



Geovistory

A research and data publication environment.

Making Data Useful and
Easily Accessible.

LOD4HSS (funded by Swissuniversities)

UNIBE Coffee Lecture

8.3.2023

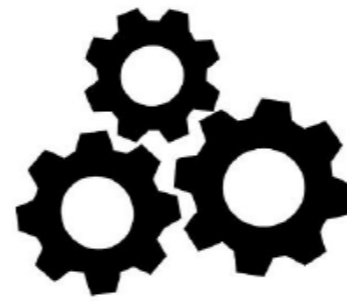
F
indable



A
ccessible



I
nteroperable



R
eusable



Vision

A platform for highly curated (=scientific/scholarly) data from the humanities.

- ❖ **Structuring of Complex Data (including contradictory statements)**
- ❖ **Highly Connected and Interlinked (no data duplication)**
- ❖ **Granularly Accessible (the single „data point“)**
- ❖ **Clearly Defined and Accepted Data Model**

- **Humanities (and Social Sciences) in Mind**
- **A Wikidata-like Infrastructure by the Community and for the Community**

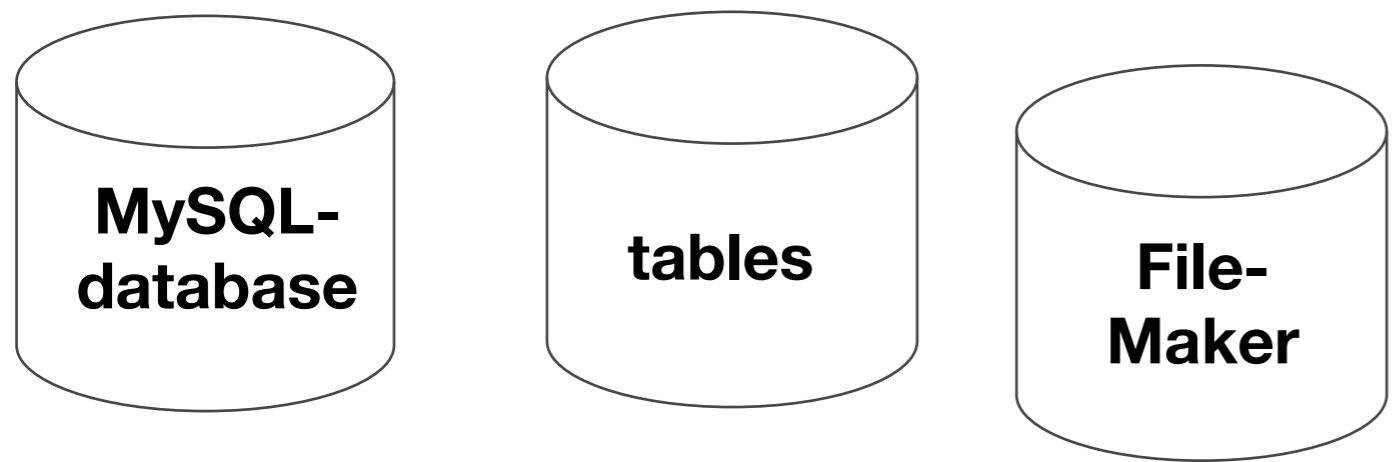
The Situation now



Objects: Artist/creator
Year of creation
Owners & places

People: Life & career

Places: events, institutions, inhabitants

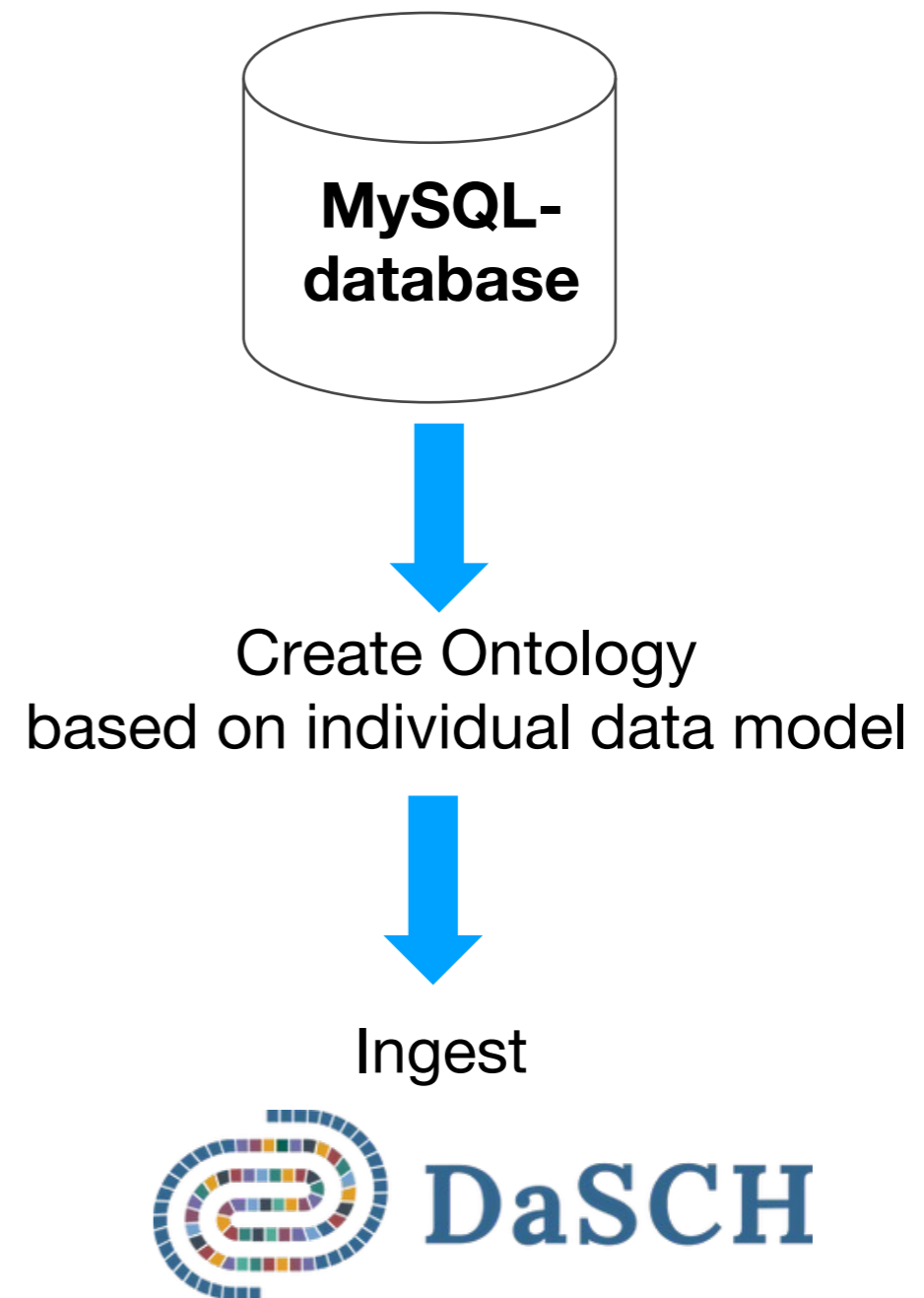
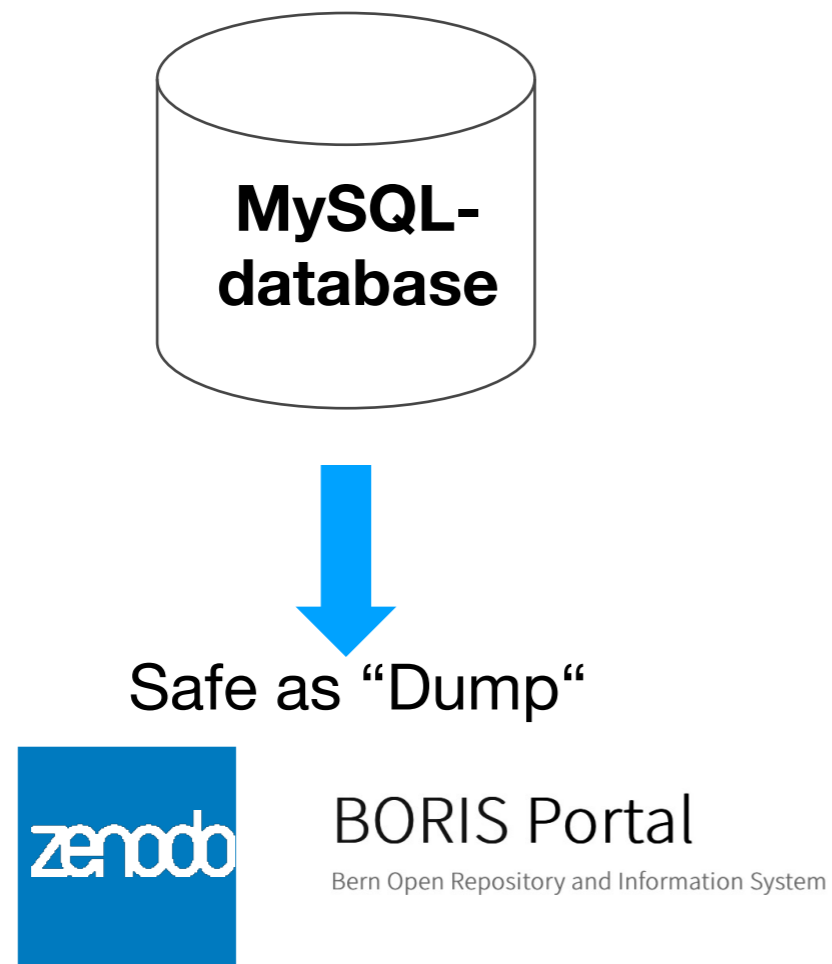


Attributes

ID	Name	Event
1	Istanbul	A
2	Berlin	B
3

Objects

At the end of project...



Initiators & Partners

u^b

b
UNIVERSITÄT
BERN

LARPA
UMR 5190

KleioLab 

u^b

b
UNIVERSITÄT
BERN

**L'ÉCOLE
DES HAUTES
ÉTUDES EN
SCIENCES
SOCIALES**


UNIVERSITÉ LYON III
JEAN MOULIN

**ÉCOLE FRANÇAISE
DE ROME**
Histoire, Archéologie, Sciences sociales


UNI
BASEL

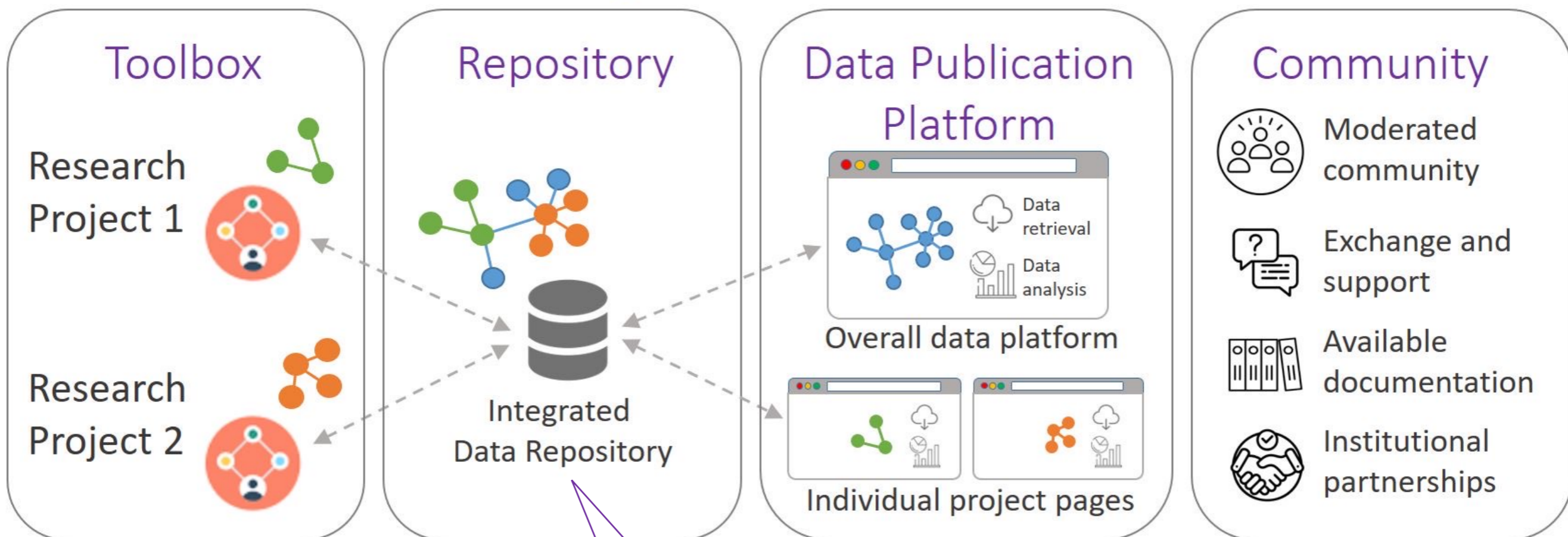
h huygens
institut

unine
UNIVERSITÉ DE
NEUCHÂTEL


UNIVERSITÉ PARIS 1
PANTHÉON SORBONNE


UNIVERSITÉ TOULOUSE
Jean Jaurès

Geovistory Environment



Freely accessible.

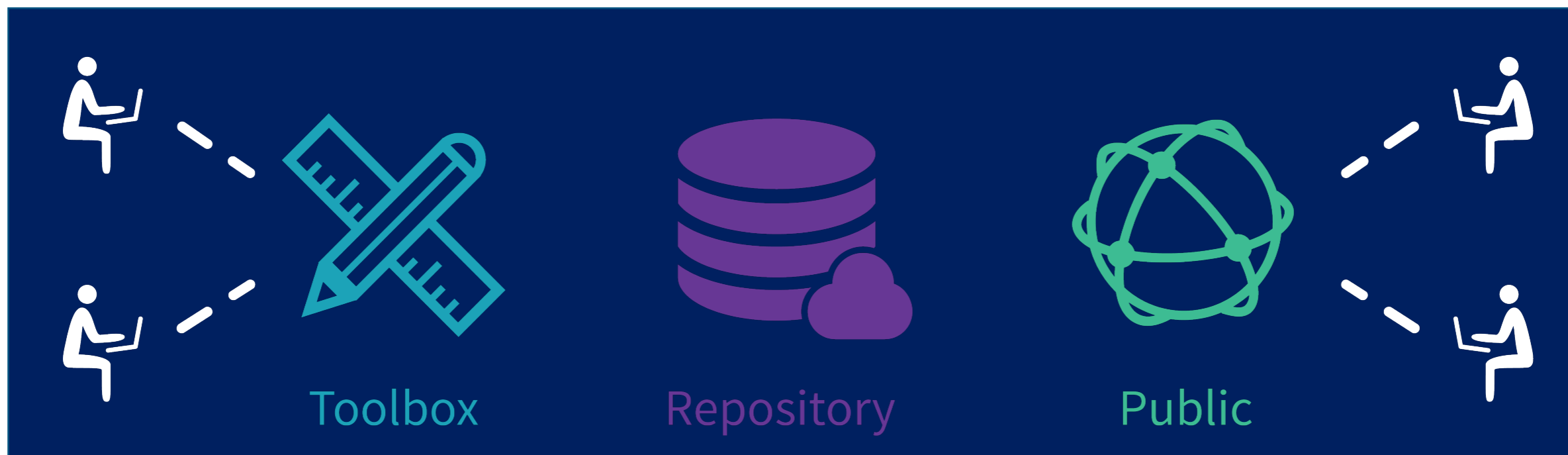
Open to all.

ISO 21127
CIDOC-CRM &
SDHSS

Geovistory

u^b

b
UNIVERSITÄT
BERN





Toolbox



^b
UNIVERSITÄT
BERN



Sources

Create your library of books, manuscripts etc. and reproduce them as texts, tables (or images).



Entities

Reconstruct historicized statements by creating, discussing and improving your data.



Analyse

Analyse your data, create data visualization and gain insights.



Digitals

Create and manage texts and tables.



Settings

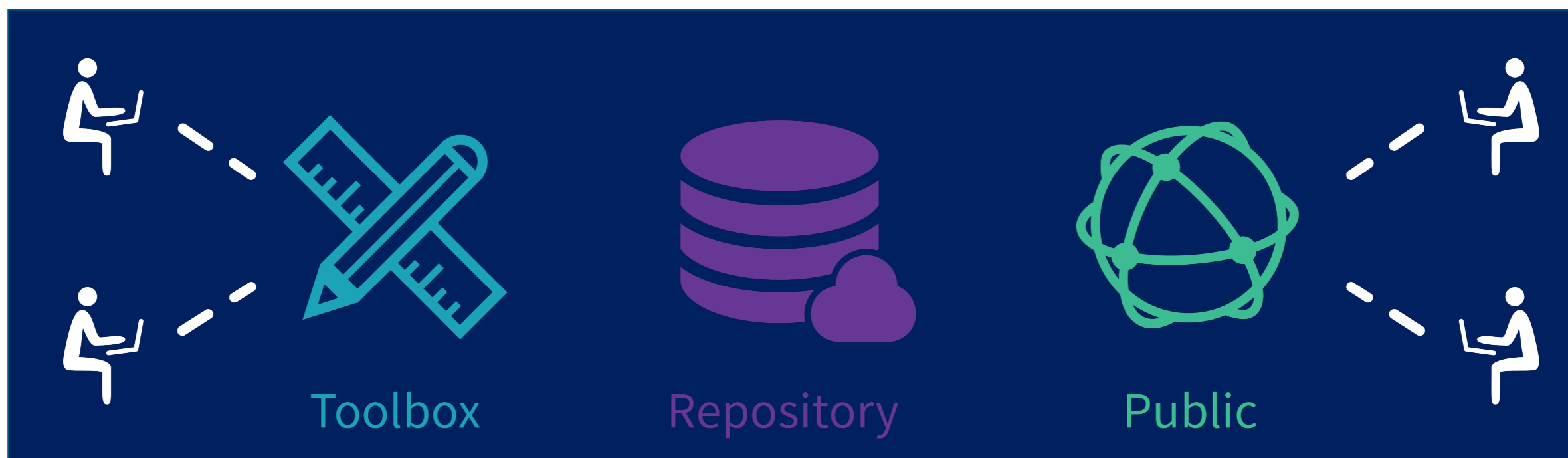
Manage controlled vocabularies & ontological settings. Activate classes & collection of classes.

The screenshot shows the KleioLab interface. The top navigation bar includes 'Home / Your Projects / University Professors and Their Networks', a 'Help' button, and a 'Beta' badge. The left sidebar contains navigation icons for Sources, Entities, Analysis, Stories, and Settings. The main content area is divided into two panels. The left panel, titled 'Your Entities', shows a search bar and a list of results: 'Aachen DE' (Geographical Place), 'Aichel Otto' (Person), and 'Akademie der Wissenschaft...' (Legal Body). The right panel displays the details for the selected entity 'Otto Diels' (ID: 1575602, Class: Person). It features sections for 'Basic fields', 'has definition (1)', 'Metadata fields', 'Specific fields', 'has gender (1)', and 'has its origins in (1)'. The 'Basic fields' section shows a table with columns for 'has time-span', 'used in language', and 'refers to name', with values 'German' and 'Otto Diels' respectively. The 'has definition (1)' section is currently empty. The 'has gender (1)' section shows 'Male'. The 'has its origins in (1)' section shows 'Hamburg DE' (Geographical Place). A pagination bar at the bottom of the entity list shows '1' of 29 results.

Geovistory

u^b

b
UNIVERSITÄT
BERN



Data model for historical data

Standard data structure

Object Centered Data Model

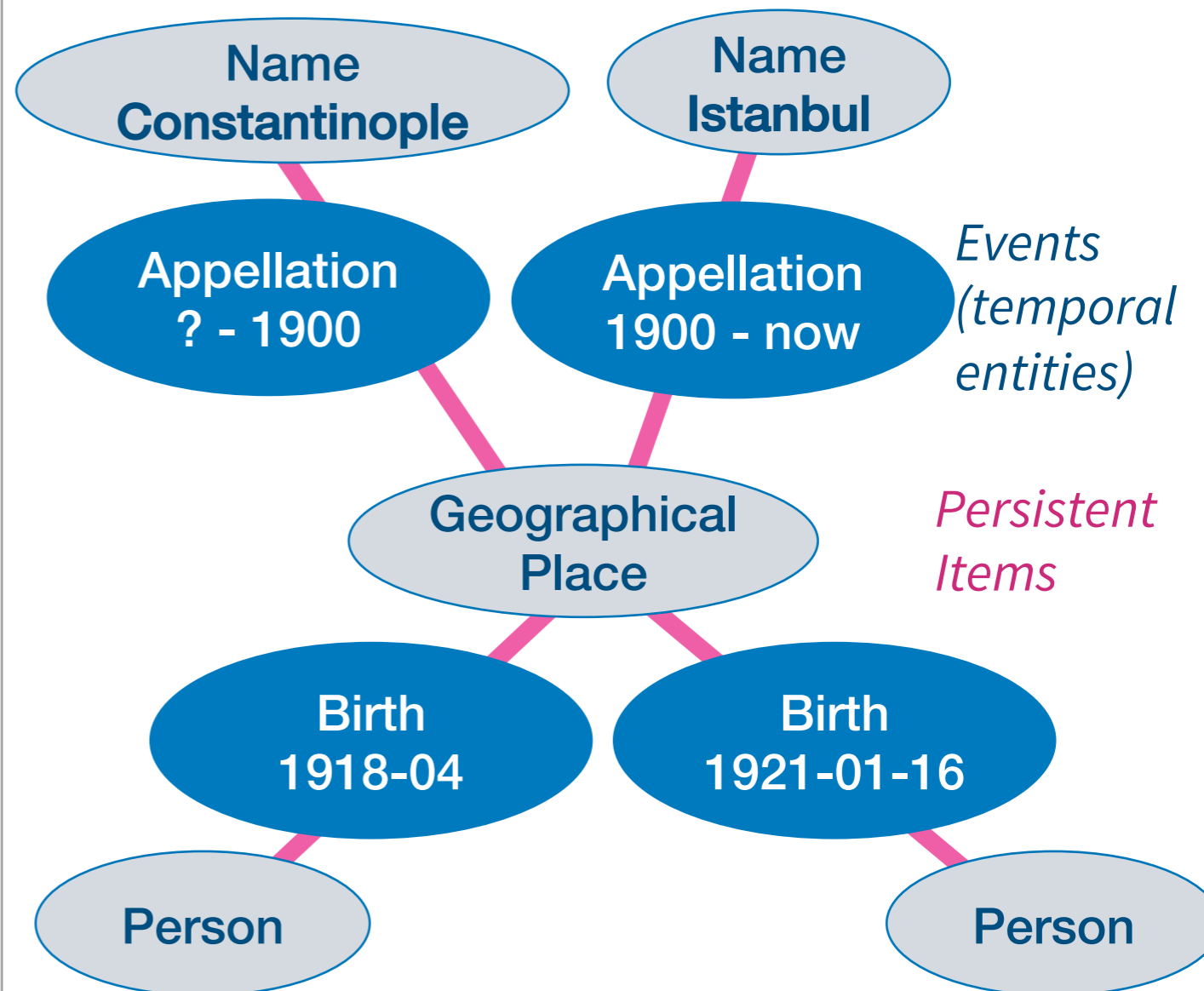
Attributes
↓ ↓

Objects
→ →

ID	Name	Geometry
1	Istanbul	A
2	Berlin	B
3

Structure for historical data in Geovistory

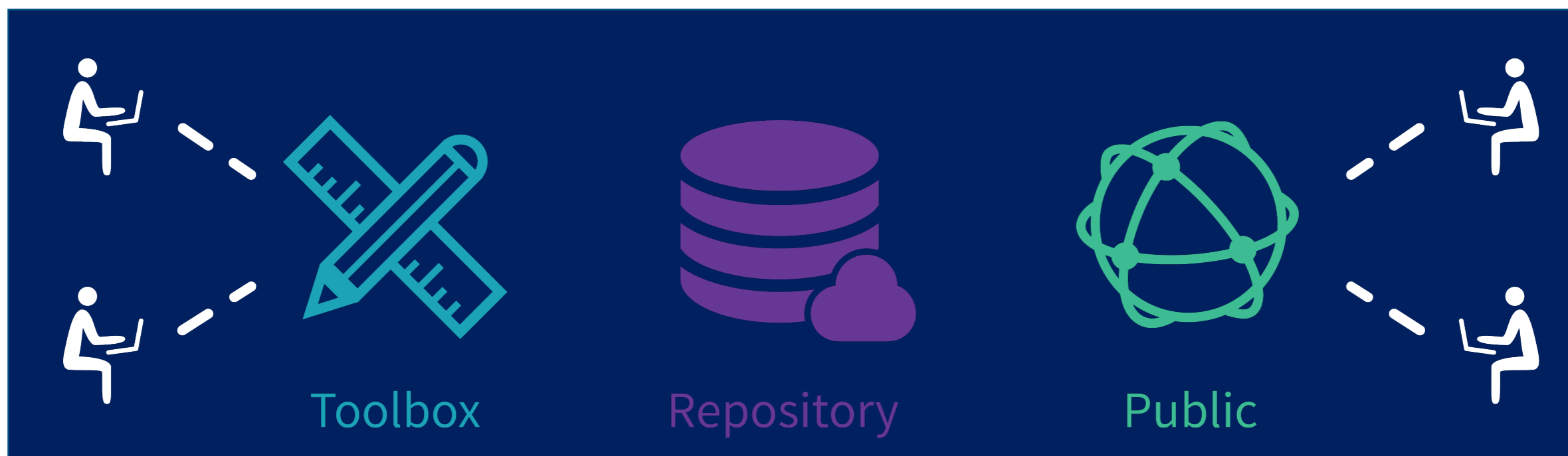
Information
Event Centered Data Model



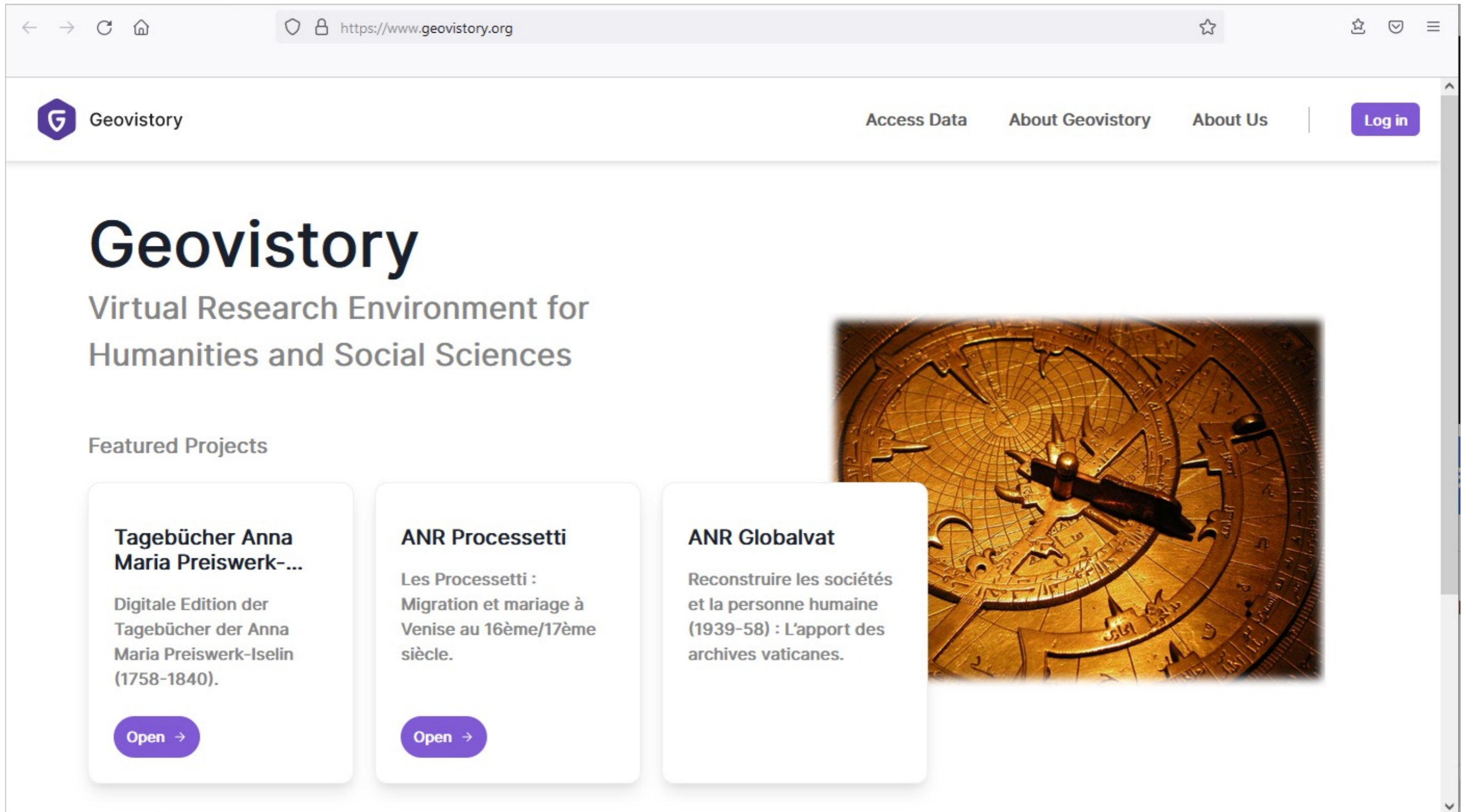
Geovistory

u^b


b
UNIVERSITÄT
BERN



Data Publication Platform



← → ↻ 🏠 <https://www.geovistory.org> ☆ 🏠 📄 ☰

 Geovistory [Access Data](#) [About Geovistory](#) [About Us](#) [Log in](#)

Geovistory

Virtual Research Environment for Humanities and Social Sciences

Featured Projects

Tagebücher Anna Maria Preiswerk-...

Digitale Edition der Tagebücher der Anna Maria Preiswerk-Iselin (1758-1840).

[Open →](#)


ANR Processetti

Les Processetti : Migration et mariage à Venise au 16ème/17ème siècle.

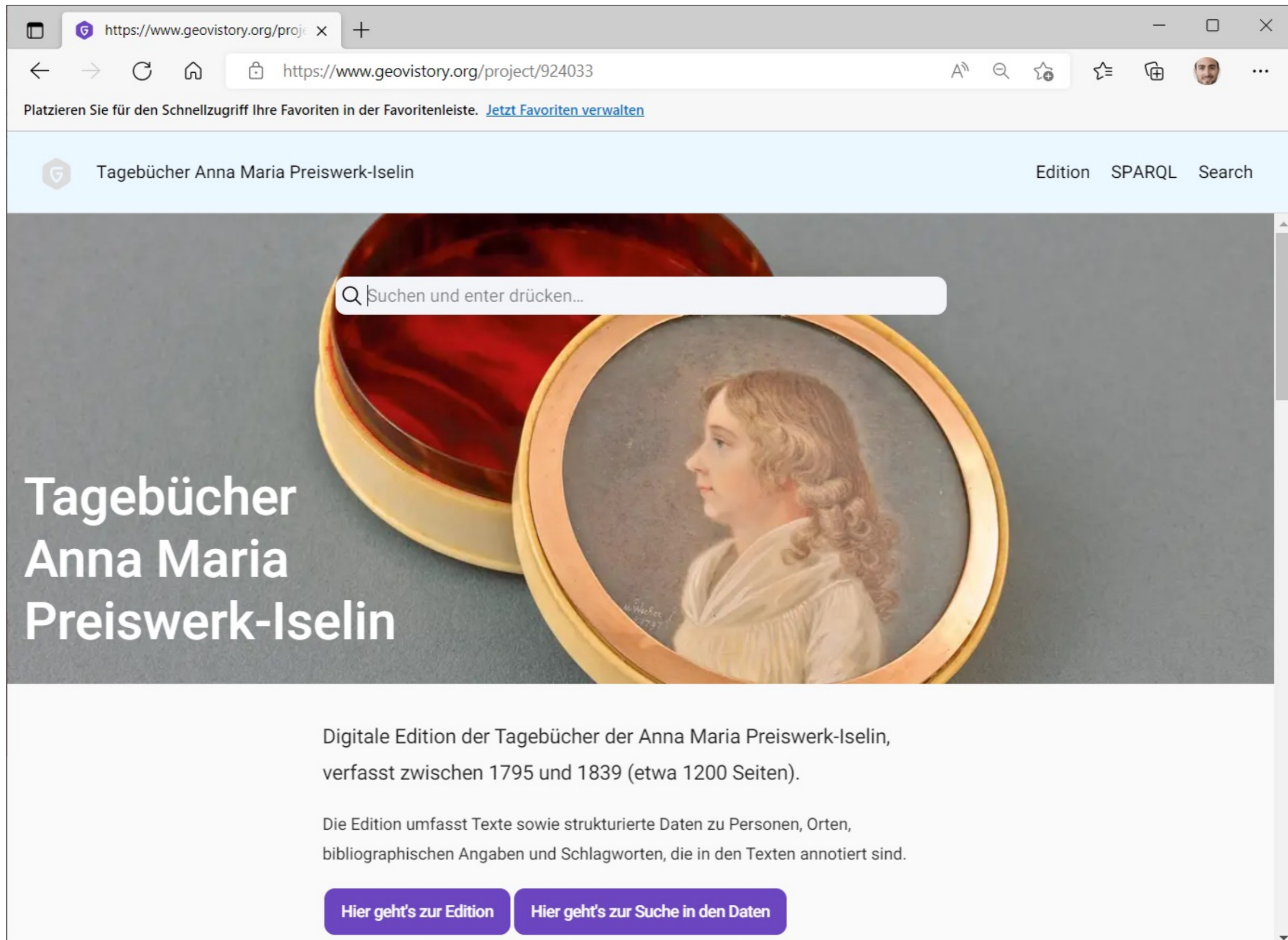
[Open →](#)

ANR Globalvat

Reconstruire les sociétés et la personne humaine (1939-58) : L'apport des archives vaticanes.



Individual Project Page



The screenshot shows a web browser window with the URL <https://www.geovistory.org/project/924033>. The page title is "Tagebücher Anna Maria Preiswerk-Iselin". The browser's address bar shows the URL and navigation icons. The page content includes a search bar with the placeholder text "Suchen und enter drücken...". Below the search bar is a large image of an open book with a portrait of a woman in a circular frame. The text "Tagebücher Anna Maria Preiswerk-Iselin" is overlaid on the left side of the image. Below the image, there is a description of the digital edition and two buttons: "Hier geht's zur Edition" and "Hier geht's zur Suche in den Daten".

https://www.geovistory.org/proje x +

← → ↻ 🏠 🔒 https://www.geovistory.org/project/924033 🔊 🔍 ⭐ ⚙️ 👤 ⋮

Platzieren Sie für den Schnellzugriff Ihre Favoriten in der Favoritenleiste. [Jetzt Favoriten verwalten](#)

🏠 Tagebücher Anna Maria Preiswerk-Iselin Edition SPARQL Search

🔍 Suchen und enter drücken...

Tagebücher Anna Maria Preiswerk-Iselin

Digitale Edition der Tagebücher der Anna Maria Preiswerk-Iselin, verfasst zwischen 1795 und 1839 (etwa 1200 Seiten).

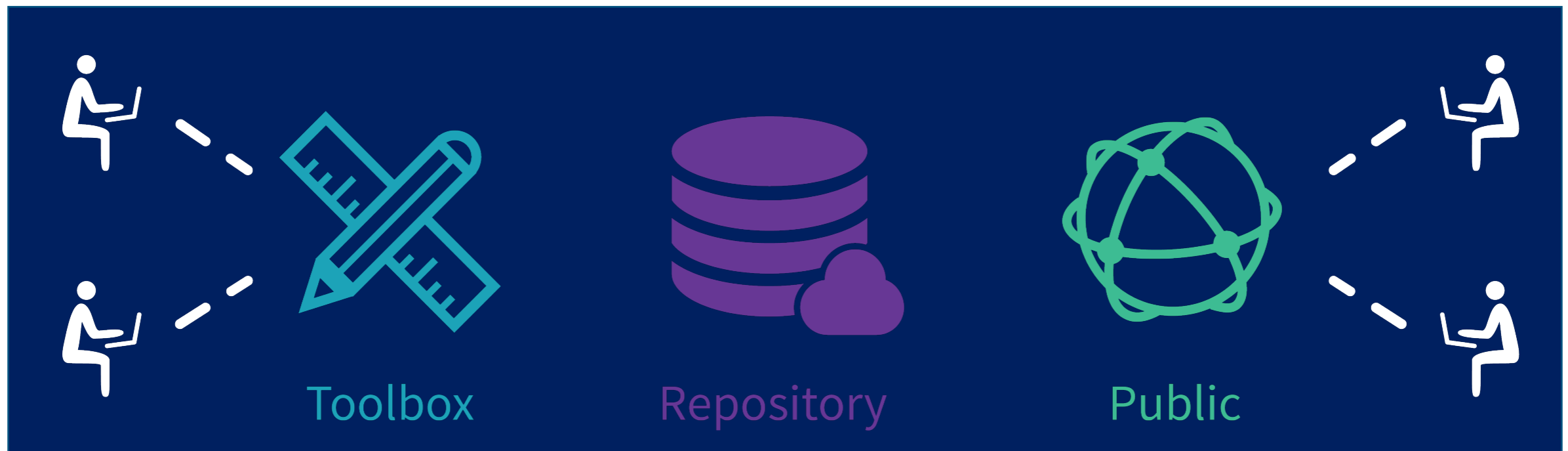
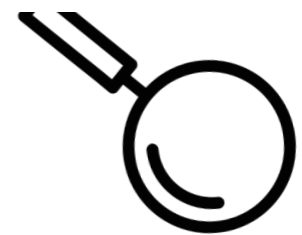
Die Edition umfasst Texte sowie strukturierte Daten zu Personen, Orten, bibliographischen Angaben und Schlagworten, die in den Texten annotiert sind.

[Hier geht's zur Edition](#) [Hier geht's zur Suche in den Daten](#)

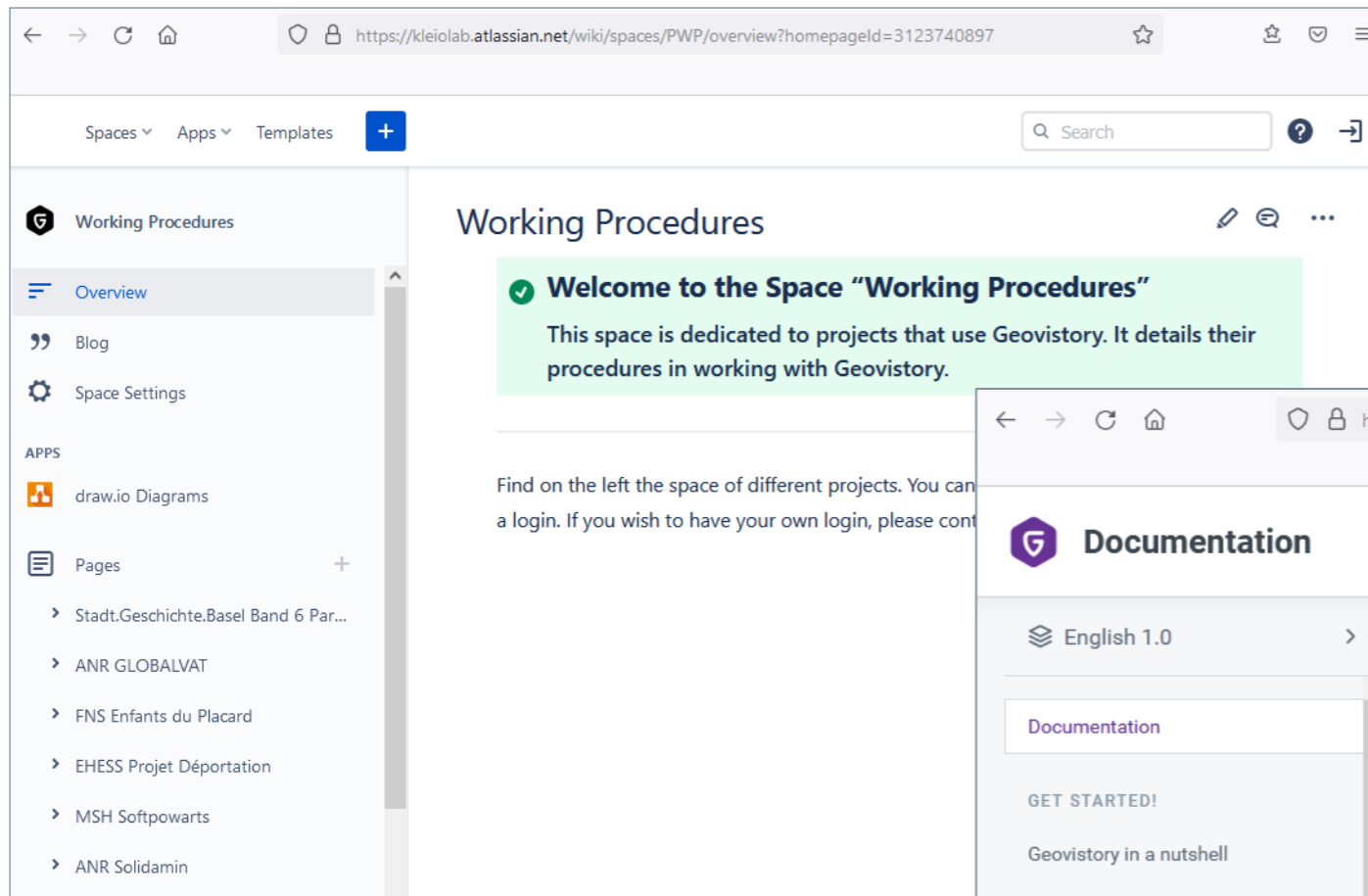
Geovistory

u^b

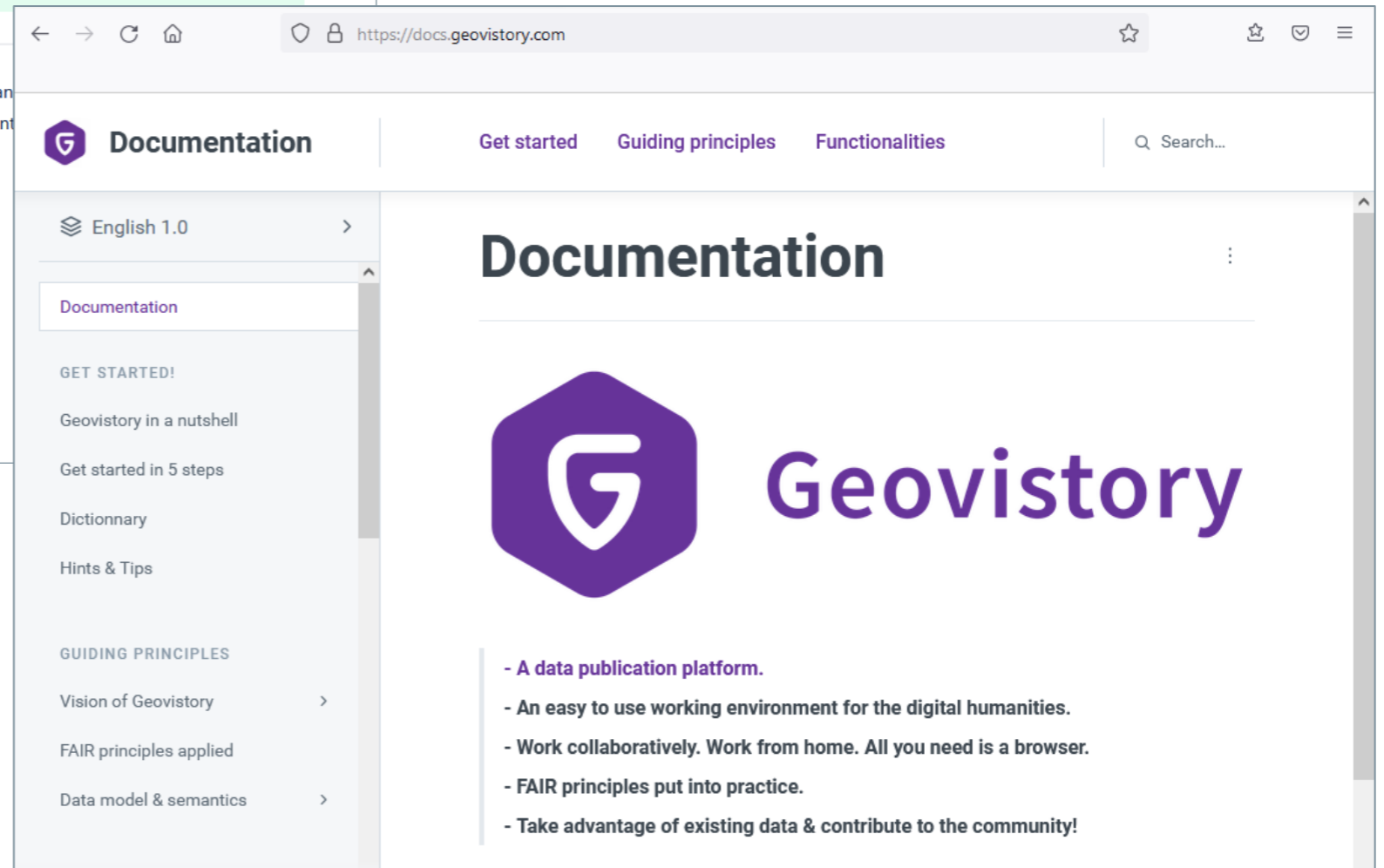
b
UNIVERSITÄT
BERN



Community Environment



Project specific guidelines



Documentation of functionalities

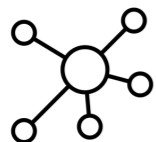
Take-Aways



A freely accessible **data publication platform** & individual project pages.



A **Toolbox** for research projects & GLAM institutions.



A repository where **data from all projects are interconnected** in a openly published knowledge graph.



A **community** of researchers (prosumers) & data users (consumers).

Sustainability

u^b

b
UNIVERSITÄT
BERN

The goal is to sustain the infrastructure through the community.



DaSCH is tasked to focus on Archiving.
They are a partner in LOD4HSS

DaSCH also relies on RDF/LOD-Technology.
Ontologies in Geovistory clearly defined.



- Direct data ingest in DaSCH is in discussion (foreseen for 2024)

Geovistory Workshop

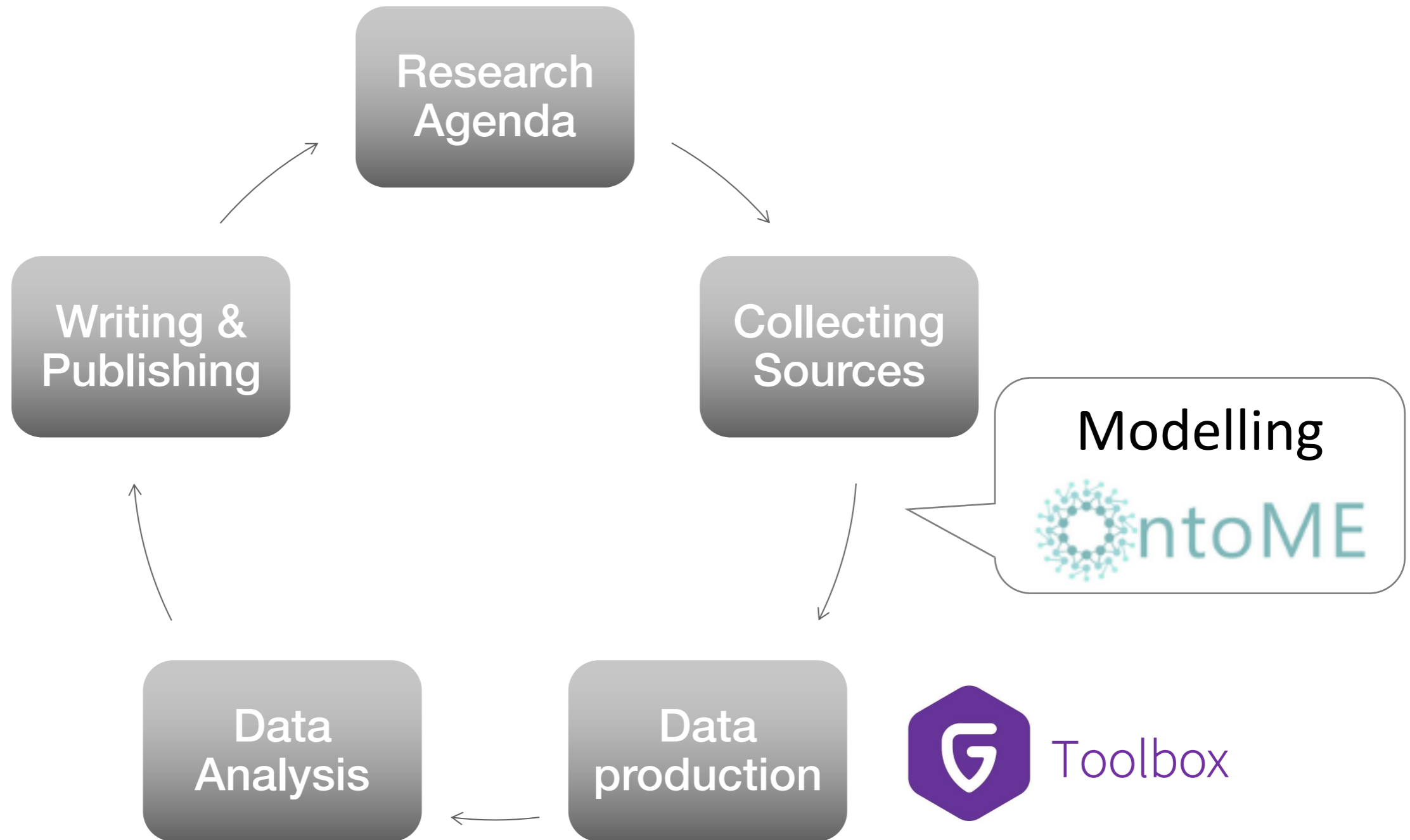
Tue 28th of March,

10:15-12:00

by Stephen Hart (UNIBE)

Francesco Beretta (UNINE/CNRS)

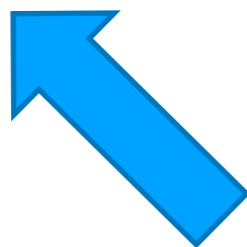
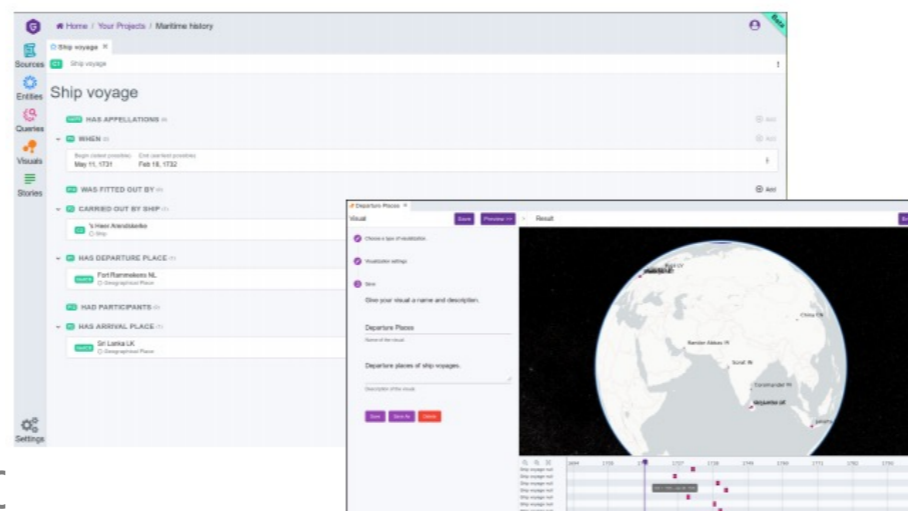
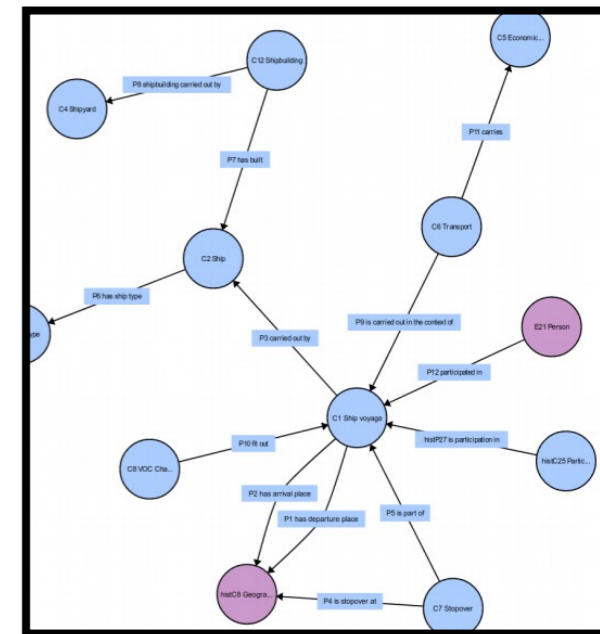
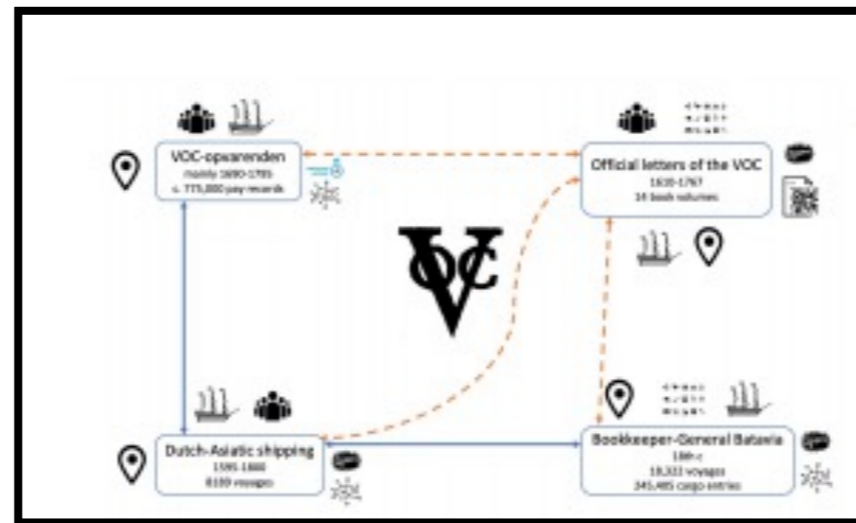
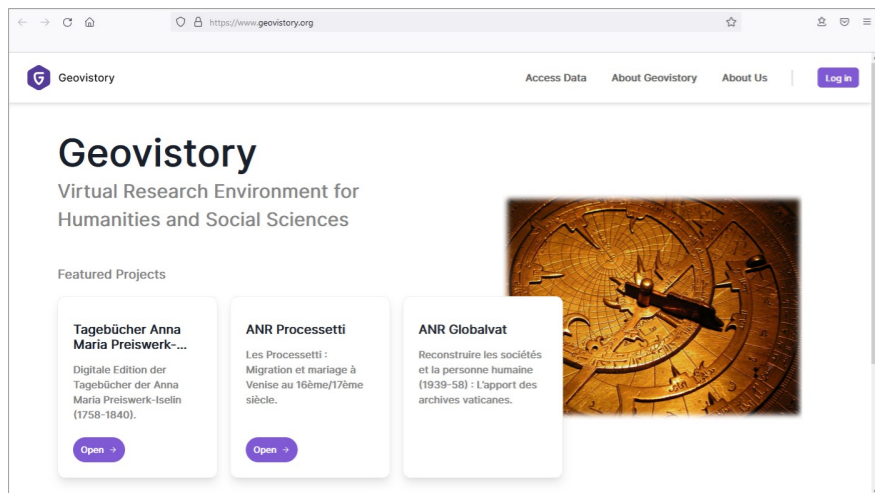
Research process



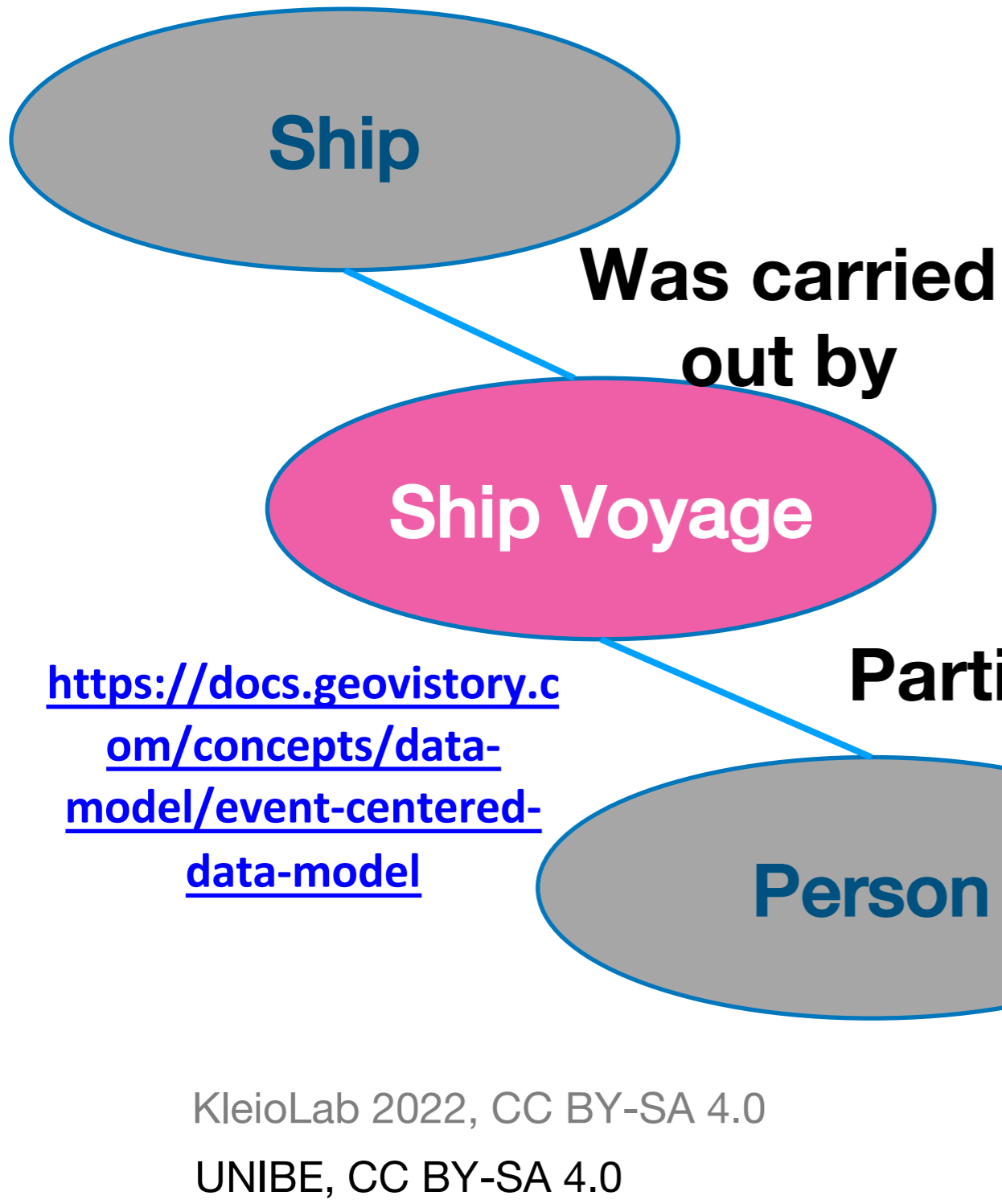
Example workflow

u^b

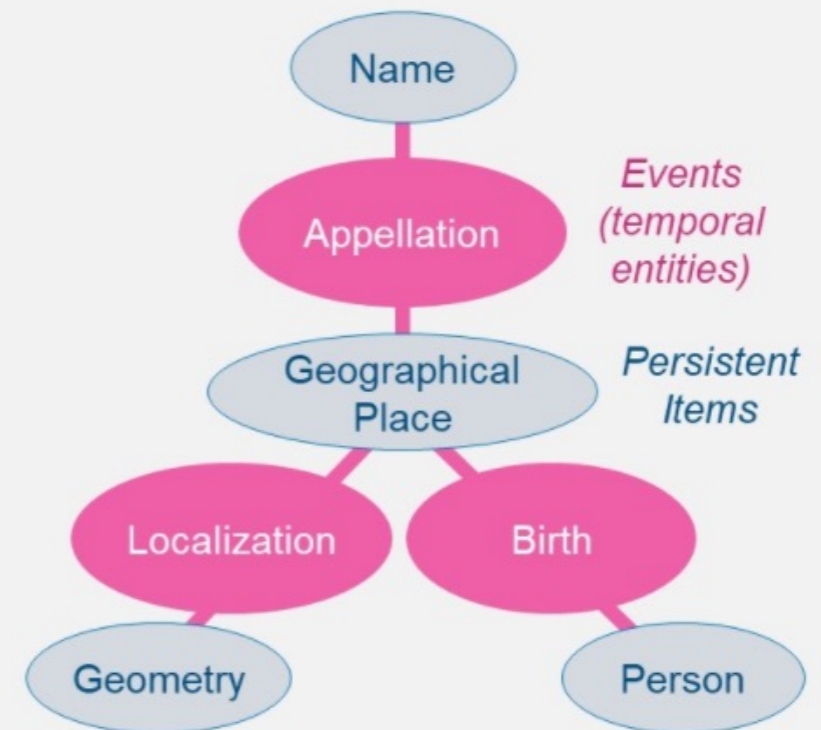
u^b
UNIVERSITÄT
BERN



Data Model



Event Centered Data Model



Data-Model applied in Geovistory



Toolbox

u^b

UNIVERSITÄT
BERN

The screenshot shows the Toolbox application interface. The top navigation bar includes a home icon, the path 'Home / Your Projects / Copy of Processetti for Digital Tool (Unipd)', a 'Help' button, and a user profile icon. The left sidebar contains navigation options: Sources, Entities, Digitals, Analysis, and Settings. The main content area is divided into two panes. The left pane, titled 'Your Entities', shows search results for 'Matteo' with 319 results. The right pane displays a detailed view of the entity 'Matteo di Matteo Berrettini (da Meduno, paternoster)'. The entity details include:

- Name**: has appellation for language ... used in language Italian refers to name Matteo di Matteo Berrettini
- Cognome**: has appellation for language ... used in language Italian refers to name Berrettini (de)
- has definition**: -
- has gender**: Maschile
- has its origins in**: Meduno
- was born**: -

The right pane also shows 'Annotations' and 'Factoids' sections, including 'is annotated by' and 'is annotated in'.

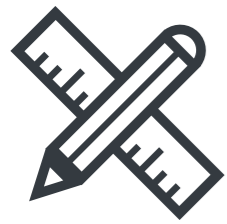


Toolbox

u^b

b
**UNIVERSITÄT
BERN**

The screenshot displays the Toolbox application interface. At the top, the breadcrumb navigation shows 'Home / Your Projects / Copy of Processetti for Digital Tool (Unipd)'. A 'Help' button and a user profile icon are in the top right. The main content area is titled 'Person - Matteo di Matte...' and shows a person entity 'Matteo di Matteo Berrettini (da Meduno, paternoster)' with ID 1055085. The interface is divided into several sections: 'Sources', 'Entities', 'Digitals', 'Analysis', and 'Settings'. The 'Entities' section lists various properties for the person, such as 'Name', 'Nome completo', 'Cognome', 'has definition', 'has gender', 'has its origins in', and 'was born'. The 'Annotations' panel on the right shows a list of annotations, including 'is annotated by' and 'is annotated in'. A settings menu is open, showing options like 'Ontology Info [Shift + O]', 'Edit mode [Shift + E]', 'Settings for class Person', 'Configure Labels', 'Configure Fields', 'Danger Zone', and 'Remove'.



Toolbox

u^b

b
**UNIVERSITÄT
BERN**

The screenshot displays the KleioLab interface for a project named 'Copy of Processetti for Digital Tool (Unipd)'. The main map shows a historical street view of S. Geremia with red circles representing data points. A blue circle highlights a specific location. A timeline at the bottom shows a bar chart of data from 1591 to 1604, with a black dot indicating the current date, Feb 20, 1594 AD. The left sidebar contains navigation options: Sources, Entities, Analysis, and Stories. The 'Analysis' section is active, showing a configuration for 'aq Residenze' with a 'Run' button. Below this, the 'Chosen geographic...' section shows 'Parrocchia' selected. The 'Path' section allows creating a path to a class, with 'Geographical Place, ...' selected. The 'Filter' section shows 'Parrocchia' selected. A 'Settings' icon is at the bottom left. A 'Help' button and a 'Beta' badge are in the top right.

Home / Your Projects / Copy of Processetti for Digital Tool (Unipd) Help Beta

aq Residenze ×

Analysis Configuration, ID 1425088 Save ⋮ → Run < > Analysis Results

Chosen geographic... Revert

Select Classes / Types
Parrocchia

Path

Create a path to a class you want to visualize.

Classes
→ Geographical Place, ...

Properties
→ Is localisation of

Classes *
→ Abitazione, Abitazion... × +

Filter

Classes / Types
Parrocchia

Activated Place ×
S. Geremia
○ Parrocchia
142 items in total

Date
Feb 20, 1594 AD
10 items on this date

CESIUM ion Data attribution

Active: S. Geremia

KleioLab 2022, CC BY-SA 4.0

UNIBE, CC BY-SA 4.0