Node specific IT architecture, Data Interoperability and Project Management
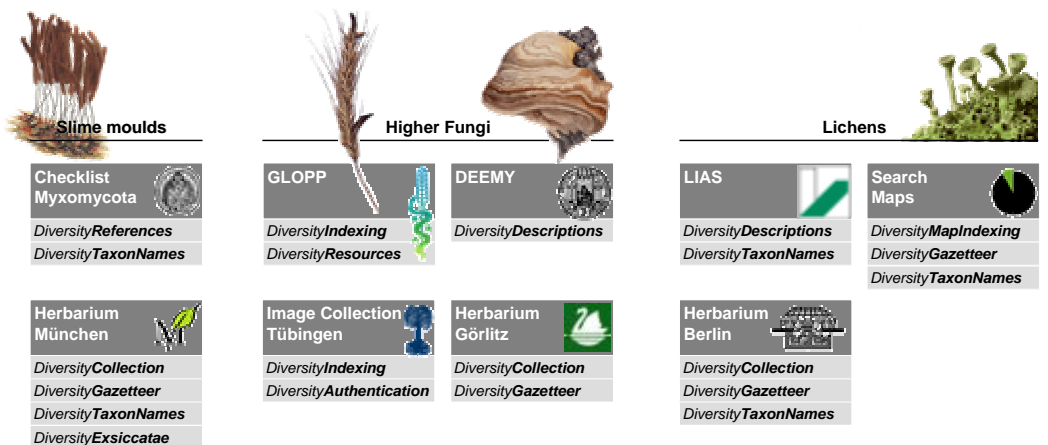
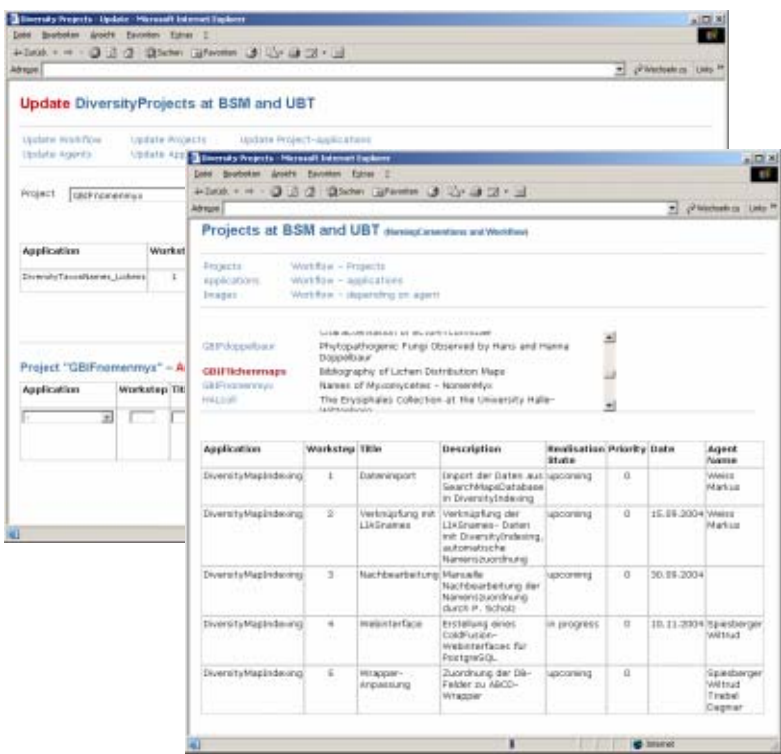D. Triebel[1], W. Spiesberger[1], M. Weiss[1], J. Ingenhaag[1], D. Neubacher[2], G. Rambold[2]

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The German GBIF Node for Mycology was installed as service centre for mycological and lichenological biodiversity data in Germany. Starting in October 2002, the node project administrated a server network, gave technical as well as scientific advice to the individual sub-projects, transferred data from proprietary databases into database components of the *Diversity Workbench*, developed special web interfaces with search function, and built up a sustainable infrastructure that guarantees long-term maintenance of the GBIF-D node.

A project management system for special organizational requirements of the node (*DiversityProjects*) was designed and built up.

GBIF-D Mycology projects and *Diversity Workbench* components

The German mycological network started with 9 partner institutions and 11 sub-projects, 9 of which are collecting and providing biodiversity data. The general concept is to collect and present online a large amount of high quality data especially from ecologically and commercially important organisms. The database structure is based on the *Diversity Workbench* database suite, being partly based on developments accomplished during the GLOPP project (BIOLOG Biodiversity Informatics). A special *Diversity Workbench* subproject is devoted to the GBIF relevant design of database applications.

Java-based database client *DiversityNavigator* for online-access

ColdFusion based web interface for queries of the local databases

Data provider: Botanische Staatssammlung München

ABCD Dataprovider for the GBIF portal

Transfer of the data model

Transfer to Linux-based PostgreSQL database

SQL

XML

XML

PostgreSQL databases for access with web interfaces

BioCASE Wrapper
SPICE Wrapper

Data from diverse sources were imported into database applicatons of the *Diversity Workbench*

local clients

The next version of *Diversity Workbench* modules will use MS SQL-Server as a database.

For editing the data local clients were developed

Links to publications of the GBIF-D Mycology Node are accessible via the portal
www.gbif-mycology.de