



State of Open Collections in Austria

Heimo Rainer 

Open Science WS, NHMW // ZOOM, 2021-02-16



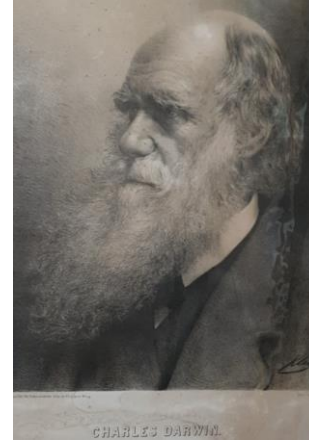
Austrian Collections Landscape

- Federal: Bundesmuseen (ÖNB * 14c.) & Universities (UV * 1365)
- Regional: State Museums (* 19c.), Corporations, Associations
- Local: Stadtarchiv Baden / Rollettmuseum (* 1810)
Stadtmuseum Villach (* 1873)
- Clerical: Abbeys (* [7c.] 8c. - * 11c.)
- Private: Professional & CS



THE ABBEY

Ut in omnibus glorificetur Deus!



* 1809 † 1882

* 777



Stift Kremsmünster



Benediktinerstift
ADMONT

* 1074



* 1089



**STIFT
MELK**
BENEDIKTINERKLOSTER



Stift * 1114
Seitenstetten



Natural History Collections in Austria

Nationale Partner von GBIF-Austria

Collaboration in Data Sharing

- GBIF Austria 2001

ODINS 2007 / 2012

- DiSSCo Austria 2019



Bio- & GeoDiv Standards

TDWG Standards Journal Community Conferences About

News 

Standards

From [Darwin Core](#) to [WGSRPD](#): TDWG standards aid the exchange of biodiversity information.

Image by sutirta budiman

 / Standards

TDWG standards have a **status and category**. Our standards are also available as a collection on [FAIRsharing](#), which places them in context with databases that implement them and data policies that endorse their use.

Current standards



Audubon Core



Darwin Core



GUID applicability statements

 Edit this page

Current standards

Draft standards

2005 standards

Prior standards

www.tdwg.org

Home

What is BioCASE

Products

Provider Software

Helpdesk

Biological Collection Access Service

Biological collections at your fingertips

BioCASE 

Home >

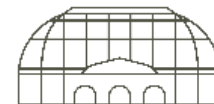
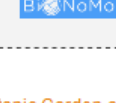
Ursus maritimus

Search

A network of primary biodiversity repositories

The Biological Collection Access Service (BioCASE) is a transnational network of primary biodiversity repositories. It links together specimen data from natural history collections, botanical/zoological gardens and research institutions worldwide with information from huge observation databases. The aim is to make the world's data on biodiversity data freely and universally accessible on the Internet through data portals and web services, a goal that BioCASE shares with related initiatives such as the [Global Biodiversity Information Facility \(GBIF\)](#) and [Integrated Digitized Biocollections \(iDigBio\)](#). In the past years, BioCASE has developed into a widely accepted standard for data sharing and has laid the foundations for several thematically - both taxonomically and geographically - specialized networks (see box to the right). [Read more](#)

Data Networks using BioCASE



BG
BM
Botanischer Garten &
Botanisches Museum
Berlin

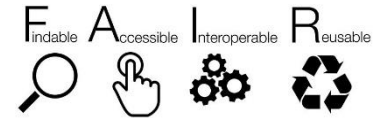
The [BioCASE secretariat](#) is based at the [Botanic Garden and Botanical Museum Berlin](#) and will be happy to answer any questions regarding BioCASE.

BioCASE is the GBIF Participant Node for the [Consortium of European Taxonomic Facilities](#).

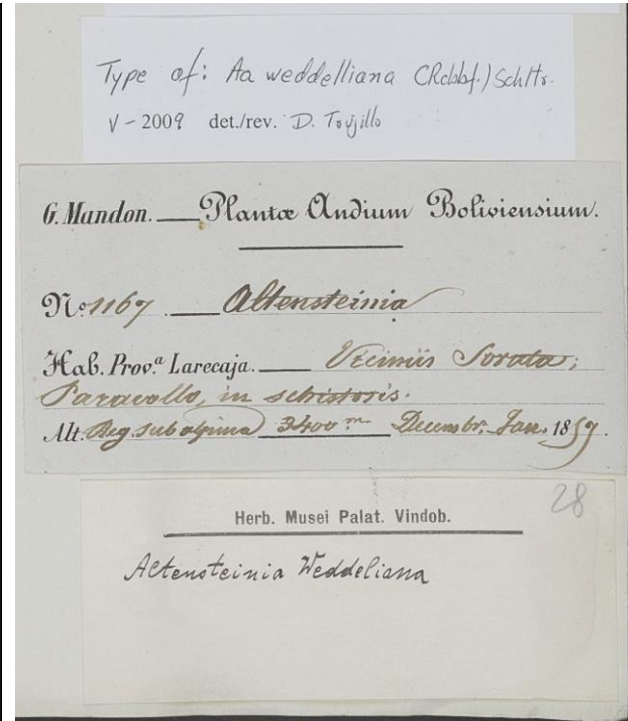



www.biocase.org

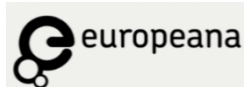
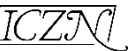
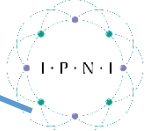
Collection Objects („Meta-“) Data -->



Specimen in Herbarium W
Collectio Reichenbach fil. Orchids 616



Stable identifier	https://w.jacq.org/W0075916
Collection Herb.#	W-Rchb.Orch. 0075916
Stored under taxonname	Aa weddelliana (Rchb. f.) Schltr.
Family	Orchidaceae
Det./rev./conf./assigned	Trujillo
Ident. history	Mandon: <i>Altensteinia</i> ; Reichenbach: <i>Altensteineia weddelliana</i> ; Trujillo 2009: <i>Aa weddelliana</i> ;
Holotypus for	<i>Altensteinia weddelliana</i> Rchb. f.
Typified by	Vitek 2017
	<i>Xenia orchid.</i> 3 (1): 19-20 (1878-05-10)
Collector	 Mandon, G. 1167 (link to CETAF Botany Pilot)
Date	1856-12



<https://w.jacq.org/W0075916>

(Metadata) Standards

PIDs / ∞ Portals



<https://www.gbif.org/occurrence/1701346424>

<https://www.europeana.eu/en/item/11601/HERBARWXNHMVXAUSTRIAX1198666>

Assessment of Bio- & Geo-Collections in Austria

	Uni Graz B	Uni Ibk B	Uni Sbg B/P,G	Uni Vie B,Z	Graz Jo B	TLMF B,Z/P,G	OÖLKG B,Z/P,G	INATURA B,Z/P,G	HdN A/B,Z/P,G	NHMW A/B,Z/P,G
N-Objects	1.183.500	173.100	152.662	1.539.600	658.685	2.842.550	16.983.000	279.065	760.971	26.781.300
p-digInventory	11%	62%	51%	8%	15%	27%	10%	67%	32%	6%
p-digMedia (2D)	1%	0%	0%	4%	8%	1%	1%	0%	7%	1%

A – Anthropology

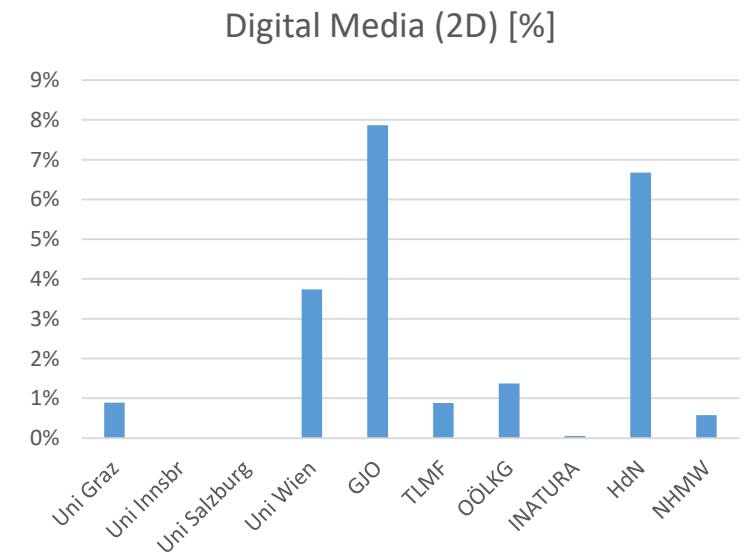
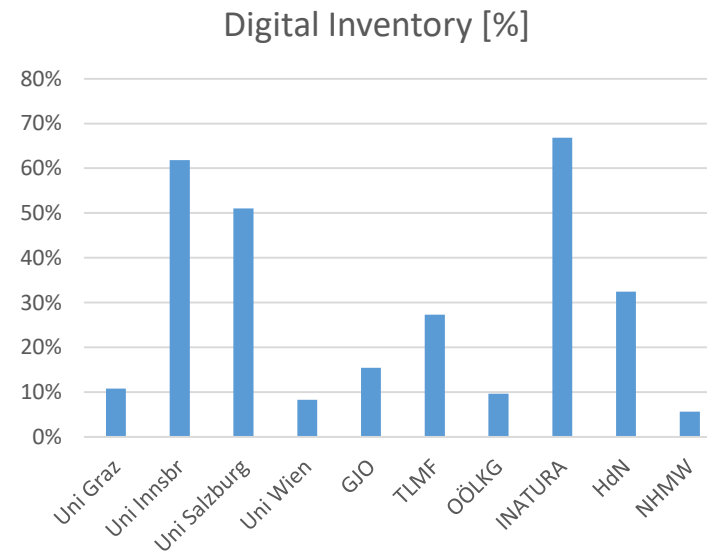
B – Botany

Z – Zoology

P – Paleontology

G – Geology

Assessment of Bio- & Geo-Collections in Austria



Outlook



MIDS & OpenDS <---> extended specimen consultation
enabling semantic web pipelines

- Austrian FAIR Implementation Network
- European Open Science Cloud (EOSC) & Open Collections & research object

<https://ec.europa.eu/research/openscience/index.cfm?pg=open-science-cloud>

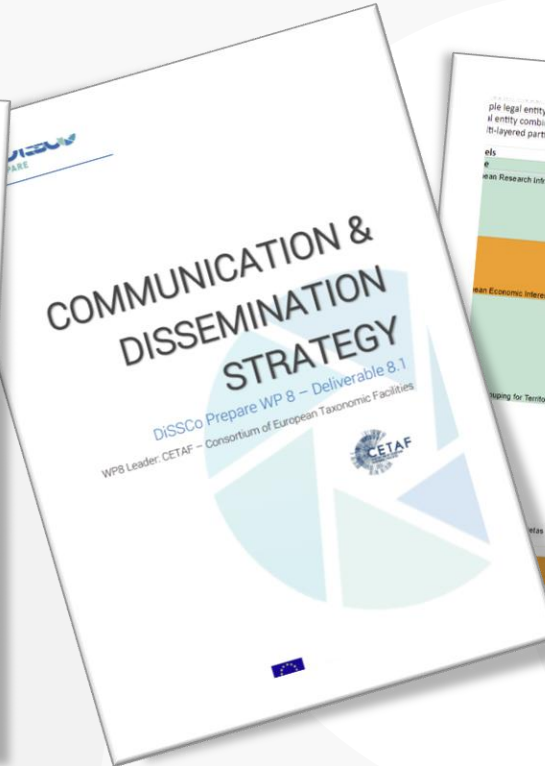
First outputs



Main Cost Parameters identified
WP4



OpenDS and MIDS standard development
WP6



Communication Strategy
WP8

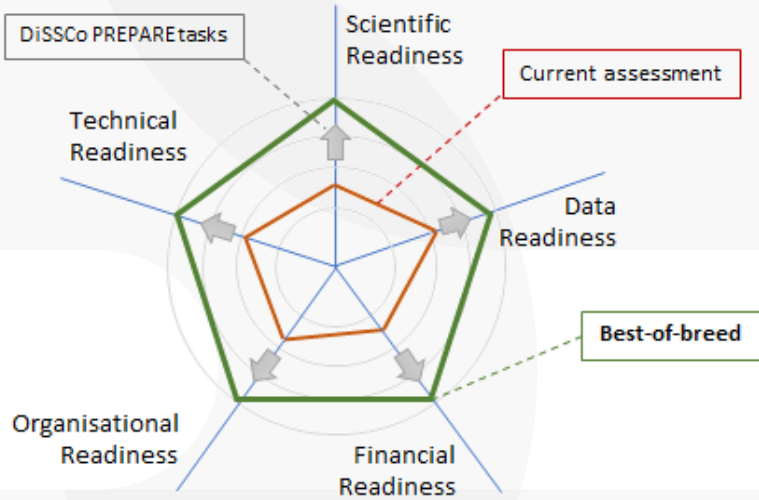
Profile for each institutional form	Type of legal personality
European Research Infrastructure Consortium (ERIC)	European Legal Person (International Organisation)
European Economic Interest Grouping (EEIG)	European Legal Person (Form of association)
European Economic Interest Grouping (EEIG)	European Legal Person (Between public sector)
Grouping for Territorial Cooperation (EGTC)	European Legal Person (set up in one or more companies) (Public LSA)
European Economic Interest Grouping (EEIG)	Association - Ltd
European Economic Interest Grouping (EEIG)	Association International (non profit)

LE options set and now evaluated
WP7



PREPARE

Improve Implementation Readiness Level
Deliver the construction masterplan

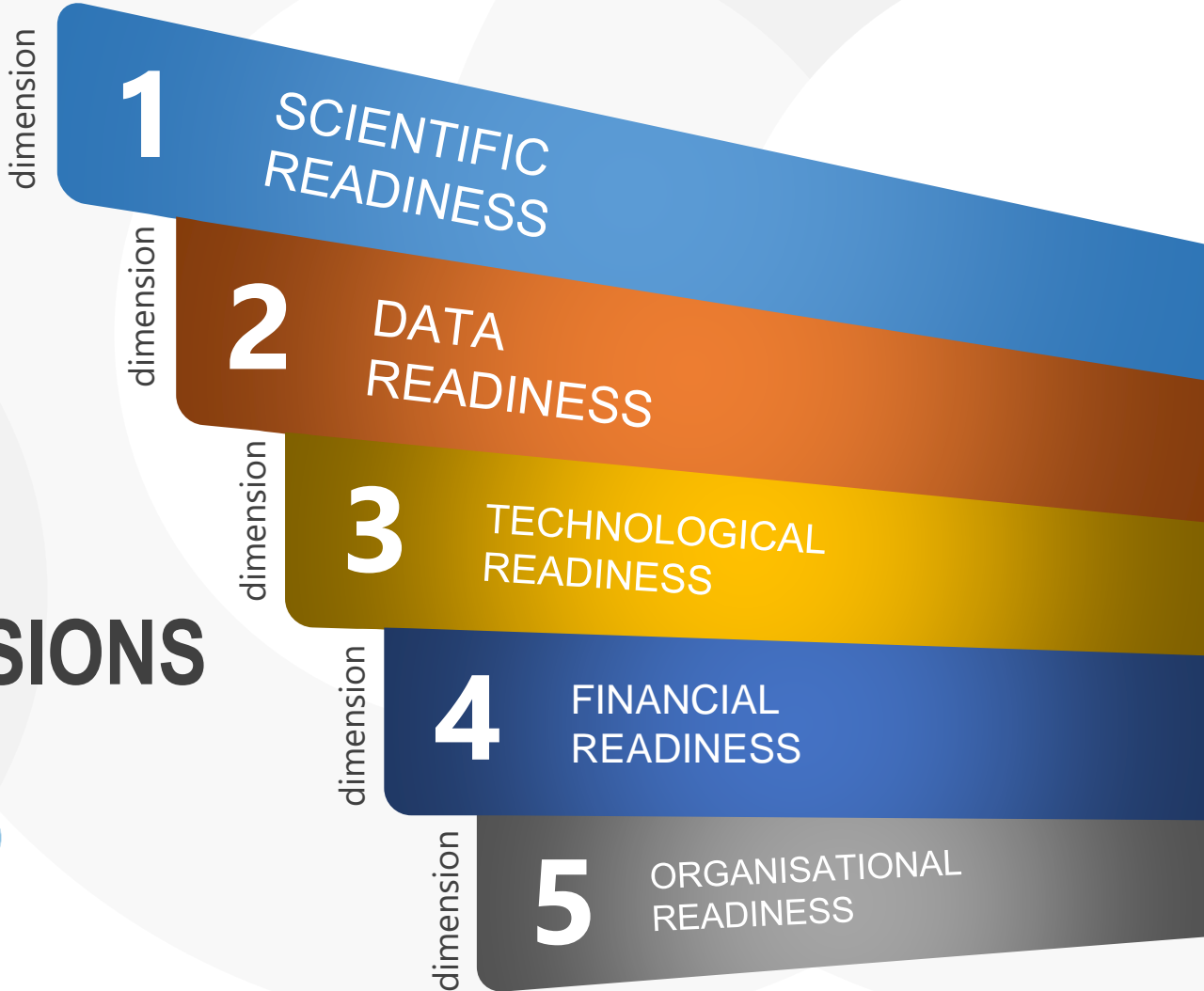


5

DIMENSIONS
of IRL



Distributed System of Scientific Collections



Outlook



MIDS & openDS <-> extended specimen consultation

- FAIR Office Austria – FAIR Implementation Network
- RDA Austria
- European Open Science Cloud (EOSC) & Open Collections & Research Object



<https://www.rd-alliance.org/search/site/austria>

<https://ec.europa.eu/research/openscience/index.cfm?pg=open-science-cloud>



universität
wien

ÖAW
ÖSTERREICHISCHE
AKADEMIE DER
WISSENSCHAFTEN

nhm
naturhistorisches
museum wien

Legend
Cross Domain
Geography
Government
Life Sciences
Linguistics
Media
Publications
Social Networking
User Generated

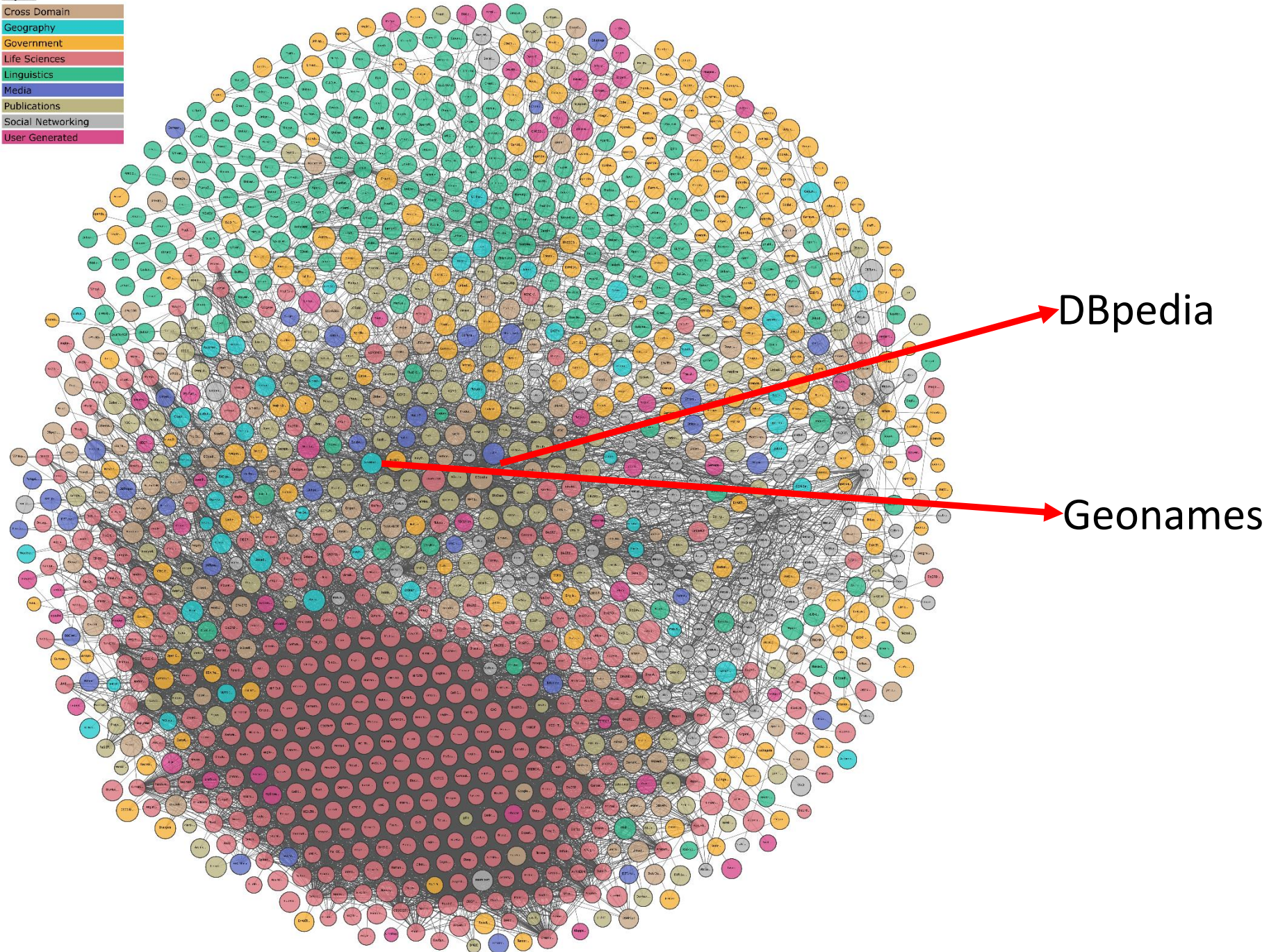
LOD Cloud

<https://lod-cloud.net>

2020-05-29

1,255 datasets

16,174 links



J. Francis Bacon, Lord
Keeper and afterwards
Lord Chancellor of
England, 1617.



Meditationes sacrae (1597)

« *Nam et ipsa scientia
potestas est* »

« Knowledge is power »

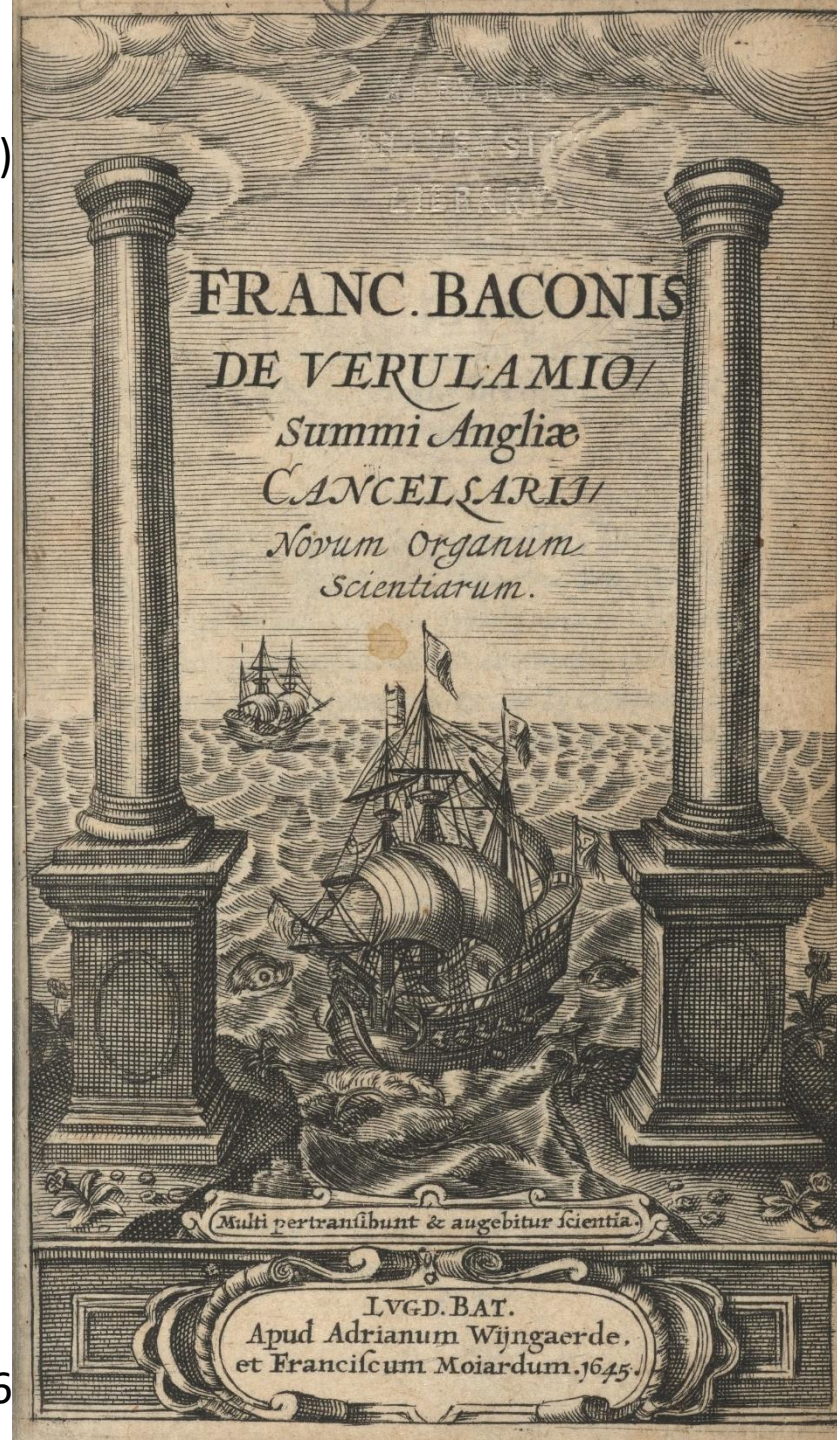
« Wissen ist Macht »

Portrait Sir Francis Bacon

[Frans Pourbus](#) (1617)

[Łazienki-Palast](#) Warsaw

Accession Number: ŁKr 896





universität
wien

ÖAW

ÖSTERREICHISCHE
AKADEMIE DER
WISSENSCHAFTEN



naturhistorisches
museum wien



species  2000

THE
ANDREW W
MELLON
FOUNDATION



SYNTHESYS+
Synthesis of Systematic Resources a DiSSCo project

DiSSCO
Distributed System of Systemic Collections

DiSSCO
PREPARE

mobilise

≡ Bundesministerium
Kunst, Kultur,
öffentlicher Dienst und Sport

≡ Bundesministerium
Bildung, Wissenschaft
und Forschung

≡ Bundesministerium
Klimaschutz, Umwelt,
Energie, Mobilität,
Innovation und Technologie