

JACQ

multiple taxonomies and classifications
over time:
dynamics and manifestations in physical
specimen and digital data curation

Concepts

Processes and Results

Coherence & Taxonomic Backbones:

single point entry reference systems

taxonomic backbones of GBIF / CoL / Euro+MED

maybe to simplistic view on complicated matter ?

Agents

Scientists & End-Users: individual and local needs and resulting preference

Time Slices

Chronologies & Moving targets: developing systems based on evolving methodologies

Elements

Floras and Checklists

- Pure listings (+geogr. distr., conservation status)
Liste der Gefäßpflanzn Mitteleuropas; Rote Listen Österreichs
- fully elaborate taxon descriptions, including material and literature
Flora Neotropica Monograph Series

Systems and Classifications

- Taxonomic level (= rank)
- Hierarchy

Monographs and Taxonomic Treatments

- Basic Information for identity of a taxon

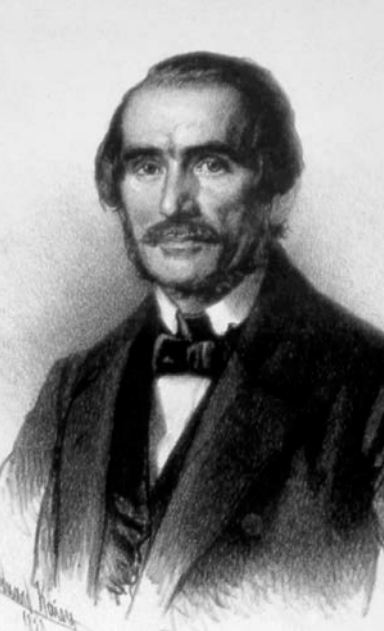
Phylogenies and Semantics

- Relevance for large scale application and analyses



General Botany & Systems & Floras & monographic treatments / Global Scope / historic > recent

Europe



Vienna

Flora of Austria

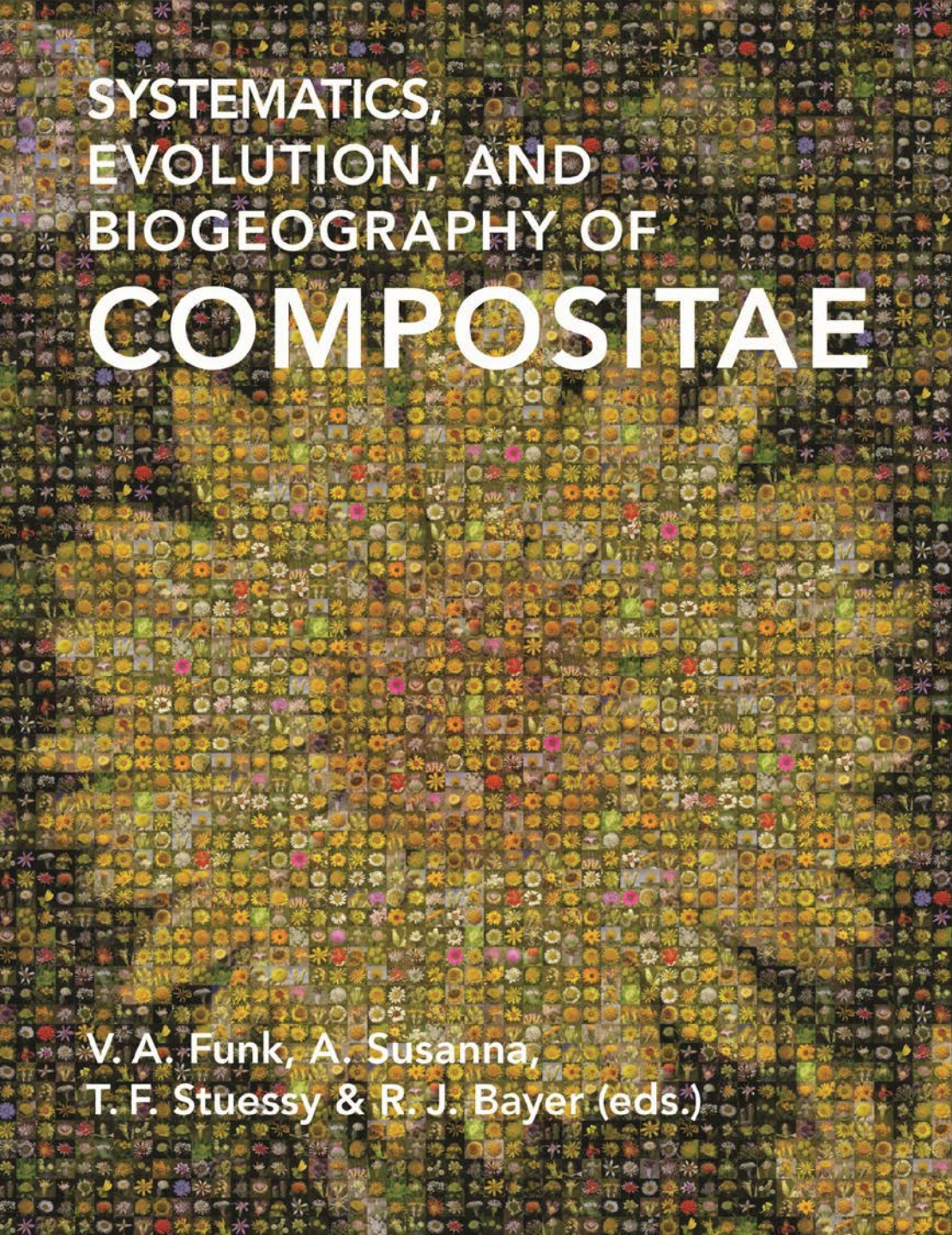


Flora of the Eastern Alps

Mediterranean



Traiskirchen



SYSTEMATICS,
EVOLUTION, AND
BIOGEOGRAPHY OF
COMPOSITAE

V. A. Funk, A. Susanna,
T. F. Stuessy & R. J. Bayer (eds.)

Funk, V. A., Susanna, A., Stuessy, T. F. & Bayer, R. J. (2009) *Syst. Evol. Biogeogr. Compositae* : [i-vii] viii-xxxiv, [1]-965.

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pending

Nyman

Conspectus
Floræ Europææ

CONSPECTUS FLORÆ EUROPÆÆ.

AUCTORE

CAROLO FRIDER. NYMAN.

RANUNCULACEÆ — POMACEÆ.

ÖREBRO (SUECLÆ).

TYPIS OFFICINÆ BOHLINIANÆ.

1878. 1882

Handexemplar meines vielgeliebten,
unvergesslichen Mannes.
Maria von Halácsy.

CONSPECTUS

FLORAE GRAECAE

AUCTORE

E. DE HALÁCSY

VOLUMEN I



LIPSIAE

SUMPTIBUS GUILIELMI ENGELMANN

1901.

(p. 1-56, 1901)

Global Scope Flora



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Isotria medeoloides (Pursh) Raf.

Vulnerable Species

Data Providers

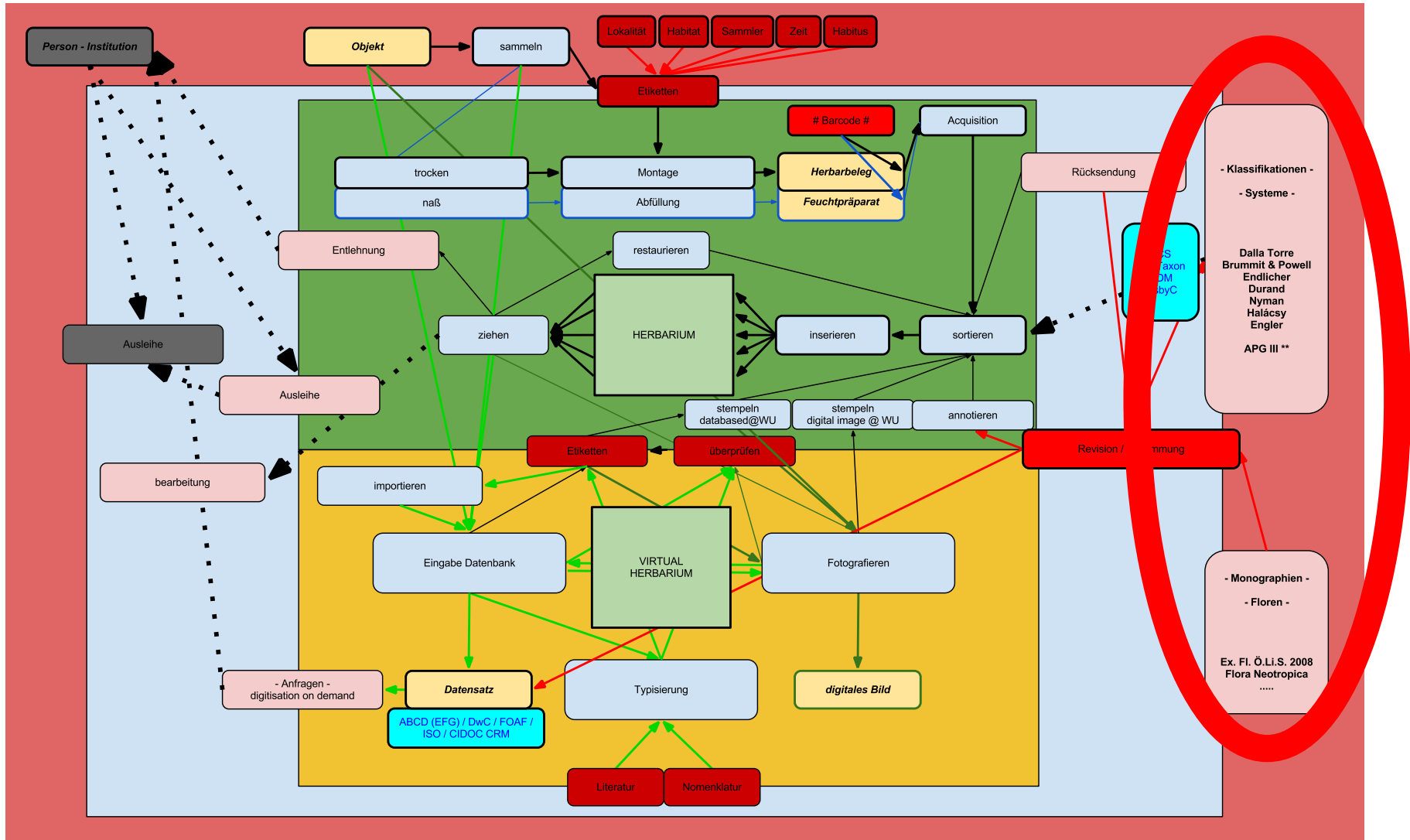
Resources

Comments

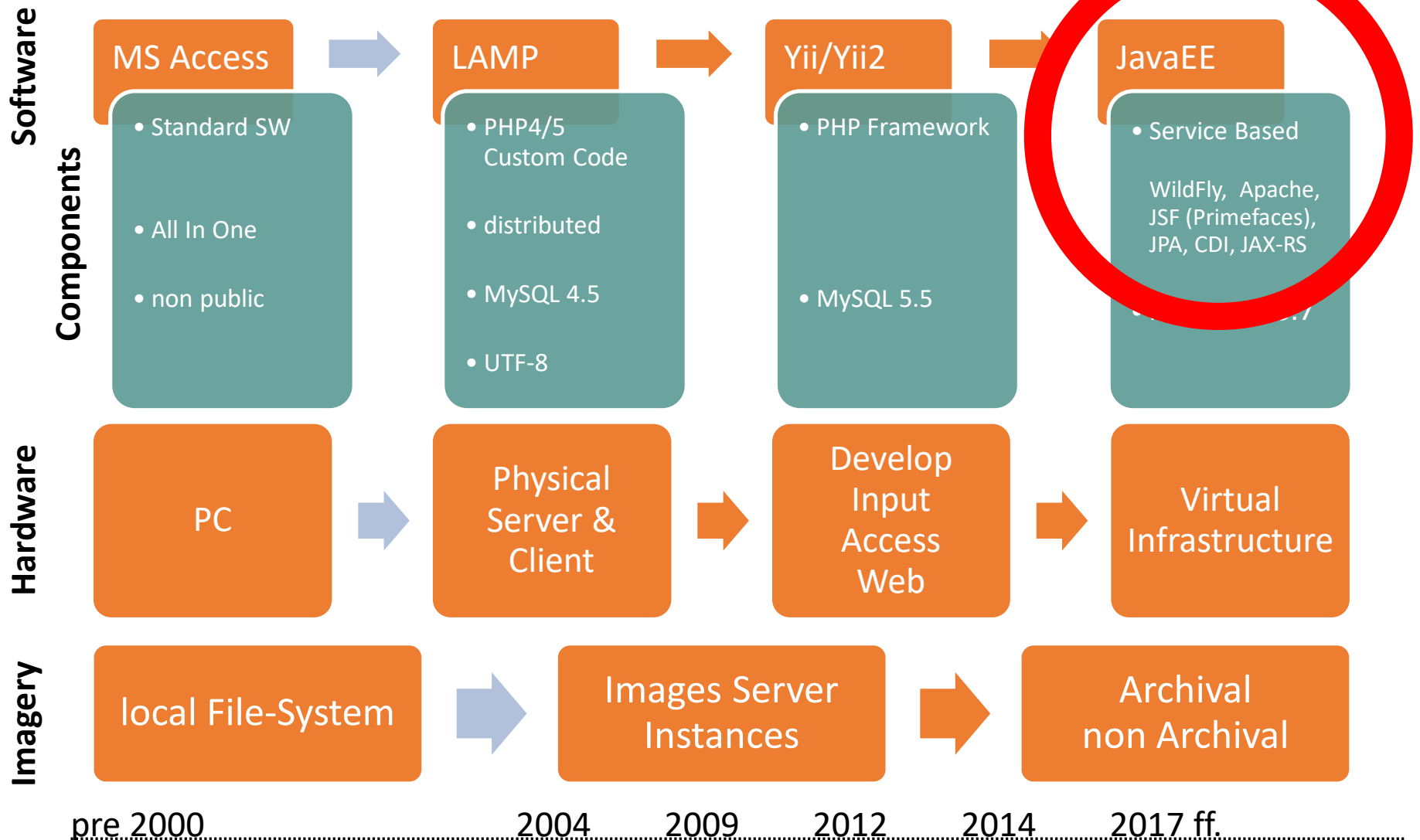
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<http://www.worldfloraonline.org/>

Workflow Diagram



System Chronology: SW, HW, Digital Imagery



JACQ Classifications – Elements

Content

- Taxa
 - Taxon Names (incl. protologue, status, rank)
 - Hierarchies and Synonyms (hetero- and homotypic)
 - Specimens (incl. curatorial data)
 - Description – wanted

Referencing

- Publications – incl. online referrers (where available)
- Services – incl. URL, parametrizing
- Persons – incl. external Ids (VIAF, HUH, etc.)

Linking

- UUID (via internal IDs)

JACQ Classifications and Floras

Dalla-Torre & Harms 1900-1908 (Englerian System) – families and higher ranks

APG I-IV (1998, 2003, 2009, 2016)

PPG (2016) J. Syst. Evol. 54 (6): 563–603

Soreng et al 2015-03 – Gramineae

Funk et al. 2009 – Compositae

Various Authors (2007) Fam. Gen. Vasc. Pl. [Kubitzki] vol. 8: Asterales

Jacquin (1762) Enumeratio stirpium in agro vindobonensi

Jacquin (1773-1778) Florae Austriaceae vols. 1-5

Neilreich (1846) Flora von Wien

Halácsy (1896) Flora von Niederösterreich

Janchen (1956-1960) Catalogus Florae Austria

Adler & Mrkvicka (1983) Flora Wiens

Exkursionsflora von Österreich Ed. 3 (2008)

Annonaceae – family GSD for CoL – work in permanent progress

<http://legacy-living.jacq.org/index.php?r=dataBrowser/classificationBrowser/index>

Angiospermae A. Br. & Döll

- Amborellales Melikian, A. V. Bobrov & Zaytzeva
- Nymphaeales Salisb. ex Bercht. & J. Presl
- Austrobaileyales Takht. ex Reveal

Mesoangiosperms APG

Magnoliids APG

- Canellales Cronquist
- Piperales Bercht. & J. Presl
- Magnoliales Bromhead
 - 13 Myristicaceae R. Br. S
 - 14 Magnoliaceae Juss.
 - 15 Degeneriaceae I. W. Bailey & A. C. Sm.
 - 16 Himantandraceae Diels
 - 17 Eupomatiaceae Orb.
 - 18 Annonaceae Juss. S

Chatrou, L. W., Pirie, M. D., Erkens, R. H. J., Couvreur, T. L. P., Neubig, K. M., Abbott, J. R., Mols, J. B., Maas, J. W., Saunders, R. M. K. & Chase (2012)

Anaxagoreoideae Chatrou, Pirie, Erkens & Couvreur

gen. Anaxagorea A. St.-Hil. S

Maas, P. J. M. & Westra, L. Y. T. (1985) Bot. Jahrb. Syst. 105 (2): 145-204.

- = Rhopalocarpus Teijsm. & Binn. ex Miq.
- = Pleuripetalum T. Durand
- = Eburopetalum Becc.

Anaxagorea allenii R. E. Fr.

Anaxagorea angustifolia Timmerman

Anaxagorea borneensis (Becc.) J. Sinclair

Eburopetalum borneense Becc.

= Anaxagorea ramiflora Boerl.

Anaxagorea brachycarpa R. E. Fr. S

Anaxagorea brevipedicellata Timmerman

Anaxagorea brevipes Benth. S

Anaxagorea crassipetala Hemsl. S

Anaxagorea dolichocarpa Sprague & Sandwith S

Anaxagorea floribunda Timmerman

Anaxagorea gigantophylla R. E. Fr.

also used in:

Steyermark, J. A. & Berry, P. E. (1995) Fl. Venez. Guayana 2: 415-418, fig. 345-349.

actions



Reason for these Efforts

Curation of Collections and Data

- FAIR Data Principles

Findable Accessible Interoperable and Re-Usable <https://www.force11.org/>

- Dynamic Virtual Rearrangement of Physical Holdings
- High Amount of (unmarked) Type Material
- Avoid Duplication of Efforts
- Preservation of Expert- and Curators-Knowledge
- Statement by Beck 1889 as the first curator of the Botany Department at the NHM in Vienna

„Notoriously understaffed “

Outlook 2018/2019

Content

- Aggregate relevant botanical information for the extant Flora of Austria
- Identifying nomenclatural issues and Lecto-Typification of relevant names

Technical Infrastructure

- Moving Classification Browser to JavaEE environment
- Adapting Functionality and display of CB for external usage
- Utilization for query and display of VH
- Integration of external sources for display of VH (in addition to Tropicos)

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THANK YOU