



## Task profile

### SysTax

#### **Systematics and Taxonomy**

Botanical and zoological systematics (concept based)  
Hierarchical storage of names and the corresponding potential taxa  
Flexible multi-level synonymy  
Storage of names of experts  
Storage of vernacular names  
Linkage of taxa with literature and specimens, characters and character states  
Specification of conservation levels and POSS informations  
*Outputs:*  
Data output in formats suitable for direct use in revisions

#### **Literature**

Storage and administration of references, cross-referencing literature data and taxa  
Administration of reprint collections  
Linkage of literature references with Potential taxa  
Linkage of literature references with informations on taxa (image, text and sound data)  
*Outputs:*  
Literature lists

#### **Botanical garden**

Storage and administration of accession data of an unlimited number of gardens and arboreta, determination with a determination history  
Determination of accessions and determination history  
Retrieval of accession lists  
Linkage of accessions with geographical data (distribution, origin)  
Creation of seed catalogues  
Mailing lists for seed catalogues and seeds  
Linkage to pictures  
*Outputs:*  
Index seminum, accession lists, printing of labels of thermo-transfer printer, address labels for sending the index seminum and data labels of the seed material

#### **Collection**

Storage and administration of label data of an unlimited number of collections (herbaria and zoological collections)  
Determinations and a determination history  
Administration of loans and material exchange (herbaria)  
Linkage to image, text and sound data  
*Outputs:*  
Printing of labels, revision labels, accession lists, letters for loans, reminders, exchange, and loan return  
Stock lists as tab delimited file  
Reports via WWW queries

#### **Information on Taxa („IOT“)**

Information data, alternatively consisting of any combination of texts, pictures, sound files, video sequences, and OLE objects  
Molecular data with linkage to the EMBL/EBI data base  
Linkage of single informations to “information packages”  
Linkage of informations to keywords  
*Outputs:*  
Reports via WWW queries

## **Information objects (texts, pictures, sound files, video sequences and OLE objects)**

Storage and retrieval of these data objects

Storage of pictures can (a) high resolution files, (b) low resolution files for web display, and (c) as thumbnails

Linkage with „information on taxa“, literature references, collection objects, and garden accessions.

Assignment of rights for web display and download of high resolution pictures

## **Data access rights**

System of access rights for collaboration of many persons and institutions (living collection and “dead” collections, literature) on the basis of “individual user”, “institution” and “world” in all program modules

Rights on taxa and data sets of “IOT”

## **Address**

Administration of addresses, linkage to users and institutions

## **Distribution**

Storage of several kinds of „distribution standards“ (geography, biogeography, plant sociology)

## **Web-queries**

Quick search

Data access via taxon: potential taxa, vernacular names, literature, „IOT“ experts, links to search machines (e.g. Google) and other databases

Addresses

Literature: references, linked taxa, pictures (scanned text, esp. descriptions)

Pictures, sound files

## **Data exchange**

Import of taxonomic data and collection data via flat file interfaces, developed in collaboration with the EDIS project and the GBIF partners