

Georeferencing @NHM-Vienna

-  Federal Chancellery
Republic of Austria
-  Federal Ministry
Republic of Austria
Sustainability and Tourism
-  Federal Ministry
Republic of Austria
Education, Science
and Research

Framework

Historical Setting

Imperial k.k. Hof- & Naturalienkabinett \equiv **legacy data**

Organisation Departments - <https://www.nhm-wien.ac.at/en/research>

Anthropology (¹₂): 440k – 28k (6%) / not exposed

Botany (**3**¹): 5.5m – 298k (5,4%) / 105k – **19k** (17%) *exactness*

Geology&Palaeontology (**4**¹): 5.7m – 50k (0,9%) / 46k

Mineralogy&Petrography (**5**¹): 170k – 61k (35%) / not exposed

Prehistory (⁷₂): 1.3m – 78k / ?

1. Zoology Vertebrates (**4**¹,¹₂): 1.2m – 201k (17,5%) / not exposed

2. Zoology Insects (**7**¹): 11m – 52k (0,4%) / 4k

3. Zoology Invertebrates (**5**¹): 3m – 42k (1,4)/ not exposed

¹ collections with objects principally location data relevant

² collections with position of objects inside location relevant

Outline Content

Geographic Data

Coverage: Global

Relevance: Global-Continental-National-Regional-Local

Dimensions: Points & Lines & Polygons & 3D

Reference Systems: all ?

BMN Mercator projection based on **Ferro Meridian** (17°40' W Greenwich)

Mapping the Middle European **Flora** – **3' x 5' grids** (N-Sea – SAlps)

Resources:  - - - - > Austrian Map online <http://www.austrianmap.at/>

Data Entry: Manual - - - > X/Y coordinates + exactness (m) (+ Quadrant = GRID M-Eur)

Ongoing Collecting Activities: national reporting obligations – NUTS Codes Level 3

Digitization Project @ NHM Vienna

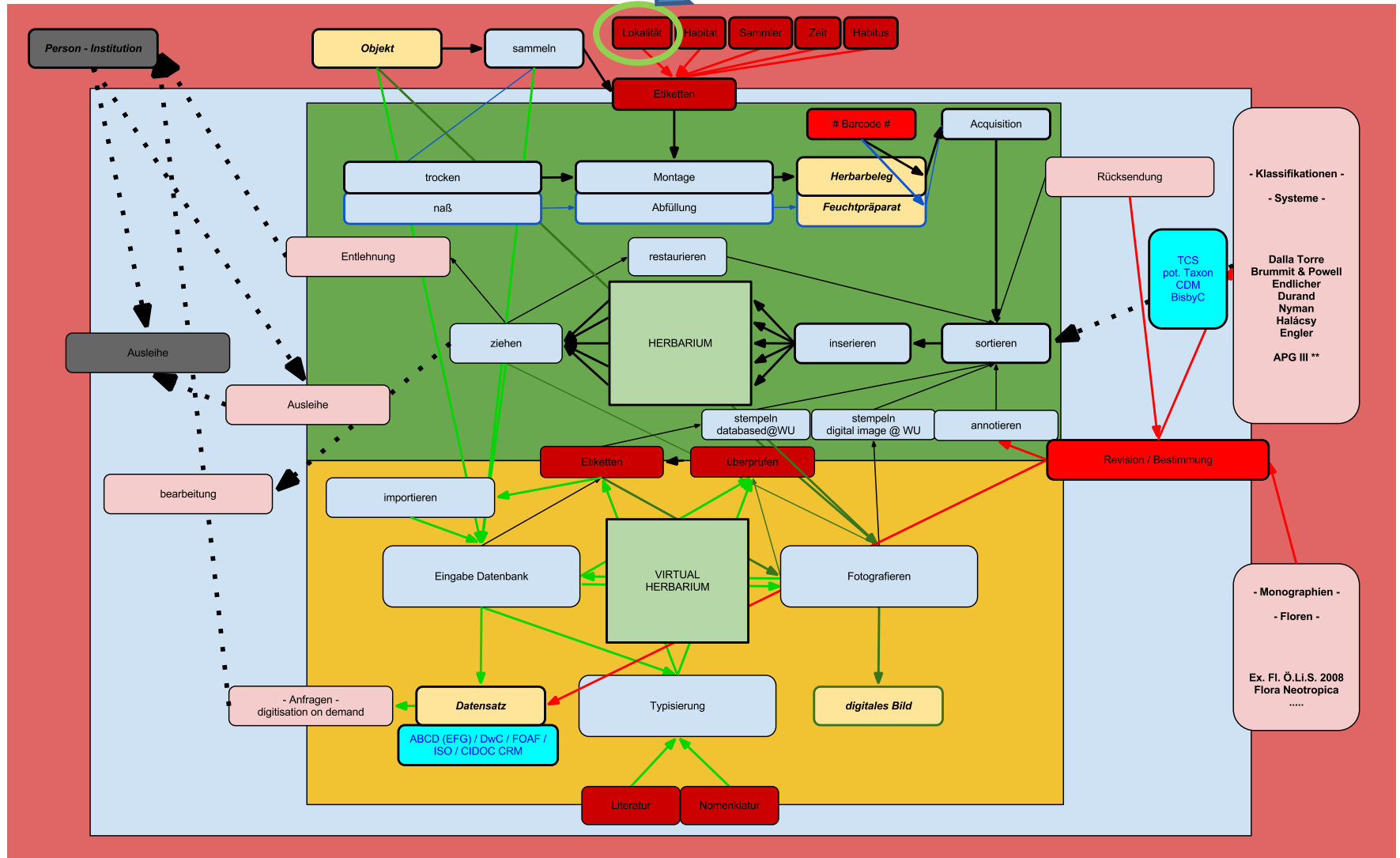
3 years projects

Combination of location data from various data sources

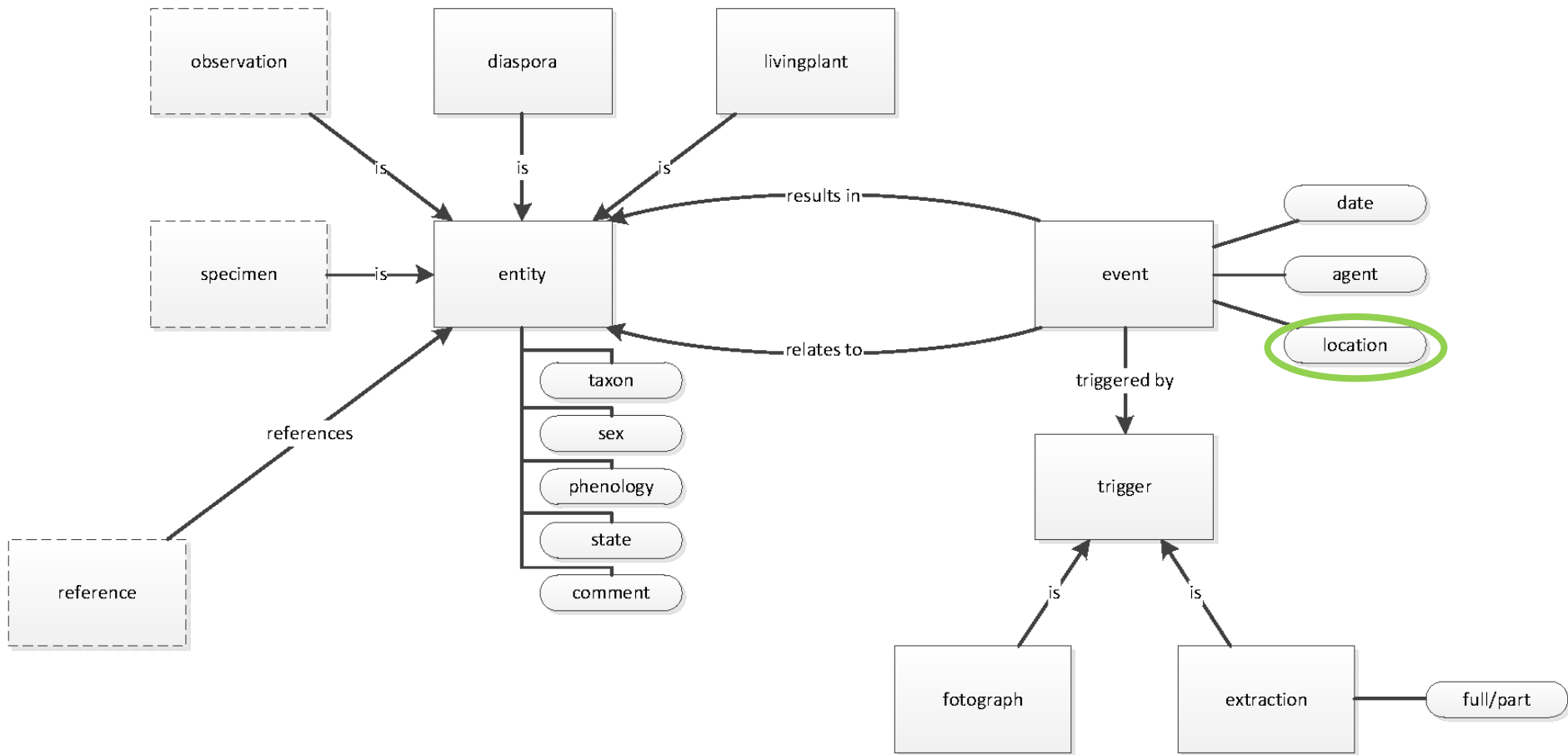
17k unique location reached received through pooling
collection management systems
by far not all georeferenced

Historical Location Data still to be processed

Workflow Diagram



Data Model



labels

exsiccata genavensia

72. *Gentiana purpurea* L., Sp. Pl.: 227. 1753 \equiv *Pneumonanthe purpurea* (L.) F. W. Schmidt in Arch. Bot. (Leipzig) 1/1: 9. 1796 \equiv *Coilantha purpurea* (L.) Borckh. in Arch. Bot. (Leipzig) 1/1: 25. 1796.

Gallia: in latere orientali cacuminis "Pointe-du-Château" montium "les Aravis", supra casas "Vormy" in ditone pagi "Nancy-sur-Cluses" provinciae Sapaudiae superioris, 2000 m supra maris aequor. In pascuis.

9 septembri 1970

leg. A. Charpin, M. Dittrich
& M.-A. Thiebaut

labels

HERBARIUM J. VETTER.

Name: *Gentiana nivalis*
Linne'

Standort: *Tirol; Krimmler*
am Lesacher Wiesenberge
bei Fals,
24. VII. 1913.


leg. JOHANN VETTER.

labels


*Aegilops
cylindrica*

Vienna Open Government Data

Wien Umweltgut




[erweiterte Suche](#)


Karteninhalt 

☒ **Tiere, Pflanzen und ihre Lebensräume**

☐ Netzwerk Natur


☒ **Artenkartierungen (Tiere und Pflanzen)** 
[Information](#)

☐ Fauna (Tiere) – dzt. Erhebungsstand, nicht flächendeckend


☒ **Flora (Pflanzen, Stand: 2003)** 
[Information](#)

☐ Flora – Raumeinheit

☒ **Flora – Großraum**

☐ Biotoptypenkartierung 
[Information](#)


☐ Historische Landschaftsentwicklung


☐  Info-Tafeln

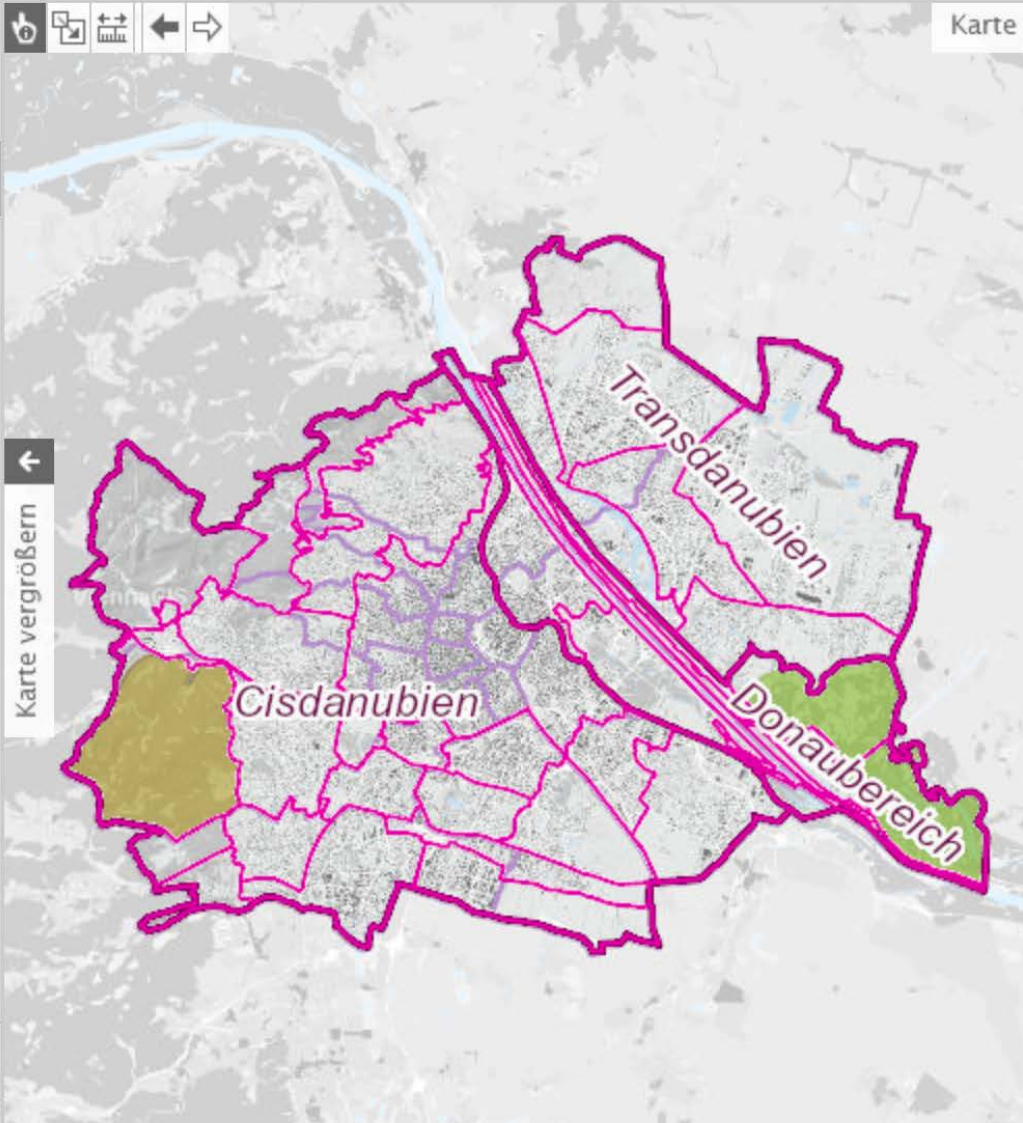
☐ **Bäume und Grünflächen in Wien**

☐ **Weinbau in Wien**


☐ **Gewässer und Boden**

Suche: Ergebnis 

Grundstückssuche 



Karte

Karte vergrößern 

12.8 km

Maßstab ca. 1:250000

© ViennaGIS

NHM Data in GBIF

Period of +/-10 years digitization Type Material
JSTOR PLANTS
included georeferencing

3 times more the just catalogue and digitize

<https://www.gbif.org/dataset/7f5260c2-f762-11e1-a439-00145eb45e9a>

Future / Vision

desiderata

Establish a repository for „Expeditions“

so Objects can be attached to geographically

Biogeomancer style service temporal capacities

Text mining using HCR --> feeding B-G-M --> feed back to local systems (?)

pooling georeferenced locations across institutions / worldwide – leveraging online services

Austria: **BEV**

A close-up photograph of several bright orange flowers with five petals each. The center of the flowers shows yellow stamens and a central pistil. A green, unopened flower bud is visible in the lower foreground. The background is a soft, out-of-focus green. The text "THANK YOU" is overlaid in white, uppercase, sans-serif font on the left side of the image.

THANK YOU

MOBILISE W02, WARSZAWA, 2020-02-11