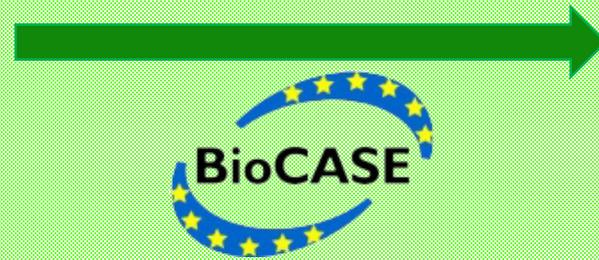


SNSB as GBIF data publisher with DWB-BioCASE data publication pipelines



SNSB Data Publication at GBIF Portal

The screenshot shows the GBIF portal interface for the publisher 'Staatliche Naturwissenschaftliche Sammlungen Bayerns'. The top navigation bar includes 'Get data', 'How-to', 'Tools', 'Community', and 'About', along with a search icon and a 'Login' button. The publisher's name is displayed prominently, with the text 'PUBLISHER | SINCE MAY 3, 2010' above it. Below the name, there are statistics: '15,413,857 OCCURRENCES', '15,426,685 HOSTED OCCURRENCES', '79 DATASETS', and '1,460 CITATIONS'. The main content area contains a description of the SNSB as a public consortium of scientific research institutions, natural history museums, and a botanical garden. It also lists contact information for administrative and technical points of contact, and mentions that 80 datasets are hosted by 2 publishers in 2 countries. A map of Central Europe is shown, with a blue pin marking the location of the SNSB in Munich, Germany. The bottom section of the page lists the 'CONTACTS' with their respective roles: 'Staatliche Naturwissenschaftliche Sammlungen Bayerns' (Administrative point of contact), 'SNSB IT Center' (Technical point of contact), and 'Dagmar Triebel' (Administrative point of contact).

Get data How-to Tools Community About Login

PUBLISHER | SINCE MAY 3, 2010

Staatliche Naturwissenschaftliche Sammlungen Bayerns

ABOUT METRICS HOME PAGE

15,413,857 OCCURRENCES 15,426,685 HOSTED OCCURRENCES 79 DATASETS 1,460 CITATIONS

Description: The Bavarian Natural History Collections (Staatliche Naturwissenschaftliche Sammlungen Bayerns, SNSB) are a public consortium of scientific research institutions, natural history museums and a botanical garden. They are a sub-item of the Bavarian State Ministry of Sciences, Research and the Arts. All these institutions are located in Bavaria and have a wide range of tasks and goals. The data provided by the SNSB are processed by the SNSB IT Center (www.snsb.info). The data ownership is as cited under the single data resources.

Endorsed by: [GBIF Germany](#)

Installations: [DiversityTaxonNames Server](#) • [BioCASE Installation Staatliche Naturwissenschaftliche Sammlungen Bayerns](#)

Administrative contact: [Dagmar Triebel](#)

Technical contact: [SNSB IT Center](#)

Country or area: [Germany](#)

Hosting: [80 datasets](#) ([2 publishers](#) • [2 countries](#))

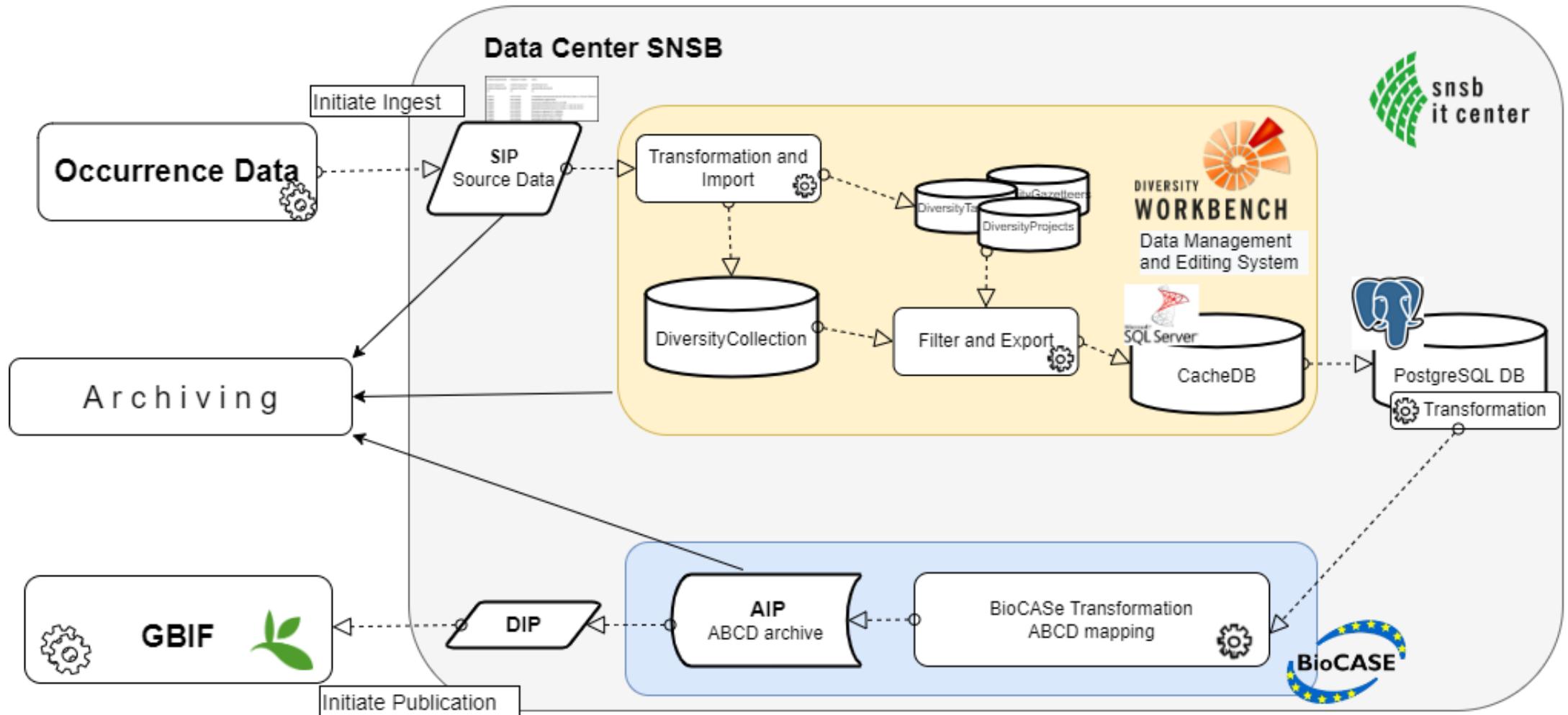
CONTACTS

Staatliche Naturwissenschaftliche Sammlungen Bayerns	SNSB IT Center Technical point of contact	Dagmar Triebel Administrative point of contact
--	--	---

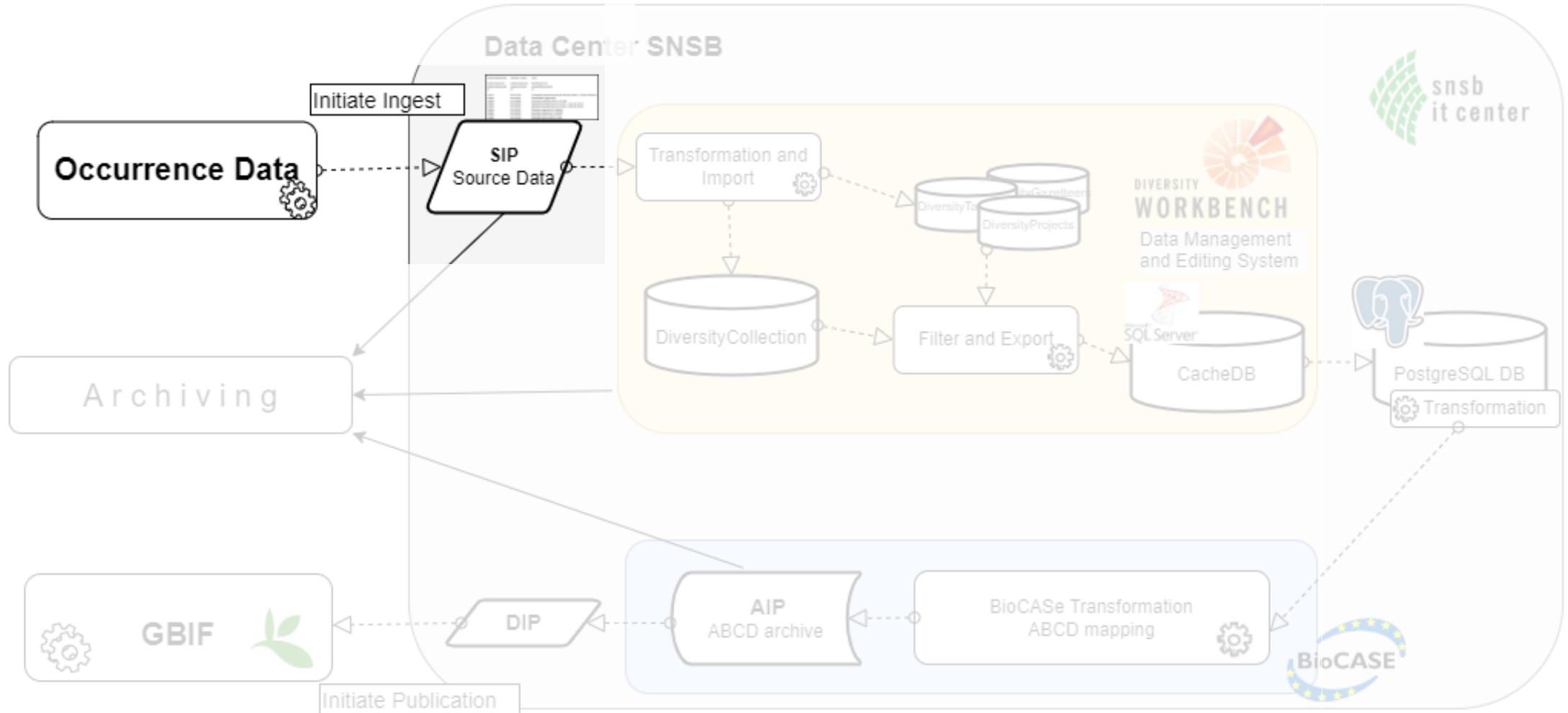
SNSB Data Publication at GBIF Portal

The image shows a screenshot of the GBIF portal's publisher page for 'Staatliche Naturwissenschaftliche Sammlungen Bayerns'. The top navigation bar includes 'Get data', 'How-to', 'Tools', 'Community', and 'About', along with a 'Login' button. Below the navigation, the publisher name is displayed, followed by 'PUBLISHER | SINCE MAY 3, 2010'. The main heading is 'Staatliche Naturwissenschaftliche Sammlungen Bayerns'. A secondary navigation bar contains 'ABOUT', 'METRICS', and 'HOME PAGE'. On the right, three summary boxes show '15,033,228 OCCURRENCES', '79 DATASETS', and '546 CITATIONS'. Two green arrows point from the 'METRICS' area to two callout boxes. The left callout box displays a list of datasets, including 'Floristic records from survey studies of the Bayerisches Landesamt für Umwelt', 'Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria', 'IBF Monitoring of Vascular Plants', 'The Fungal Collection at the Senckenberg Museum für Naturkunde Görlitz', 'Fungus Collections at Staatliches Museum für Naturkunde Karlsruhe (Herbarium KR)', and 'The Vascular Plant Collection at the Botanische Staatssammlung München'. The right callout box displays a list of datasets, including 'Taxon list of fungi and fungal-like organisms from Germany compiled by the DGM', 'Taxon list of animals with German names (worldwide) compiled at the SMNS', 'Taxon list of vascular plants from Bavaria, Germany compiled in the context of the BFL project', 'Taxon list of Hymenoptera from Germany compiled in the context of the GBOL project', 'Taxon list of Araneae from Germany compiled in the context of the GBOL project', and 'Taxon list of mosses from Germany compiled in the context of the GBOL project'. Each dataset entry includes a title, a 'Checklist dataset' or 'Occurrence dataset' label, a URL, the publisher name, and occurrence/citation counts.

Dataflow of occurrence data



Data Management System *Diversity Workbench*



Diversity Workbench Import Wizard

File: C:\Users\Sanz\Documents\Purpurascetes\Schmidt-Stohn-Purpurascetes Nr. 1-41_150521_fin.txt

Encoding: ANSI Start line: 2 End line: 42

Schema: C:\Users\Sanz\Documents\Purpurascetes\Schmidt-Stohn-Purpurascetes Nr. 1-41_150521_fin_20150611_142709.xml

Language / Country: US

Schedule for import of tab-separated text files into DiversityCollection

Target within DiversityCollection: **Specimen**

Schedule version: 1 Database version: 02.05.58

Lines: 2 - 42 First line contains column definition:

Encoding: ANSI Language: US

Tables

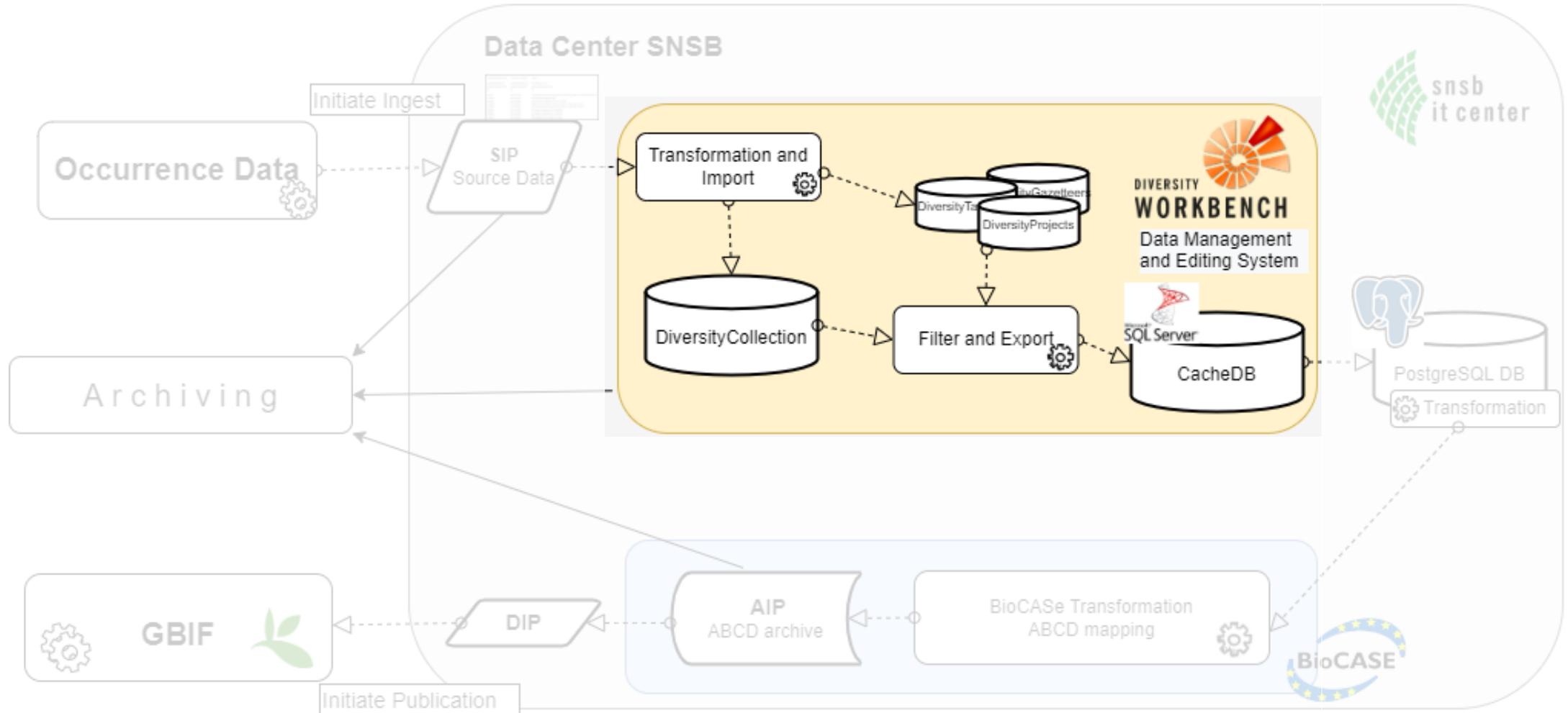
CollectionEvent (CollectionEvent)

Merge handling: **insert**

Column in table	Key	Copy	Pre	Post	File pos.	Transformations	Value	Source	Table
CollectionEventID								Database	
CollectionDay	?				7	Split at Pos. Dir. 1 ⇌		File	
CollectionMonth	?				7	Split at Pos. Dir. 2 ⇌		File	
CollectionYear	?				7	Split at Pos. Dir. 3 ⇌		File	

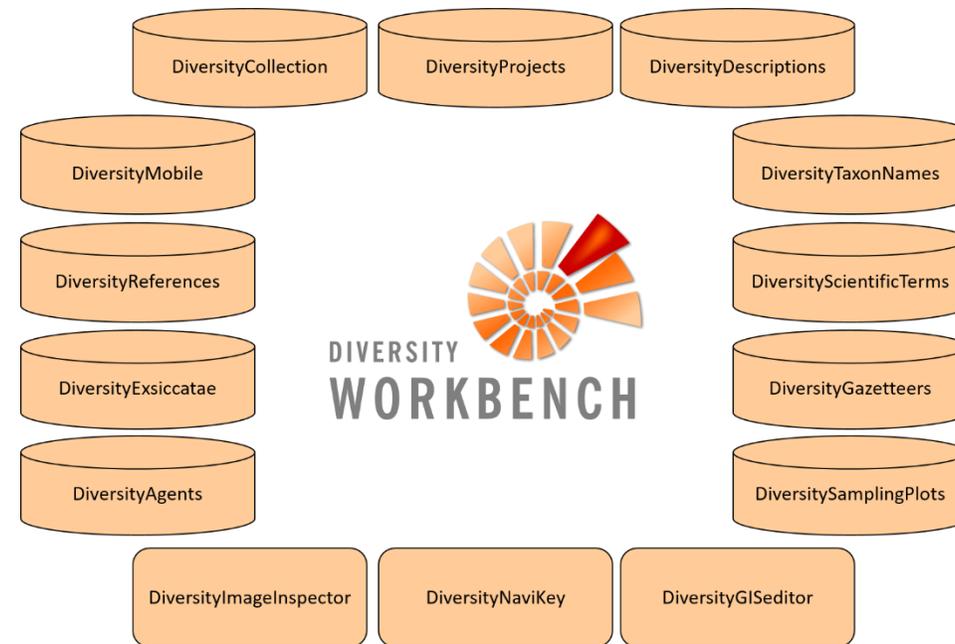
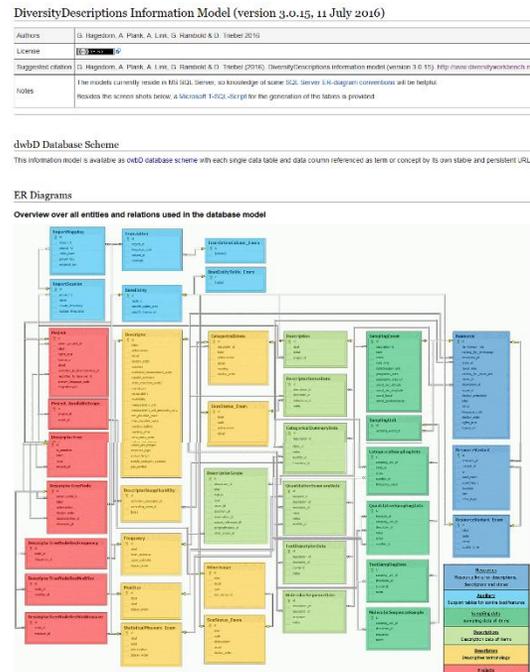
	Specimen	Part 1 StorageLocation	Event CountryCache	Event LocalityDescription	Agent 1 CollectorsName	Agent 1 CollectorsNumber	Event CollectionDay	Event LocalityDescription	
	AccessionNumber	LastIdentificationCa			Agent 2 CollectorsName		CollectionMonth	Event	
		Identification 1.1					CollectionYear	HabitatDescription	
1	Nr.	M-Nummern	Art	Land	Fundort	Sammler	Koll.-Nr.	Datum	Begleitbäume, O...
2	1	M-0275820	Cortinarium purpur...	Ungarn	Szentendre	B. Dima	DB3362	16.10.2008	Quercus petraea,...
3	2	M-0275821	Cortinarium purpur...	Ungarn	SzSzb, Bátorliget	L. Albert & B. Dima	DB1339	02.10.2004	Quercus robur
4	3	M-0275822	Cortinarium purpur...	Deutschland	Kyffhäuser/Leop...	G. Schmidt-Stohn	SS07-211	09.10.2007	Quercus
5	4	M-0275823	Cortinarium subpu...	Italien	Matschatsch	C. Rossi	Rossi4034	03.10.1998	Fagus
6	5	M-0275824	Cortinarium purpur...	Italien	S. Vito Comedo	C. Rossi	Rossi4906	22.10.2000	Picea, Castanea
7	6	M-0275825	Cortinarium purpur...	Italien	Calangianus	C. Rossi	Rossi5053	02.11.2000	Quercus suber, Q...

Data Management System *Diversity Workbench*

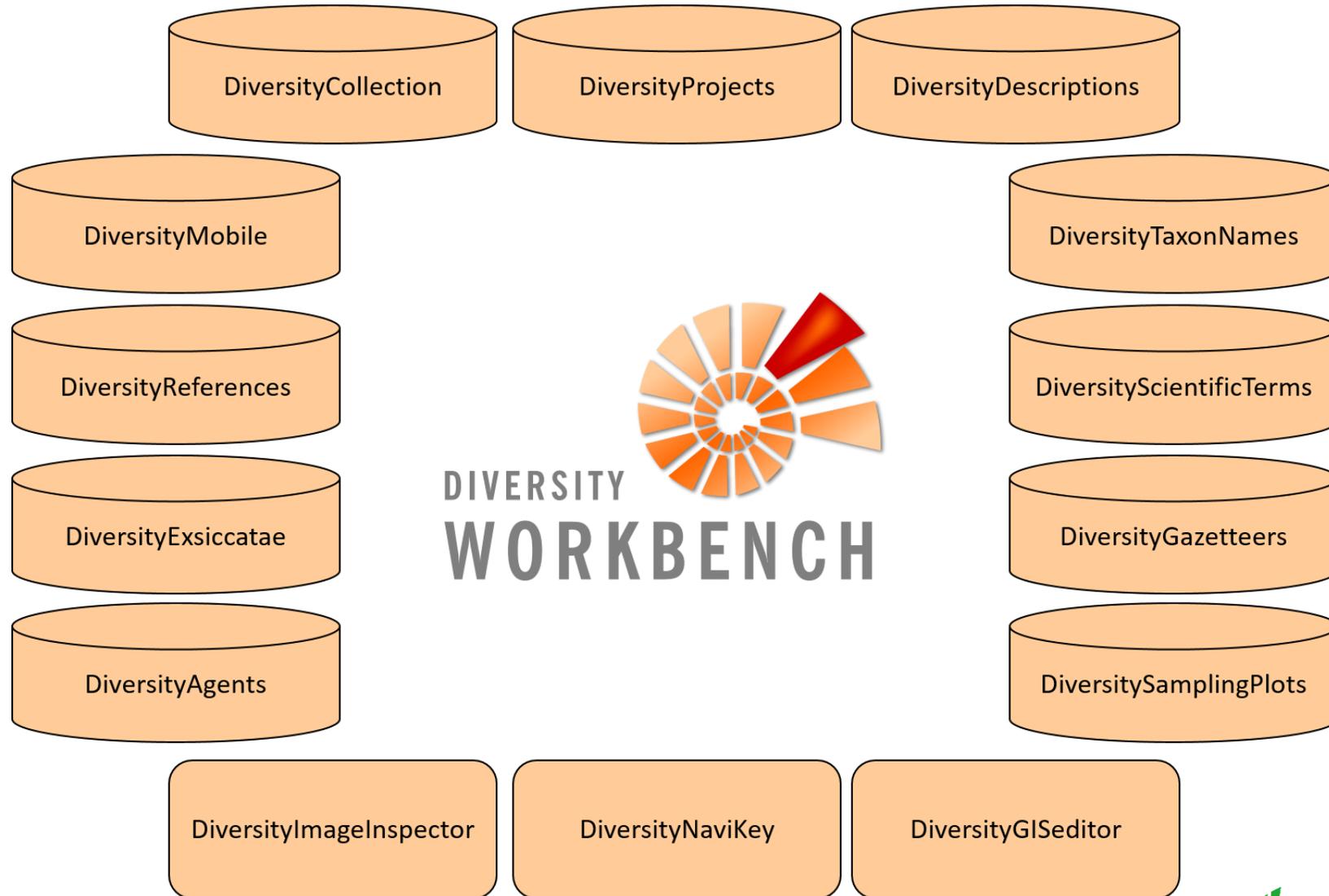


DWB – a Set of Software Tools

- 11 SQL relational data bases for the management of research and collection data
- Software Implementation is mainly done at the SNSB
- Concept development / modelling in cooperation with other teams

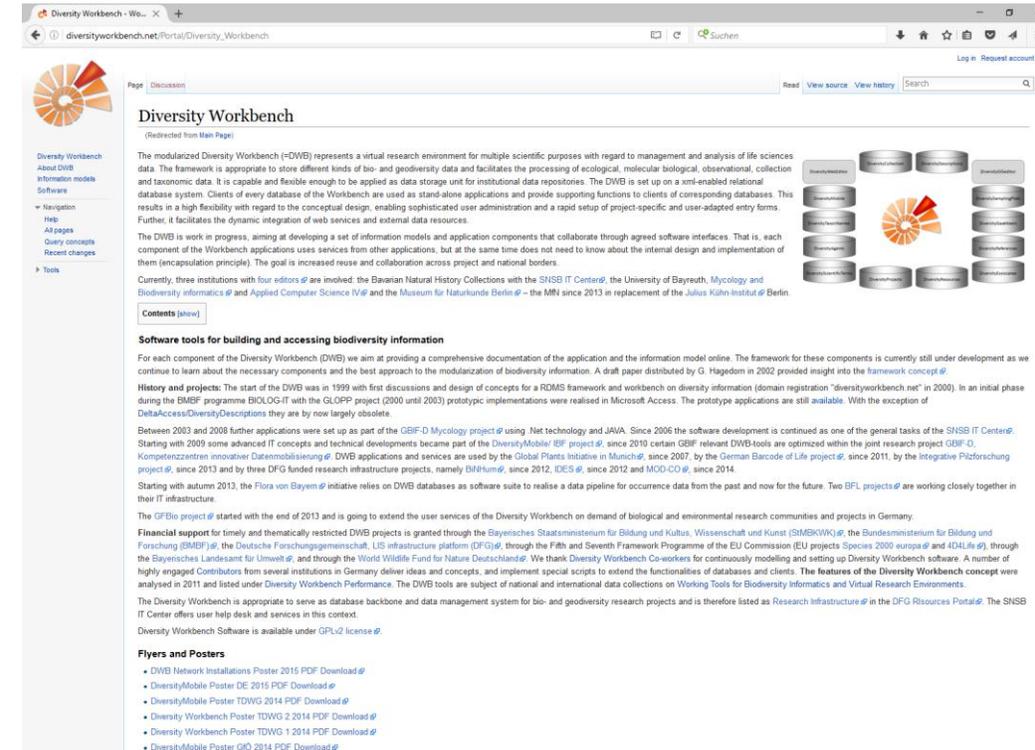


DWB – a Set of Software Tools

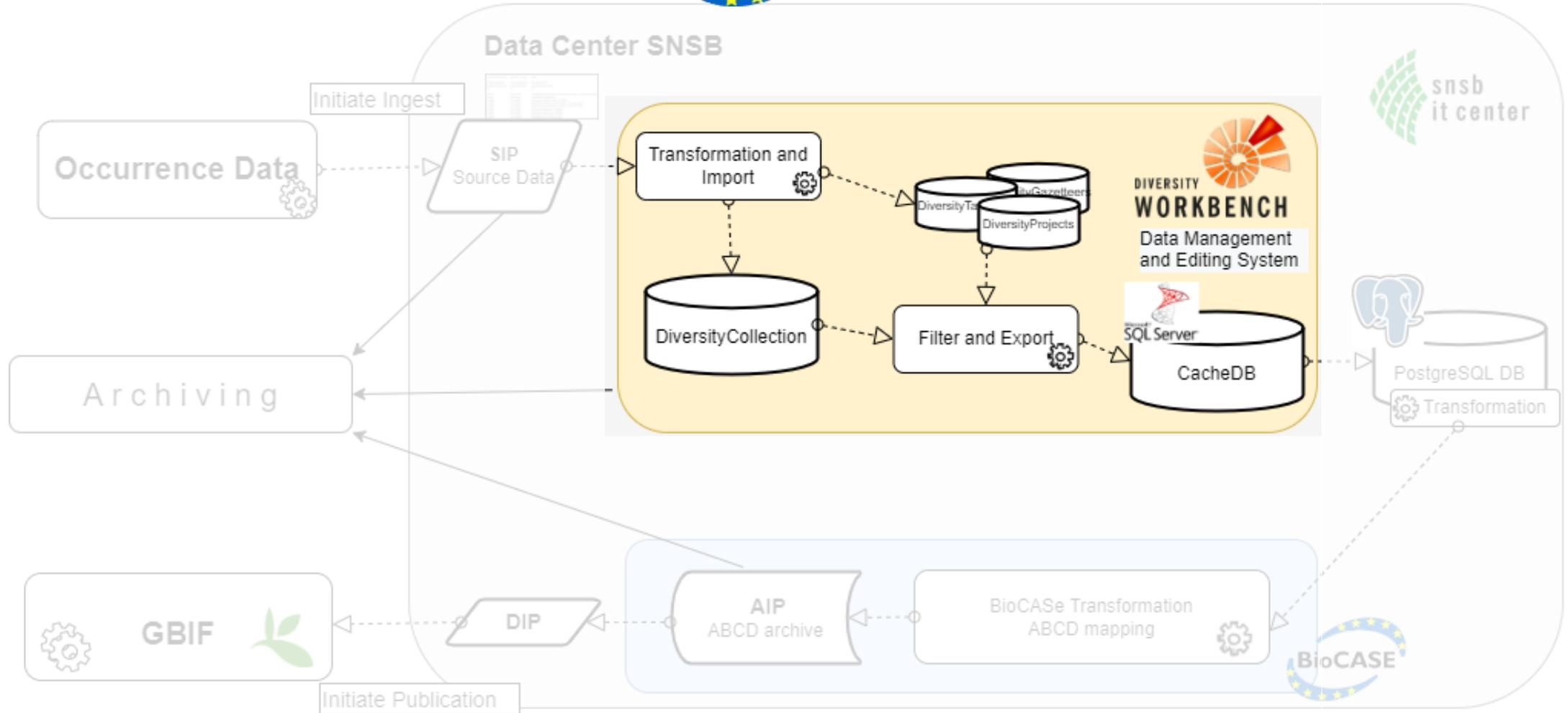


DWB – Agile Software Development

- for more than 20 years
- Software is open access - www.diversityworkbench.net
- Open source implementation with more than 2 Mio code lines
- Software design, data model and ER schema are innovativ and published open access
- Agile software development with test of software by more than 30 committed users
- Workshops since more than 15 years



Data Export: The - BioCASE - Pipeline



Data Export: The - BioCASE - Pipeline



The screenshot shows the DiversityCollection v.3.0.6.21 interface. On the left, the 'Query results' list is circled in red, showing specimen IDs like M-0056515 and M-0056518. Below it, the 'Query conditions' panel is also circled in red, showing filters for 'Project' (BSMfungicell) and 'Collection specimen'. The main area displays details for specimen M-0056518, including its collection event (1990/6/26 in Bulgaria) and storage information (herbarium sheet). A red circle highlights the 'Details to the specimen/ observation' section, and another red circle highlights the 'Details to the storage of the specimen' section. On the right, the 'Collection event' details are shown, with a red circle highlighting the '...and according to the information which is selected in one of the two areas on the left, the details to the chosen line are visible in here.' section.

Data Export: The



- Pipeline

Different withhold options available

Data Export: The



- Pipeline

Connection Grid Query Data Administration Help

Query results 1 - 6201

M-0015919
M-0015920
M-0015921
M-0015922
M-0015923
M-0015924
M-0015925
M-0015926
M-0015927
M-0015928

order by: Acc. Nr.

Query conditions

Projects

Project ~ + BSMeryscoll +

Cre. date =

Specimen or parts

Acc. Nr. ~

Collection specimen

Acc. Nr. ~

ID =

Acc. date =

Depositor ~

Or. note ~

Problem ~

Withhold. ~

Cre. dat. =

Chang. by. =

Specimen identifier

Identifier ~

Collection event

Date =

Date =

Acc. Nr. **M-0015926** **Microsphaera calocladophora G. F. Atk.**

Specimen 12677 Event 54524 Version 2 2 Withhold. STOP

Specimen images and resources

Botanische Staatssammlung München

M-0015926

Rabenhorst-Winter, Fungi europaei.
3538. Microsphaera densissima
(Schwein.)
Erysiphe densissima Schweinitz, Synops. Fung. Americ.
bor. p. 269. No. 2479.
Microsphaera densissima Peck, 29. Report. New-York
State Museum p. 80.
America borealis: prope Green Cove Springs, Florida.
Ad folia viva Quercus laurifoliae.
März 1886. leg. G. Martin.

Type IPR EXIF

Title:

Unit:

Part:

Type: photograph = photographic still image of a specimen, observation or

Notes: label

Int.N.:

Withh.: STOP

D.ord.: 1

Collection event

Date: 3_ 1886 Suppl.:

Category:

End: Time: T.span:

Ref.:

No.:

Withhold.R.:

Notes:

Country: United States of America Coll.meth.:

Description of the locality Verbatim Description of the habitat

America borealis: prope Green Cove Springs, Florida.

Named area (DiversityGazetteer)

Green Cove Springs, Clay, Florida, United States

Accuracy: Dist.: Direct.:

Alt.: Lat.: 29.98333351

Notes: Date: 11/17/2003 7:51

Different withhold options available

Data Export: The



- Pipeline

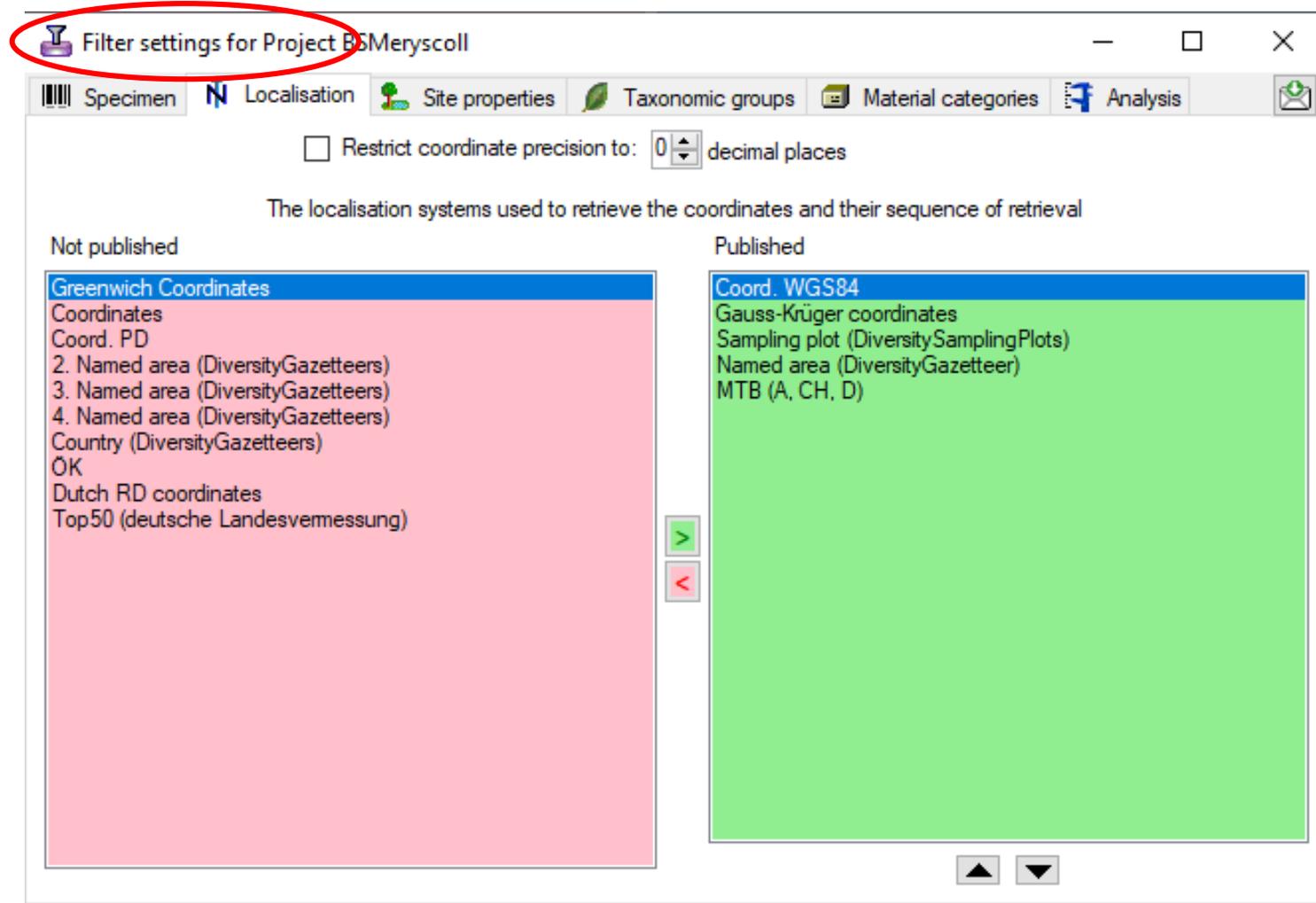
The screenshot displays the Diversity Workbench interface for a 'Cache database'. The top navigation bar includes 'Update, Sources', 'Projects', 'Anon. collectors', 'Protocol', 'Diagnostics', 'BioCASE', and 'Old version'. A 'Transfer all data' button is visible on the right. The main area shows a list of projects published via the cache database and the current postgres database. The projects are organized into three main sections: 'DiversityCollection', 'BSMeryscoll', and 'BSMfungicoll'. Each section contains a summary card and a detailed view of the project's data and transfer status.

Project Name	Dataset Count	Last Update	Transfer Status	Last Transfer	Version
DiversityCollection	6201 datasets	2022-03-14 15:11:19	69 datasets withheld	2022-06-22 06:30:54	Version 33
DiversityCollectionCache01	6132 datasets			2022-06-22 07:35:43	Version 24
BSMeryscoll	14875 datasets	2022-04-06 17:22:20	8639 datasets withheld		Version 33
BSMfungicoll	6236 datasets				Version 33

Data Export: The



- Pipeline



Data Export: The

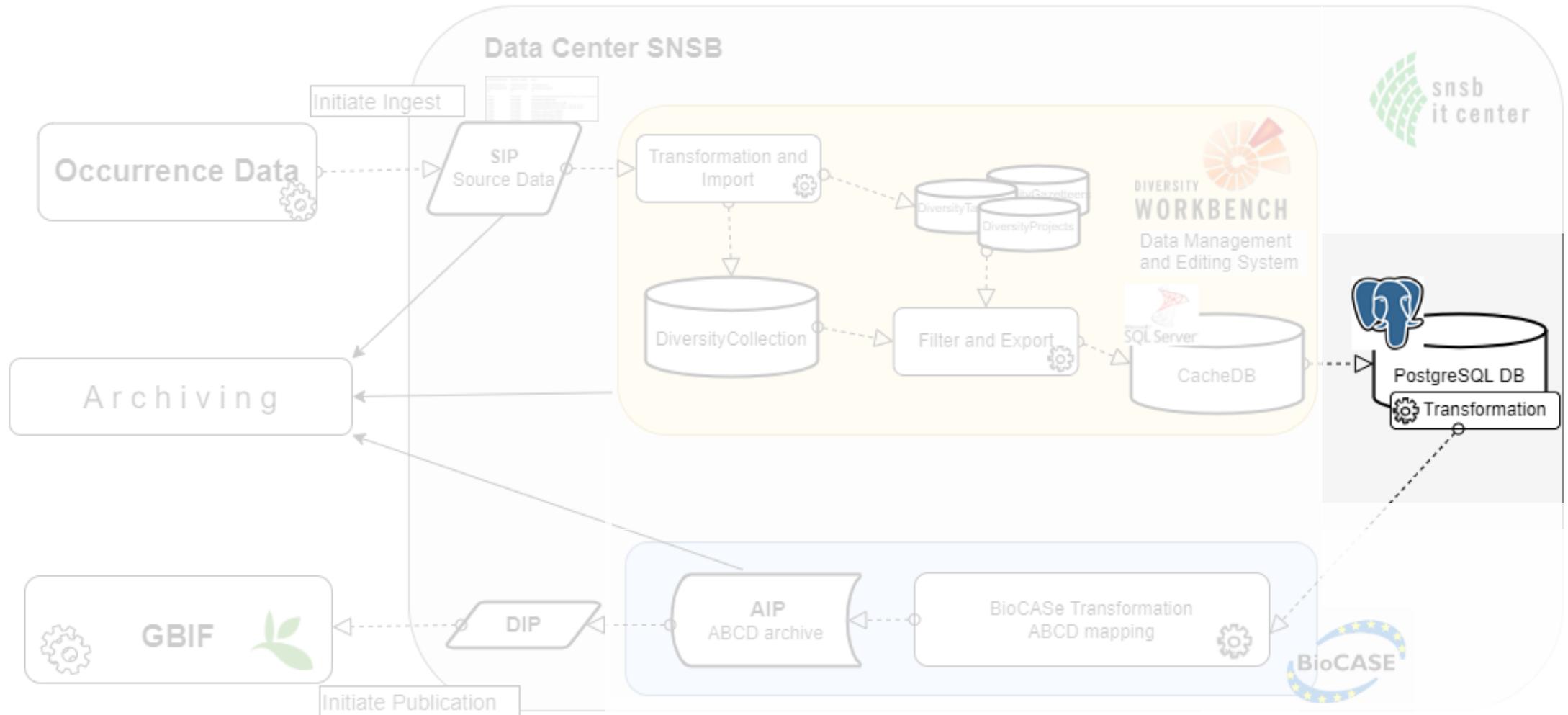


- Pipeline

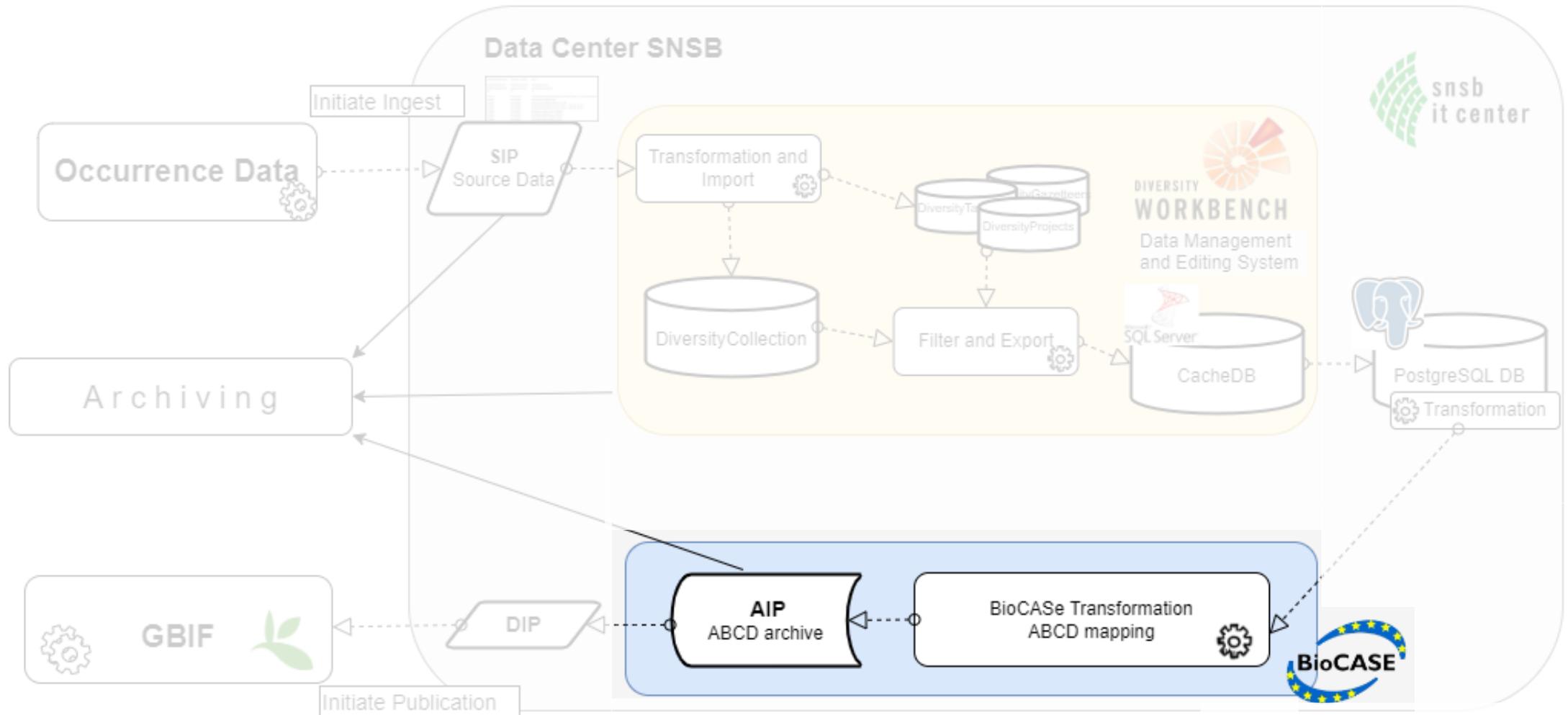
The screenshot displays the Diversity Workbench interface for a 'Cache database'. The top navigation bar includes 'Update, Sources', 'Projects', 'Anon. collectors', 'Protocol', 'Diagnostics', 'BioCASE', and 'Old version'. A 'Transfer all data' button is visible on the right. The main area shows a list of projects published via the cache database and the current postgres database. The projects are organized into three main sections: 'DiversityCollection', 'BSMeryscoll', and 'BSMfungicoll'. Each section contains a summary card and a detailed view of the project's data and transfer status.

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DiversityCollection	6201 datasets	2022-03-14 15:11:19	69 datasets withheld	2022-06-22 06:30:54
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BSMfungicoll	14875 datasets	2022-04-06 17:22:20	8639 datasets withheld	2022-06-22 06:29:10

BioCASE Transformation / ABCD Mapping



BioCASE Transformation / ABCD Mapping



BioCASE Provider Software

The screenshot shows the BioCASE Configuration Tool interface for the mapping file `ABCD_2.06.xml`. The browser address bar shows the URL `biocase.snsb.info/wrapper/configtool/mapping.cgi?dsa=` with a zoom level of 80%. The page title is "BioCASE Configuration Tool - BSMfungicoll".

Navigation links: Home | Overview | Settings | DB connection | DB structure | Archiving & Filtered export | QueryForms | Help | Report a Bug

Mapping - ABCD_2.06.xml
<http://www.tdwg.org/schemas/abcd/2.06>

Generated	2005-07-06 14:39:18.15 by PyWrapper v2.0.0
Modified	2020-07-02 10:27:37
Record definition	/DataSets/DataSet/Units/Unit
Root table alias	Unit
Static table aliases	Metadata

Buttons: Refresh, Save, Revert, Test Mapping!

Show all concepts or add new concepts by xpath identifier:

- Collapse all | + Expand all | Collapse unmapped

```
- DataSets
  DataSet ∞
    - ContentContacts
      ContentContact ∞
        Address ⊕
          Mapping1: ContentContact.Address(text) ⊕⊖
        Email ⊕
          Mapping1: ContentContact.Email(text) ⊕⊖
        Name ⊕
          Mapping1: ContentContact.Name(text) ⊕⊖
        Phone ⊕
          Mapping1: ContentContact.Phone(text) ⊕⊖
        DatasetGUID ⊕
          Mapping1: Metadata.DatasetGUID(text) ⊕⊖
      - Metadata
        - Description
          - Representation
            @language ⊕
              Mapping1: "en" ⊕⊖
            Details ⊕
              Mapping1: Metadata.Description_Representation_Details(text) ⊕⊖
            Title ⊕
              Mapping1: Metadata.Description_Representation_Title(text) ⊕⊖
            URI ⊕
              Mapping1: Metadata.Description_Representation_URI(text) ⊕⊖
```



BioCASE Configuration Tool - *BSMfungicoll*

[Home](#) | [Overview](#) | [Settings](#) | [DB connection](#) | [DB structure](#) | [Archiving & Filtered export](#) | [QueryForms](#) | [Help](#) | [Report a Bug](#)

Database connection

The connection to the database is **OK**.

[Edit Connection parameters](#)

Database Structure

You have configured 13 table aliases.

[Edit DB structure](#)

Schemas

These are the XML schemas supported by this datasource and the number of elements mapped.

Click on the name to edit the mapping:

[ABCD_2.1.xml](#) : 115 concepts mapped from 1470 of NS <http://www.tdwg.org/schemas/abcd/2.1> 

1 XML archive(s) for this schema, last modified on 2022-09-27.

mappings from ABCD_2.1.xml to new schema

[ABCD_2.06.xml](#) : 107 concepts mapped from 988 of NS <http://www.tdwg.org/schemas/abcd/2.06> 

1 XML archive(s) for this schema, last modified on 2022-09-27.

mappings from ABCD_2.06.xml to new schema

Map your DB to a new schema:

Recycle bin: Restore a schema mapping to reactivate the schema, or press purge to permanently delete the file.

Recycle bin is empty.

DarwinCore Archives

No DarwinCore archives created so far.



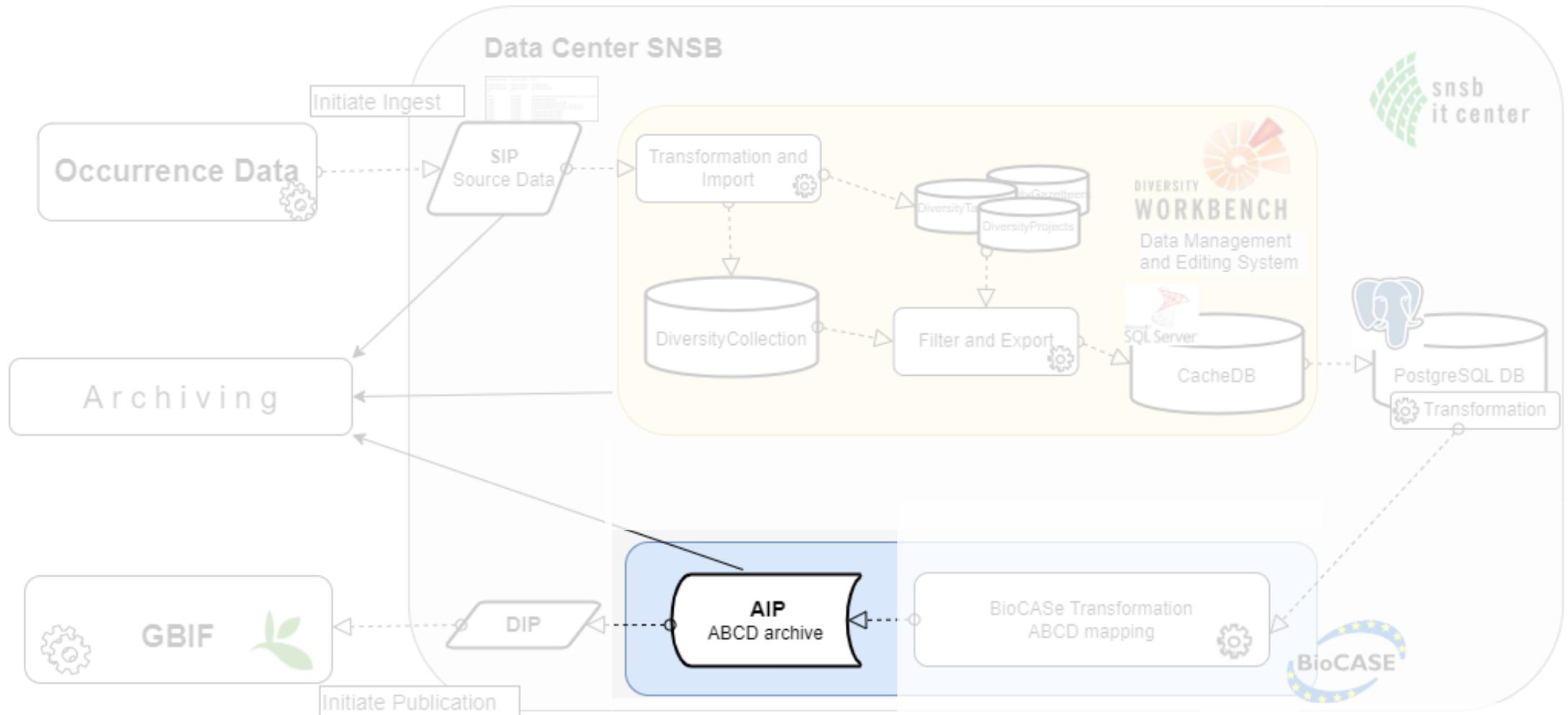
BioCASE Configuration Tool - *BSMfungicoll*

[Home](#) | [Overview](#) | [Settings](#) | [DB connection](#) | [DB structure](#) | **[Archiving & Filtered export](#)** | [QueryForms](#) | [Help](#) | [Report a Bug](#)

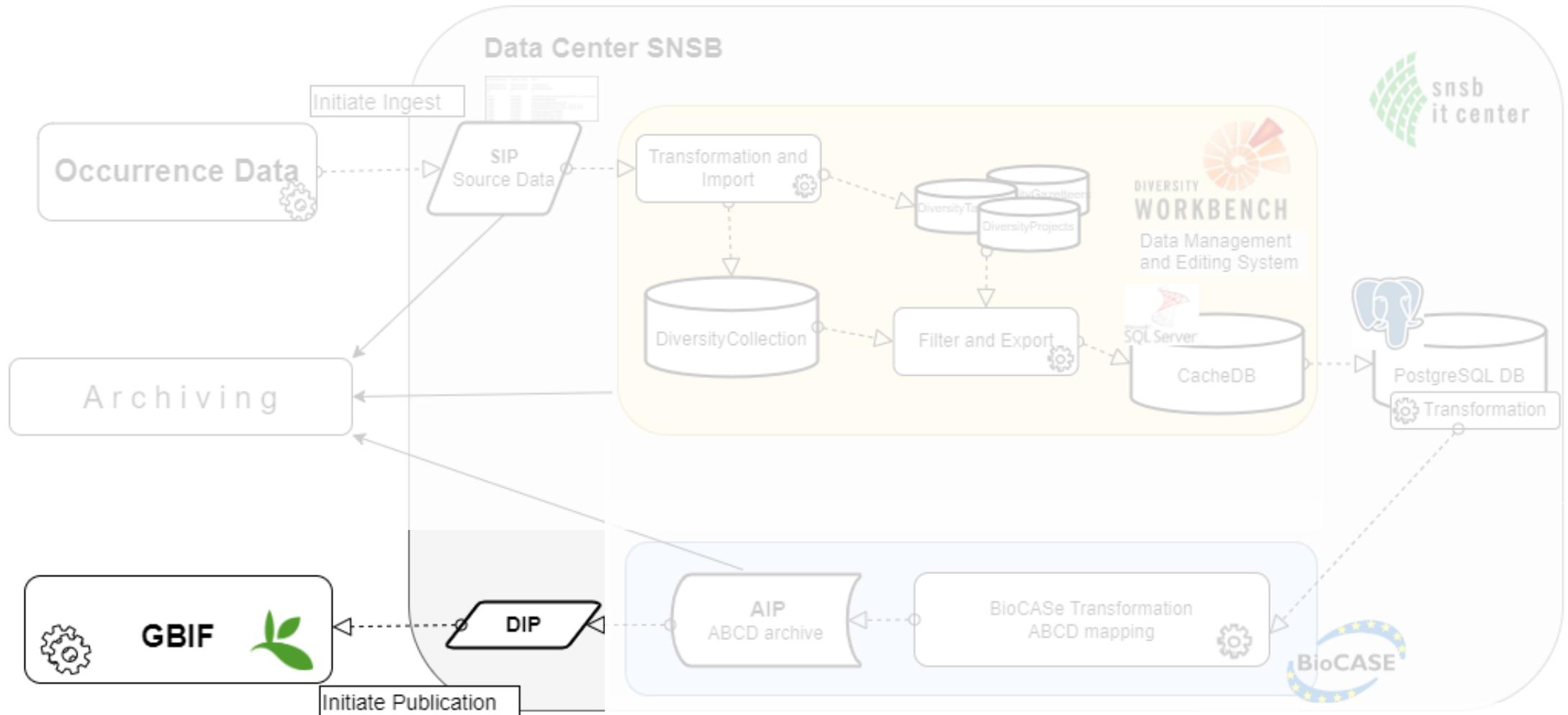
Existing Archives

Schema/File Name	Recs	Drop	Last modified	Size	
- ABCD_2.06 The Fungal Collection at the Botanische Staatssammlung Munchen.ABCD_2.06.zip	9,059		Log 22-09-27 13:19	1 M	DwC
- ABCD_2.1 The Fungal Collection at the Botanische Staatssammlung Munchen.ABCD_2.1.zip	9,059		Log 22-09-27 12:43	1 M	DwC

BioCASE Transformation / ABCD Mapping



BioCASE Transformation / ABCD Mapping



SNSB Data Publication at GBIF Portal

The screenshot shows the GBIF portal interface for the publisher 'Staatliche Naturwissenschaftliche Sammlungen Bayerns'. The top navigation bar includes 'Get data', 'How-to', 'Tools', 'Community', and 'About', along with a search icon and a 'Login' button. The publisher's name is prominently displayed, followed by the text 'PUBLISHER | SINCE MAY 3, 2010'. Below this, a row of statistics shows '15,413,857 OCCURRENCES', '15,426,685 HOSTED OCCURRENCES', '79 DATASETS', and '1,460 CITATIONS'. The main content area features a description of the SNSB as a public consortium of scientific research institutions, natural history museums, and a botanical garden in Bavaria. It also lists contact information for administrative and technical points of contact, and mentions that 80 datasets are hosted by two publishers in two countries. A map of Bavaria is included, with a blue pin marking the location of the SNSB IT Center in Munich. At the bottom, there are three contact cards: 'Staatliche Naturwissenschaftliche Sammlungen Bayerns', 'SNSB IT Center Technical point of contact', and 'Dagmar Triebel Administrative point of contact'.

Get data How-to Tools Community About Login

PUBLISHER | SINCE MAY 3, 2010

Staatliche Naturwissenschaftliche Sammlungen Bayerns

ABOUT METRICS HOME PAGE

15,413,857 OCCURRENCES 15,426,685 HOSTED OCCURRENCES 79 DATASETS 1,460 CITATIONS

Description: The Bavarian Natural History Collections (Staatliche Naturwissenschaftliche Sammlungen Bayerns, SNSB) are a public consortium of scientific research institutions, natural history museums and a botanical garden. They are a sub-item of the Bavarian State Ministry of Sciences, Research and the Arts. All these institutions are located in Bavaria and have a wide range of tasks and goals. The data provided by the SNSB are processed by the SNSB IT Center (www.snsb.info). The data ownership is as cited under the single data resources.

Endorsed by: [GBIF Germany](#)

Installations: [DiversityTaxonNames Server](#) • [BioCASE Installation Staatliche Naturwissenschaftliche Sammlungen Bayerns](#)

Administrative contact: [Dagmar Triebel](#)

Technical contact: [SNSB IT Center](#)

Country or area: [Germany](#)

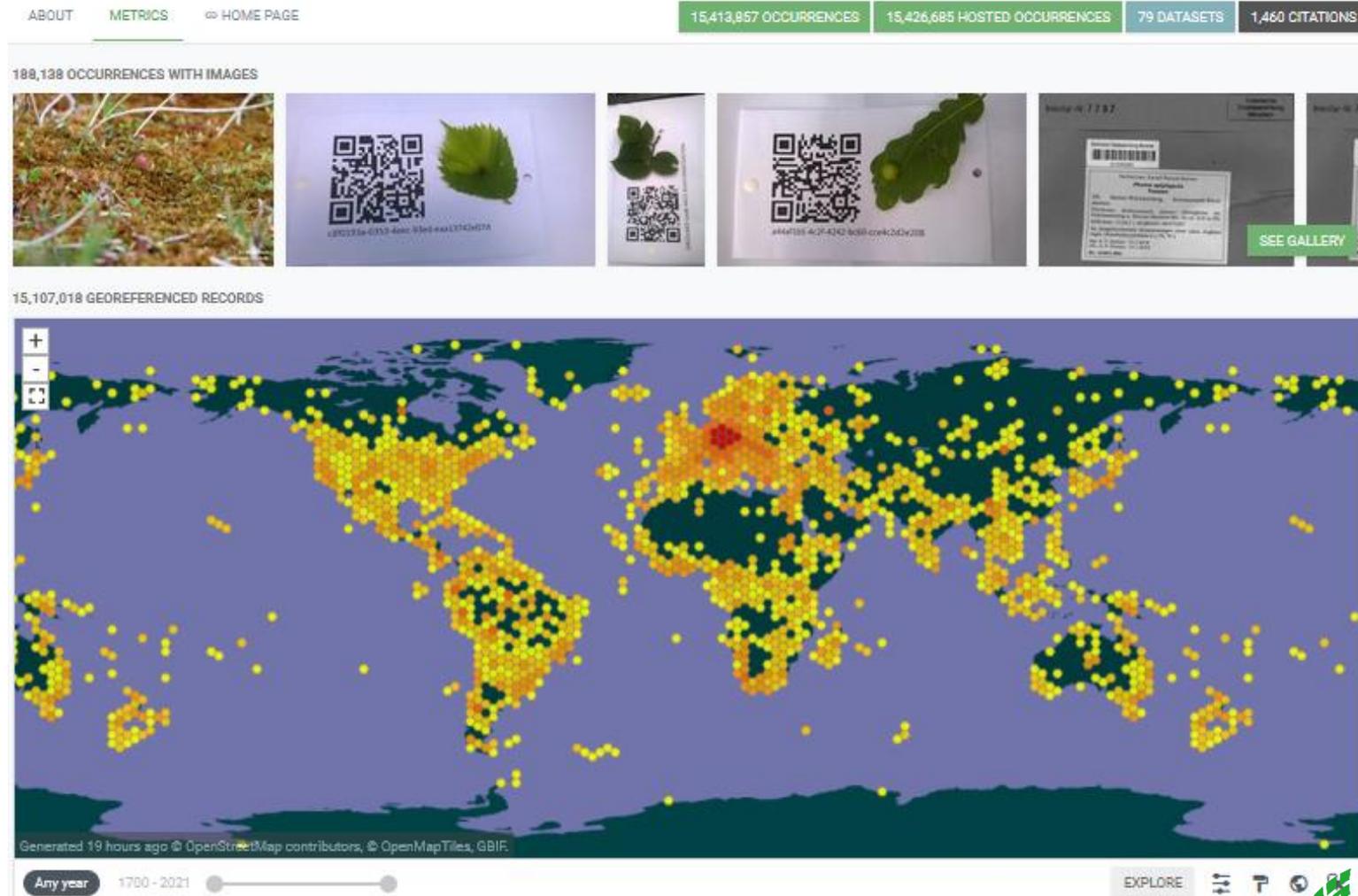
Hosting: [80 datasets](#) ([2 publishers](#) • [2 countries](#))

CONTACTS

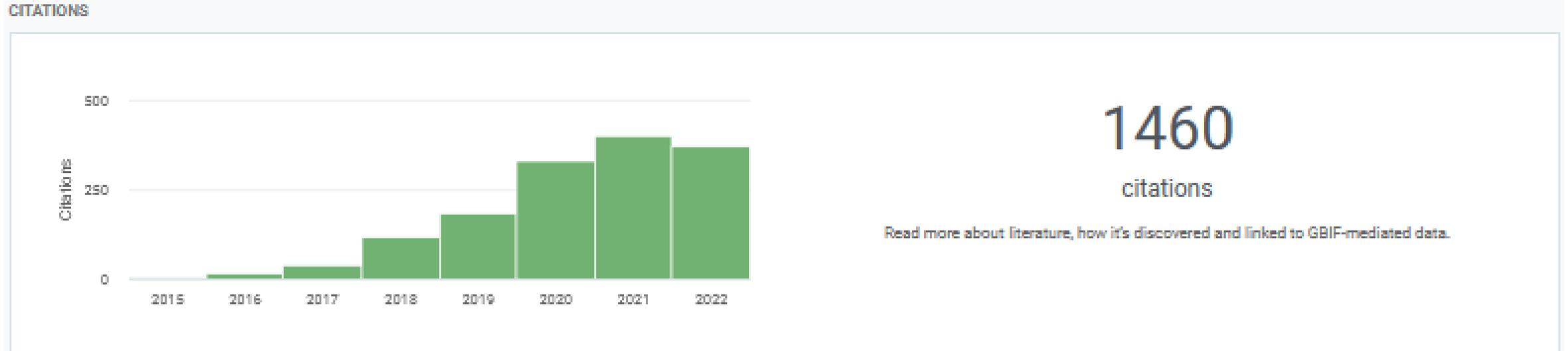
Staatliche Naturwissenschaftliche Sammlungen Bayerns	SNSB IT Center Technical point of contact	Dagmar Triebel Administrative point of contact
--	--	---

SNSB Data Publication at GBIF Portal

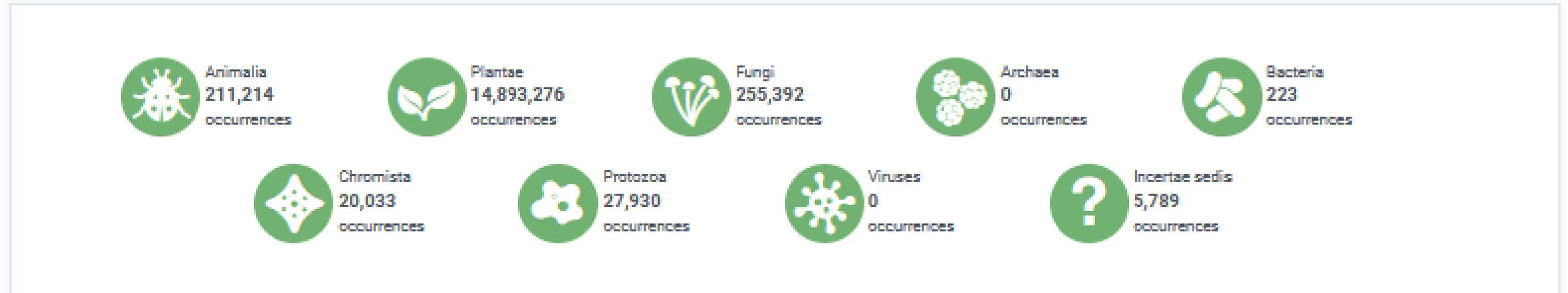
Staatliche Naturwissenschaftliche Sammlungen Bayerns



SNSB Data Publication at GBIF Portal



OCCURRENCES PER KINGDOM

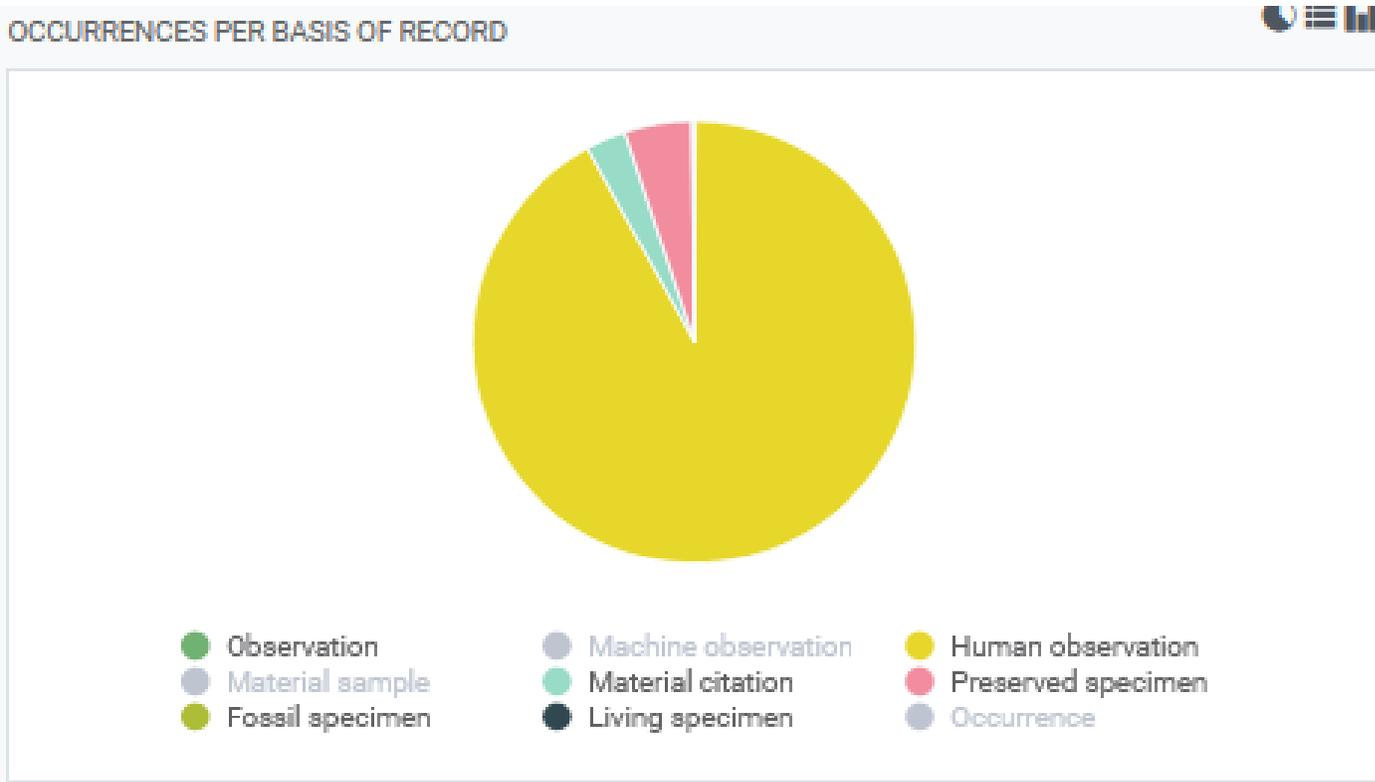


SNSB Data Publication at GBIF Portal

The screenshot displays the GBIF portal interface. At the top, a green navigation bar contains the GBIF logo, menu items (Get data, How-to, Tools, Community, About), and utility icons (refresh, language, search, chat) along with a 'Login' button. Below this, a secondary green bar shows the 'Datasets' section with a search icon and a notification badge with the number '2'. The main content area is titled 'SEARCH DATASETS | 47 RESULTS' and features a filter menu on the left with categories: ALL, OCCURRENCE (selected), CHECKLIST, SAMPLING EVENT, and METADATA. The filter menu includes dropdowns for Publisher (with 'Staatliche Naturwissenschaftliche Sammlungen Bayerns' checked), Host, Publishing country or area, Project, and Licence. The search results are displayed in a list format, each entry including a title, a URL, the publisher name, occurrence and citation counts, and a 'DOWNLOAD AS TSV' button. Three datasets are visible:

- Floristic records from survey studies of the Bayerisches Landesamt für Umwelt**
URL: http://wiki.bayernflora.de/web/Floristic_records_from_survey_studies_of_the_Bayerisches_Landesamt_f%C3%BCr_Umwelt
Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns
7.549.013 occurrences | 256 citations
- Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria**
URL: https://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%80_occurrence_data_online
Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns
6.929.847 occurrences | 460 citations
- IBF Monitoring of Vascular Plants**
URL: <http://www.diversitymobile.net/wiki/IBFplantscoll>About>
Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns
198.240 occurrences | 334 citations

SNSB Data Publication at GBIF Portal



OCCURRENCES PER COUNTRY OR AREA

Country or area	Count
Germany	15,140,276
Brazil	22,825
Austria	18,173
Italy	10,852
South Africa	8,782
United States of America	7,783
Czechia	7,041
Switzerland	6,306
Australia	6,088
France	5,631

Dataflow of occurrence data

