villosa (M. Bieb.) Sweet, a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset [ID: 32851962489]'. Each result includes a 'Data Center' (Data Center SNSB) and a 'Summary' (http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%80_occurrence_data_online). A 'Data Description' link is provided for each result.

DiversityTaxonNames

- Management von taxonomischen Namen, verknüpfter Information
- Management von Synonymen, akzeptierten Namen, Klassifikationen, Typifizierung and Volksnamen
- Erstellung von Taxonreferenzlisten, Checklisten mit z. B. geographischen, naturräumlichen oder Naturschutzkategorien

The screenshot displays the DiversityTaxonNames software interface, version 3.0.1.5, showing taxonomic data for *Biatora sylvana* Korb. The interface is divided into several panels:

- Left Panel:** A list of taxonomic entries, including *Biatora plicata* Fr., *Biatora postschiana* Korb., *Biatora pontica* Printzen & Tensberg, *Biatora porphyroplaca* Hinteregger & Po, *Biatora porphyrospoda* Anzi, *Biatora propinqua* (Nyl.) Arnold, *Biatora pullata* Norman, *Biatora pyracea* var. *saxicola* Hepp, *Biatora pyrophthalma* Mont., *Biatora rhododendri* (Hepp) Arnold, *Biatora rhodopis* Tuck., *Biatora rufidula* (Graewe) S. Ekman & P., *Biatora rufotusca* Anzi, *Biatora rugulosa* Hepp, *Biatora scorigena* (Müll. Arg.) Ramb., *Biatora scotopholis* Tuck., *Biatora similis* A. Massal., *Biatora sorediosa* Rambold, *Biatora sphaeroides* (Dicks.) Hornem., *Biatora sphaeroides* (Dicks.) Korb., *Biatora sphaeroidiza* (Vain.) Printzen & I., *Biatora straminea* Stenh., *Biatora subconcolor* Anzi, *Biatora subdiffracta* Arnold, *Biatora subduplex* (Nyl.) Printzen, and *Biatora subduplex* (Nyl.) Räsänen ex.
- Top Panel:** Taxon details for *Biatora sylvana* Korb., including ID (1036334), Version (3), and various fields for taxonomic name, rank (species), and nomenclature.
- Center Panel:** Hierarchy view showing the taxonomic classification of *Biatora sylvana* Korb. within the Ascomycota phylum, including the classes Lecanoromycetes and Lecanorales, and the order Lecanorales.
- Right Panel:** Typification and Synonymy sections. The Typification section shows the reference (New reference 1), type (isotype (M-0061230)), and substrate (M-0061230). The Synonymy section shows that *Biatora sylvana* Korb. is a heterotypic synonym of *Lecania hyalina* (Fr.) R. Sant.
- Bottom Panel:** Synonymy overview and external data sources, listing various references for *Lecania hyalina* and *Biatora sylvana*.

Webdienste – DiversityTaxonNames




- Eine Reihe Installationen am SNSB IT-Zentrum: intern und auf TNT Server „DWB Cloud“ stellen Inhalte bereit
- Inhalte über Web Services und GUIs bereitgestellt



									n.bailly@cgjar.org
About "Taxon list of Pisces and Cyclostoma from Germany compiled in the context of the GBOL project"	TaxRef_GBOL_Pisces_DE (927)	Pisces et Cyclostomata	Germany	118	-; +	-	Dr. Matthias Geiger	ZFMK; GBOL	Kottelat & Freyhof (2007)
About "Taxon list of Reptilia from Germany compiled in the context of the GBOL project"	TaxRef_GBOL_Reptilia_DE (925)	Reptilia	Germany	16	-; +	-	Dr. Dennis Rödder	ZFMK; GBOL	Uetz (2012)

DTN taxon lists - Fungi and Lichens, Fungal-like organisms

List title	List code	Taxonomic or biotic group	Region	Taxon names below genus level (number)	Synonyms (number); Higher classification above subgenus/ genus level (+/-)	Vernacular names - DE (number)	List curator(s)	Organisation(s) and /or project(s) supporting curation activities	Publications ↗
About "Taxon list of fungi and fungal-like organisms from Germany compiled by the DGIN"	TaxRef_DGFM_Fungi_DE (1140)	Fungi (including lichens, downy mildews and myxomycetes)	Germany	29 680	11 766; +	3 664	Frank Dämmrich	DGFM	Index Fungorum online; Kirk et al. (2008); MycoBank online
Taxon list of Pucciniales from Germany compiled in the context of the GBOL project	TaxRef_GBOL_Pucciniales_DE	Pucciniales	Germany				Dr. Markus Scholler	SMNK; GBOL	Kirk et al. (2008); Scholler et al. (2011)
Taxon list of lichenicolous fungi from Germany compiled in the context of the LIAS project	TaxRef_LIAS_LichFungi_DE	Lichen-associated fungi	Germany	826		4	Wolfgang von Brackel, Dr. Dagmar Triebel, Dr. Konstanze Bensch	SNSB-BSM; LIAS	Wirth et al. 2011; LIASnames

Regionalised and Domain-specific Taxon Lists

The DWB REST Webservice for Taxon Lists is part of a Diversity Workbench (DWB) services network. It is delivering basic information on taxon names in use, synonyms, classification and German vernacular names of a number of groups of animals, fungi and plants.

The current focus is on domain-specific lists (checklists, taxon reference lists, red lists) from Germany under active curation by experts on taxonomy or floristics and faunistics. Each regionalised and domain-specific taxon list has its own history and objectives, is managed completely separately and has its own hierarchical classification. The DiversityTaxonNames (DTN) data resources accessed by the REST API may include additional taxon-related data useful, e. g., for regional nature conservation agencies and environmental projects. This information might be mobilised in a next step.

For more information please refer to [DTN_Taxon_Lists_Services](#)

Regionalisierte und domän-spezifische Taxonlisten

Der DWB REST Webservice für Taxon Listen ist Teil eines Netzwerkes aus Diversity Workbench (DWB) Diensten. Er liefert Basisinformation zu anerkannten Taxonnamen, Synonymen, Klassifikationen und deutsche Volksnamen für eine Anzahl von Tier-, Pilz- und Pflanzengruppen.

Portale – Diversity Taxon Names

GBIF Global Biodiversity Information Facility

Checklist dataset published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

LIAS names

A Database with Names of Lichens, Lichenicolous Fungi and Non-Lichenized Ascomycetes

Search Results

Entered Name: Lecano

Name ID

Accepted Name

Synonyms

Classification

Details zur Datenbank: A Global Information System for Lichenized and Non-Lichenized Ascomycetes

Datenbank Qualitätskriterien

- Umfang: Global
- Vollständigkeit: 65%
- Vertrauenswürdigkeit der Checkliste: ★★★★★

Voller Name: A Global Information System for Lichenized and Non-Lichenized Ascomycetes

Namensabkürzung: LIAS

Version: Dec 2015

Datum der Veröffentlichung: 2015-12-01

Autoren/ Editoren: Rambold G. (lead editor; for detailed information see <http://liaslight.lias.net/About/Impressum.html> and <http://liasnames.lias.net/About/Impressum.html>)

Taxonomische Abdeckung: Fungi - Ascomycota - Eurotiomycetes - Pyrenulales, Verrucariales, Mycolobolales
Fungi - Ascomycota - Dothideomycetes - Arthopyrenia, Eopyrenula, Lichenothelia, Mycoporum, Leptorhaphis, Naetrocymbe, Tomasella, Peridiothelia, Pseudopyrenula, Cyrtidula, Cystocoleus, Kirschsteiniothelia, Mycoglaena, Racodium
Fungi - Ascomycota - Leotiomycetes - Thelocarpaceae, Vezdaeaceae
Fungi - Ascomycota - Eurotiomycetes - Sarcopyrenia

Englischer Name für diese Gruppe: Lichens

Number of living species: 9,614

Number of living infraspecific taxa: 216

Number of extinct species: 0

Number of extinct infraspecific taxa: 0

Anzahl von Synonymen: 8,186

Anzahl von Vernakularnamen: 1,835

Gesamtzahl von Namen: 19,851

Zusammenfassung: LIAS is a multi-authored information system for the collection and distribution of descriptive and other biodiversity data on lichens and selected groups of non-lichenized ascomycetes. LIAS is a long-term designed project with the final goal to comprise global data – estimates for the total number of lichen species worldwide range between 13.500 and 20.000. As GSD for Lichens LIAS is delivering combined data from LIAS light at <http://liaslight.lias.net> and LIAS names at <http://liasnames.lias.net>.

Organisation: LIAS, Botanische Staatssammlung München, Germany

Website: <http://www.lias.net>

Bibliographic citation: Rambold G. (lead editor; for detailed information see <http://liaslight.lias.net/About/Impressum.html> and <http://liasnames.lias.net/About/Impressum.html>) (2016). LIAS: A Global Information System for Lichenized and Non-Lichenized Ascomycetes (version Dec 2015). In: Species 2000 & ITIS Catalogue of Life, 28th April 2016 (Roskov Y., Abucay L., Orrell T., Nicolson D., Kurze T., Fian C., Bailly N., Kirk P., Bourgoin T., DeWalt R.E., Decock W., De Wever A., eds). Digital resource at www.catalogueoflife.org/col. Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-8858.

Zurück zur letzten Seite | Neue Suche

Annual Checklist Interface v1.9 r2126a80 Entwickelt von Naturalis Biodiversity Center. Bitte beachten sie – diese Seite benutzt cookies. Wenn sie weiterhin diese Seite nutzen, nehmen wir an, dass Sie der Verwendung zustimmen.

Global Species Database

DTN Taxon Lists Service connected to the GFBio TS



Regionalised and Domain-specific Taxon Lists

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The current focus is on domain-specific lists (checklists, taxon reference lists, red lists) from Germany under active curation by experts on taxonomy or floristics and faunistics. Each regionalised and domain-specific taxon list has its own history and objectives, is managed completely separately and has its own hierarchical classification. The DiversityTaxonNames (DTN) data resources accessed by the REST API may include additional taxon-related data useful, e. g., for regional nature conservation agencies and environmental projects. This information might be mobilised in a next step.

For more information please refer to [DTN_Taxon_Lists_Services](#)

[Home](#)[Content](#)[Developer Section](#)[Tools](#)[About](#)

CONTENT / EXTERNAL SERVICES

Web services connected to the Terminology Server

The following services have been integrated into the search [API](#):

- The Catalogue of Life: <http://cybertaxonomy.eu/cdmlib/rest-api-name-catalogue.html>
- The Integrated Taxonomic Information System (ITIS): http://www.itis.gov/web_service.html
- The World Register of Marine Species (WoRMS): <http://www.marinespecies.org/aphia.php?p=webservice>
- Fauna Europaea via PESI: <http://www.eu-nomen.eu/pesi/about-pesi>
- The GeoNames geographical database (Geonames): <http://www.geonames.org/export/web-services.html>
- The DWB REST Webservice for Taxon Lists (DTNtaxonlists): <http://services.snsb.info/DTNtaxonlists/rest/v0.1/static/api-doc.html>
- The Prokaryotic Nomenclature Up-to-Date Taxon list (PNU): <http://bacdive.dsmz.de/api/pnu/>



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Imprint

Terminologien, Referenzen, Vokabularien.....

DiversityAgents

Verwaltung von Personen und Organisationen

DiversityReferences

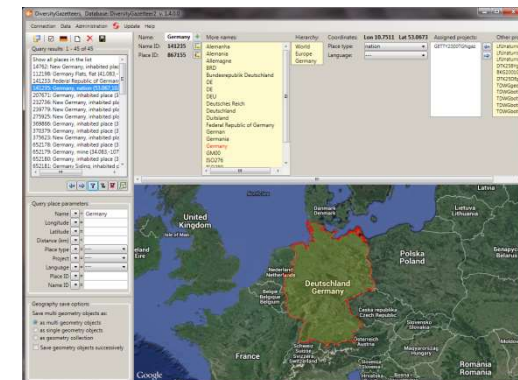
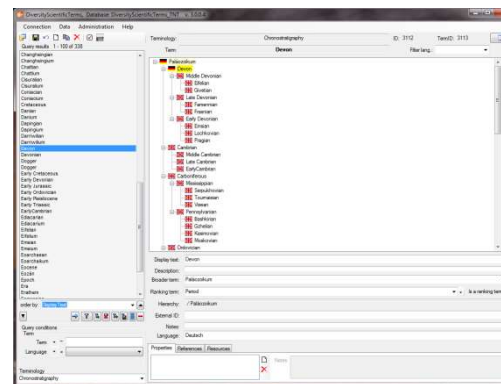
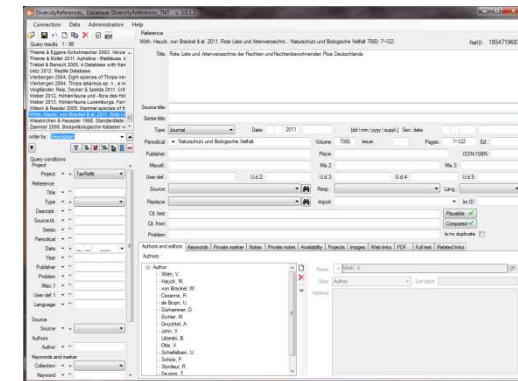
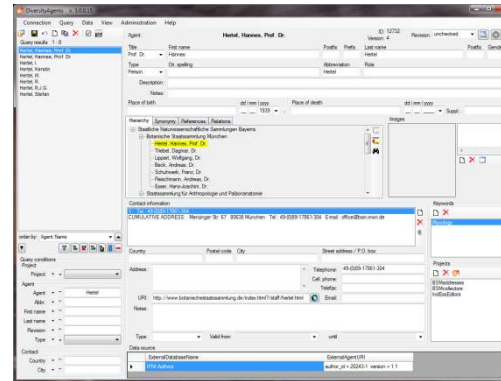
Verwaltung von Literaturreferenzen und Literaturdokumenten

DiversityScientificTerms

Management von Ontologien, Terminologien

DiversityGazetteers

Verwaltung geographischer Namensbestände, oft mit GIS Information und Hierarchien



Datenmanagement

Matrixdaten → DiversityDescriptions

Matrix

Alternative import formats:
DELTA and SDD

Triples:

- > item-descriptor-state
- > item-character-state
- > entity-attribute-value
- > element-property-value

Triple

I_ID	Item	D_ID	Descriptor	V_ID	Value

I_ID	D_ID	V_ID

DiversityDescriptions, Database: DiversityDescriptions3_0_6_Erythroneura v. 3.0.0.7

Connection Edit Query Data Administration Help

Erythroneura aclys McAtee Project: Erythroneura Language: en

Suchergebnisse 1 - 54

- Erythroneura aclys McAtee
- Erythroneura acuticephala Robinson
- Erythroneura amanda McAtee
- Erythroneura ancora Beamer
- Erythroneura anfracta Beamer
- Erythroneura aza Robinson
- Erythroneura bakeri Dmitriev & Dietric
- Erythroneura beameri Robinson
- Erythroneura bidens McAtee
- Erythroneura bistrata McAtee
- Erythroneura browni Dmitriev & Dietri
- Erythroneura caetra McAtee
- Erythroneura calycula McAtee
- Erythroneura cancellata McAtee
- Erythroneura carinata Dmitriev & Diet
- Erythroneura coloradensis Gillette

ordnen nach: Description

Suchkriterien

Description

Title ~

Project Erythroneura

Descriptor

Categoric. =

Quantitati. =

Text =

Data status = +

Scope

Taxon =

Geography =

Specimen =

Observati. =

Reference =

Other =

Description: Erythroneura aclys McAtee DB key: 868

Main attributes Descriptor view Continuous view Resource links

ID	Type	!	Descriptor name
1	categorical	•	Ground color of dorsum
2	categorical	•	Coloration of vertex
3	categorical	•	Coloration of vertex midline
4	categorical	•	Anteclypeus coloration
5	categorical	•	Pronotum color pattern
6	categorical	•	Color pattern of mesonotum
7	categorical	•	Coloration of thoracic venter
8	categorical	•	Presence of crossbands on forewings
9	categorical	•	Presence of oblique pattern on forewings
10	categorical	•	Presence of a brown spot in forewing inner apical c...
11	categorical	•	Presence of distal spot in forewing apical cell II
12	categorical	•	Clavus color pattern
13	categorical	•	Length of forewing outer apical cell
14	categorical	•	Length of 2S abdominal apodemes (Males)
15	categorical	•	Length of aedeagus preatrium (Males)
16	categorical	•	Dorsal apodeme of aedeagus in ventral view (Males)
17	categorical	•	Presence of teeth in distal part of aedeagal shaft (M...
18	categorical	•	Width of aedeagal shaft in lateral view (Males)
19	categorical	•	Position and length of aedeagus ventral processes (M...
20	categorical	•	Position and length of aedeagus distal processes (M...
21	categorical	•	Shape of pygofer dorsal appendages (Males)
22	categorical	•	Shape of pygofer lobe (Males)
23	categorical	•	Apex of aedeagus in ventral view (Males)
24	categorical	•	Apical vestiture of aedeagus (Males)

Categorical states

x	ID	State	Modifier	Frequency	Notes
<input type="checkbox"/>	1	entirely pale			
<input type="checkbox"/>	2	pale, with dark late...			
<input checked="" type="checkbox"/>	3	entirely dark			
<input type="checkbox"/>	4	pale, with dark bro...			

Media view

http://ctap.inhs.uuc.edu/dmitriev/images/aclys1.gif

Not to be recorded

- Not applicable

? Data unavailable

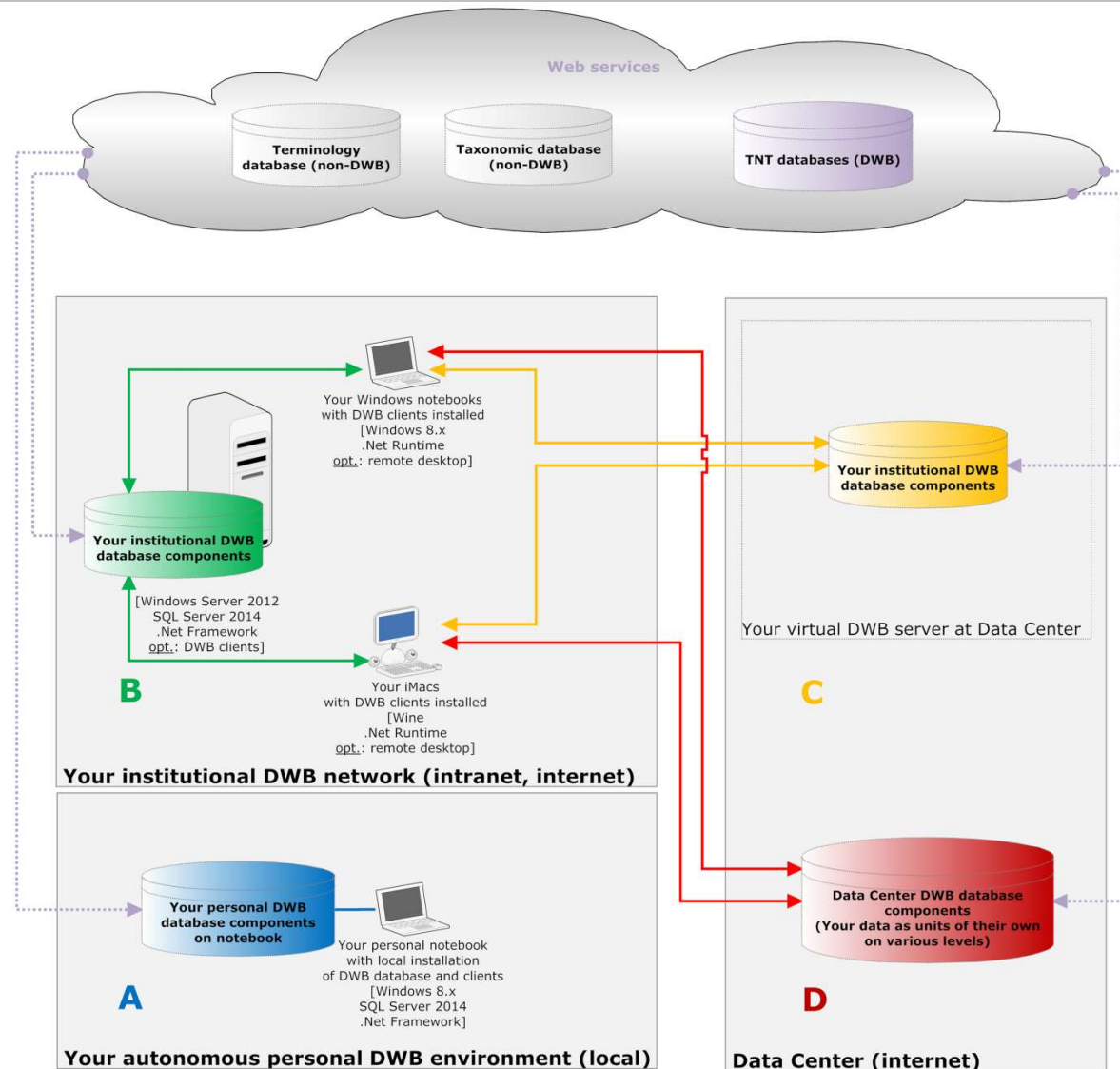
Not interpretable

§ Data withheld

0 Missing data

Edit description

DWB – Alternativen der Installation



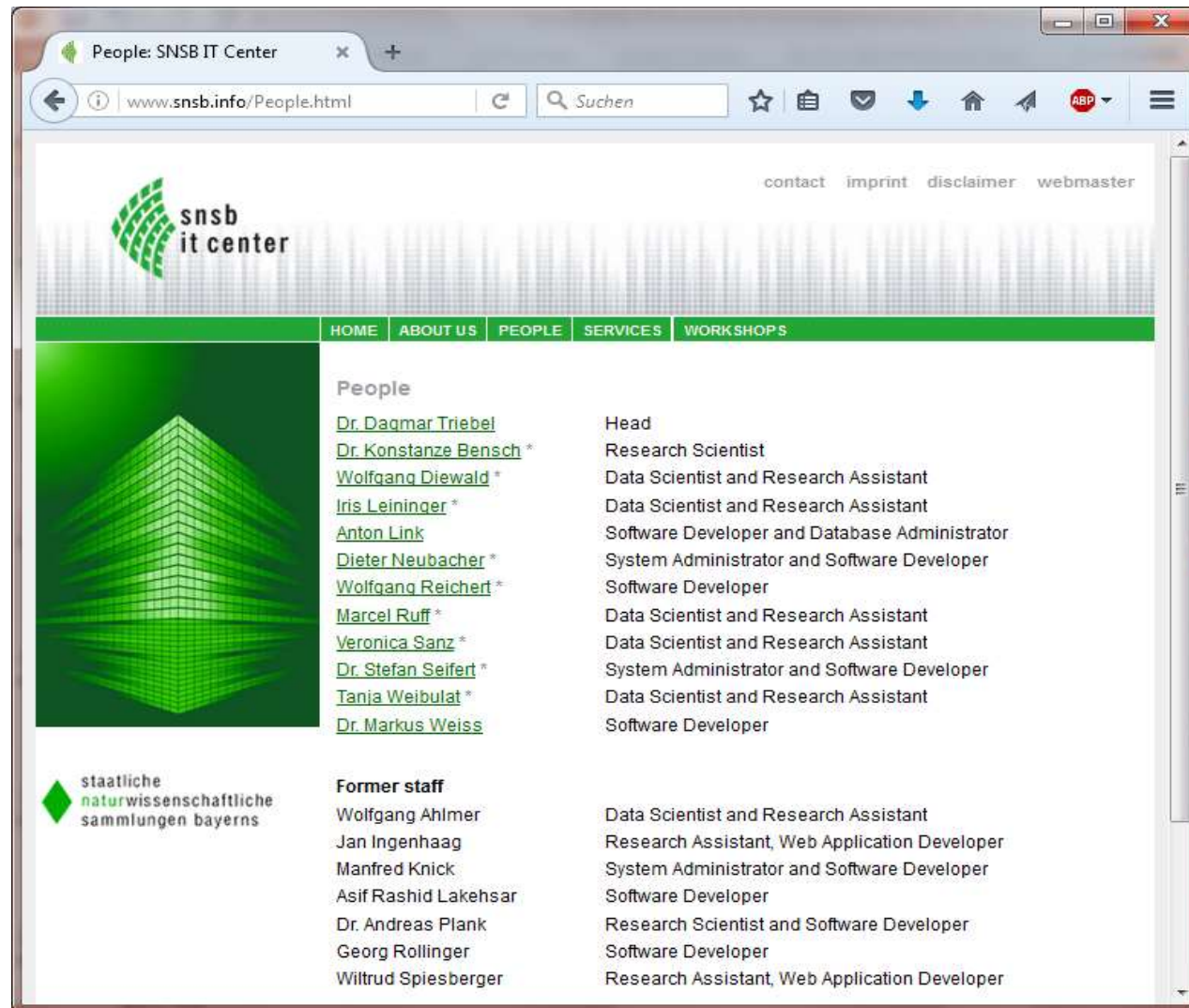
Installation: Mobile Intranet Lösung

- Als Arbeitsumgebung zum Einsatz in Feldstationen ohne Internetzugang
- Als IT-Trainingsumgebung für DWB-Workshops an Orten mit unsicherer Stromversorgung

mehr unter http://diversityworkbench.net/Portal/Mobile_intranet_solution_for_DWB



SNSB IT Center



People: SNSB IT Center

www.snsb.info/People.html

contact imprint disclaimer webmaster

snsb it center

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People

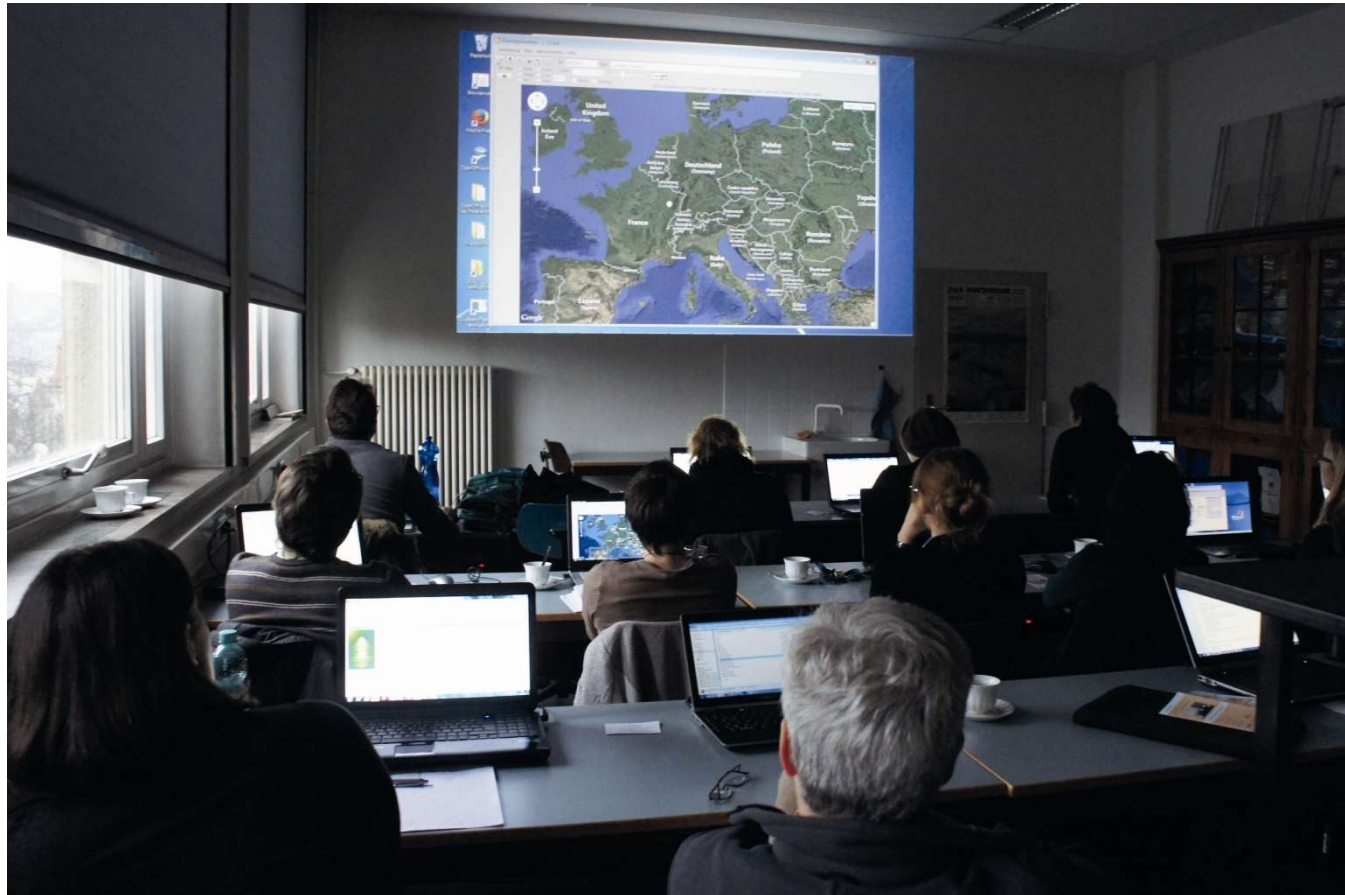
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staatliche naturwissenschaftliche sammlungen bayerns

DWB Workshop am 10. Febr. 2017



http://www.snsb.info/SNSBInfoOpenWiki/Wiki.jsp?page=DivWorkbenchWorkshop_31