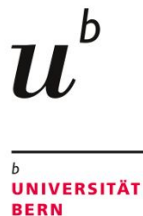


# Geovistory, a LOD Research Infrastructure for Historical Sciences

[geovistory.org](https://geovistory.org)

59th CIDOC CRM SIG Meeting - Plovdiv  
26 September 2024

# Partners



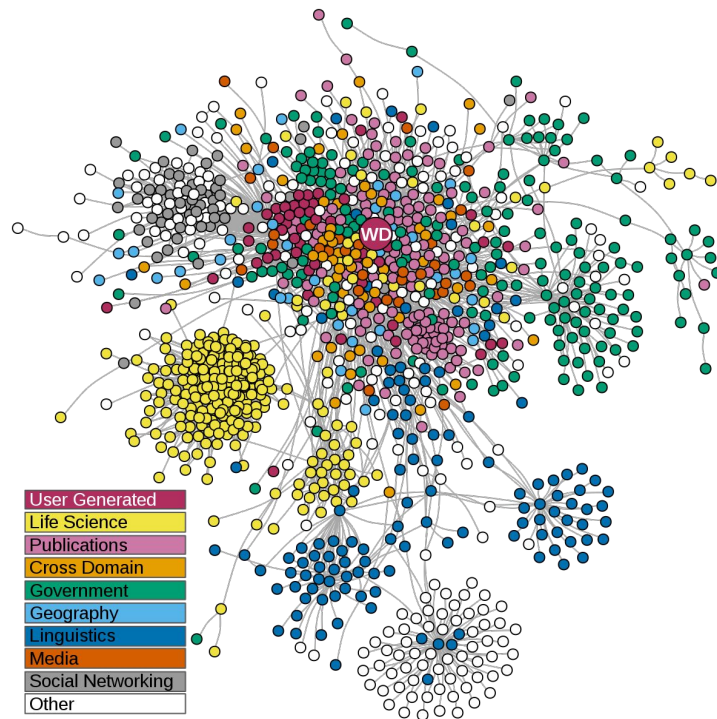
# LOD as a new way of producing, sharing and reusing information

The goal of Linked Open Data is:

- Connect data across projects and domains, thus breaking information silos
- Allow an easy exchange and reuse of the information

In other words: **make data FAIR.**

This would change how scholars can produce knowledge.



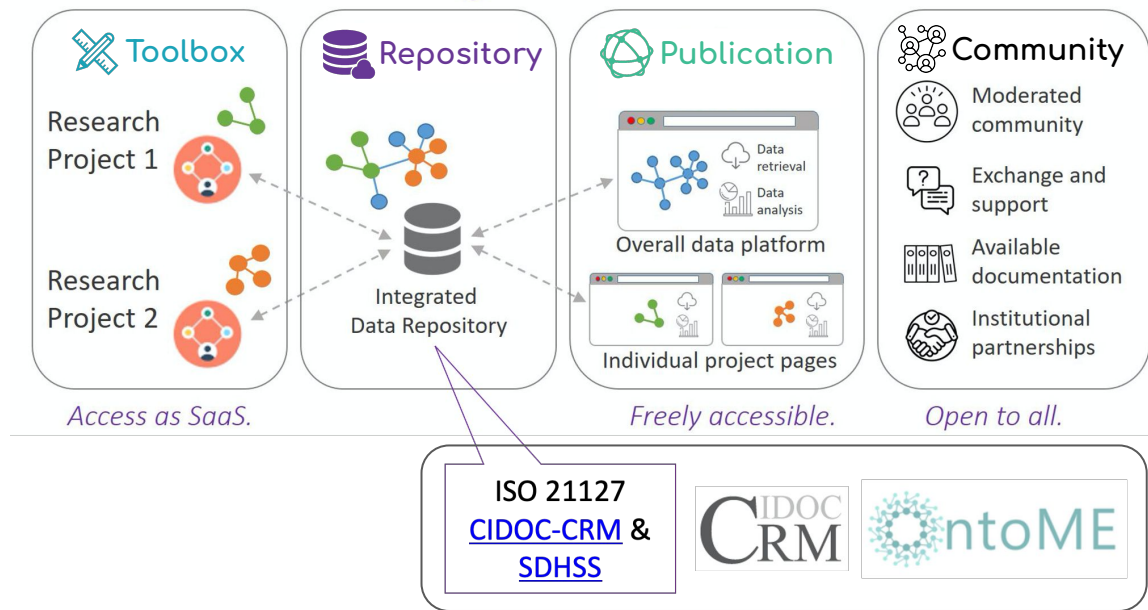
# The challenges of interoperability



Achieving interoperability hinges on two critical components:

- Unambiguous identification of real-world entities (e.g., persons, places, concepts)
  - With unique identifiers (URI)
  - With links between identical entities across different projects
- The utilization of explicit ontologies that can be aligned across projects.
  - However, mapping between ontologies may prove challenging, or even unfeasible, particularly when divergent structural frameworks are employed (e.g., an event-centric ontology may have limited compatibility with an object-centric one).

# Geovistory Environment



# 1. The *Toolbox*



Sources

## Sources

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



Entities

## Entities

Reconstruct reality by creating, discussing and improving your data



Digitals

## Digitals

Create and manage texts and tables



Analysis

## Analysis

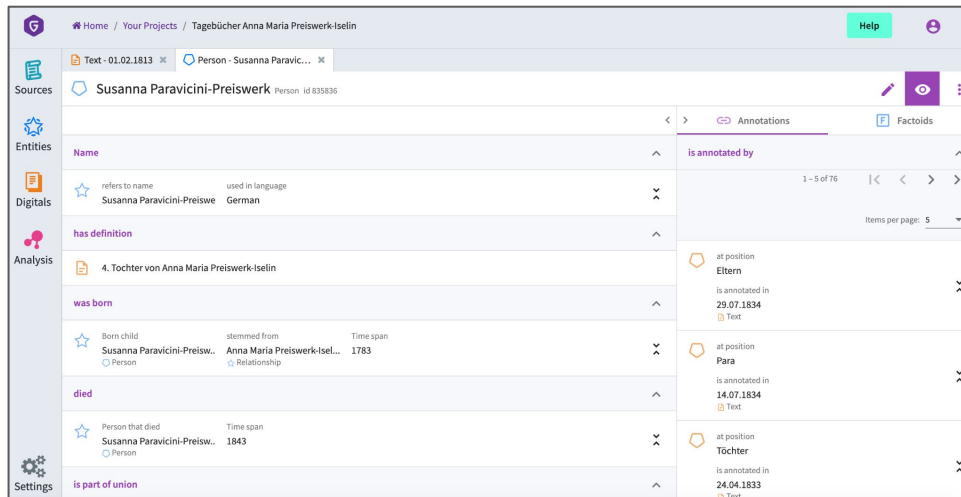
Analyse your data, create beautiful data visualization and gain insights



Settings

## Settings

Manage controlled vocabularies & ontological settings. Activate classes and collections of classes



The screenshot displays the LOD4HSS interface for a person entity. The main content area shows the following information:

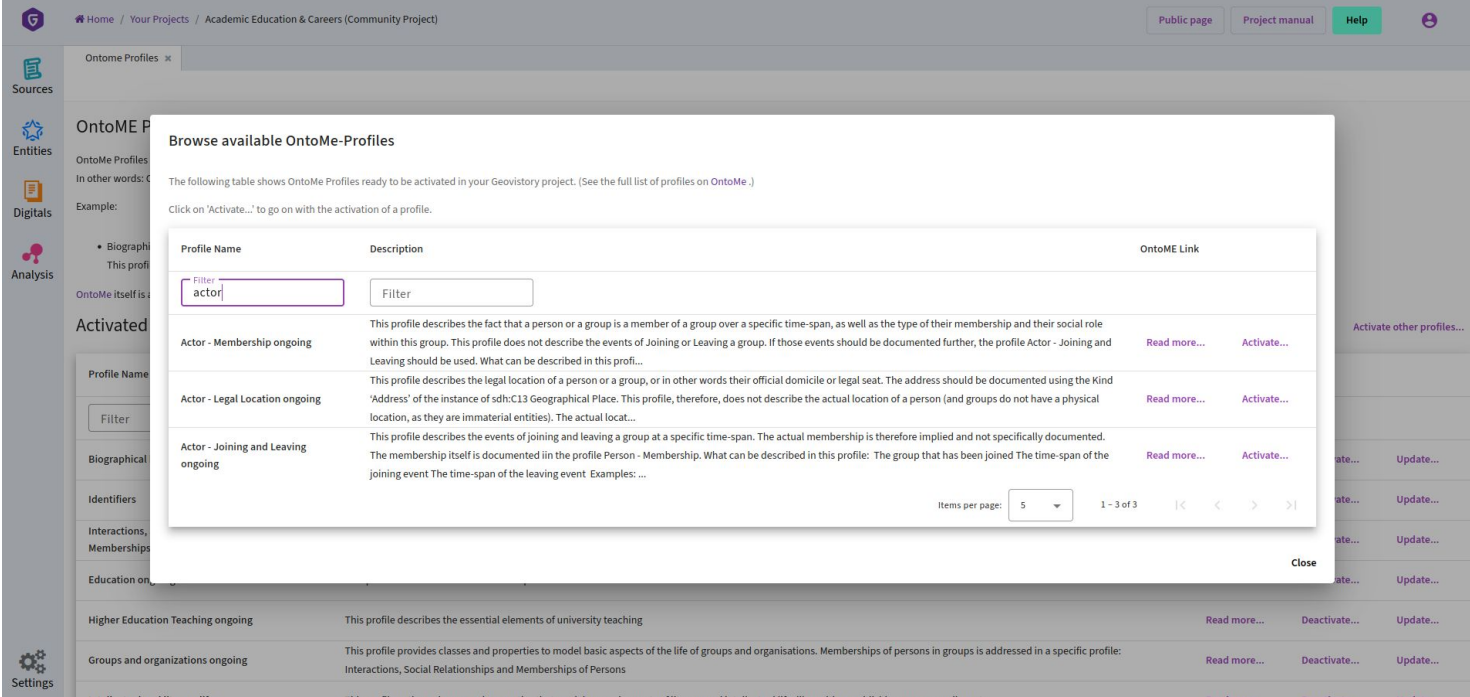
- Name:** Susanna Paravicini-Preiswerk (Person id 835836)
- refers to name:** Susanna Paravicini-Preiswe (used in language German)
- has definition:** 4. Tochter von Anna Maria Preiswerk-Iselin
- was born:** Born child Susanna Paravicini-Preiswe... (stemmed from Anna Maria Preiswerk-Isel... 1783)
- died:** Person that died Susanna Paravicini-Preiswe... (1843)
- is part of union:** (no specific details visible)

The right sidebar shows annotations for the entity, including:

- is annotated by (1 - 5 of 76)
- at position Eltern (is annotated in 29.07.1834)
- at position Para (is annotated in 14.07.1834)
- at position Tochter (is annotated in 24.04.1833)



# 1. Toolbox



Home / Your Projects / Academic Education & Careers (Community Project) Public page Project manual Help

Ontome Profiles

OntoME P

OntoMe Profiles  
In other words: C

Example:  
Click on 'Activate...' to go on with the activation of a profile.

• Biographi  
This profi

OntoMe itself is

Activated

Profile Name

Filter

Biographical

Identifiers

Interactions,  
Memberships

Education on

Higher Education Teaching ongoing

Groups and organizations ongoing

Intellectual and Research Life

**Browse available OntoMe-Profiles**

The following table shows OntoMe Profiles ready to be activated in your Geovistory project. (See the full list of profiles on OntoMe.)

Click on 'Activate...' to go on with the activation of a profile.

Profile Name	Description	OntoME Link
<input type="text" value="actor"/>	<input type="text" value="Filter"/>	
Actor - Membership ongoing	This profile describes the fact that a person or a group is a member of a group over a specific time-span, as well as the type of their membership and their social role within this group. This profile does not describe the events of Joining or Leaving a group. If those events should be documented further, the profile Actor - Joining and Leaving should be used. What can be described in this profi...	<a href="#">Read more...</a> <a href="#">Activate...</a>
Actor - Legal Location ongoing	This profile describes the legal location of a person or a group, or in other words their official domicile or legal seat. The address should be documented using the Kind 'Address' of the instance of sdt:c13 Geographical Place. This profile, therefore, does not describe the actual location of a person (and groups do not have a physical location, as they are immaterial entities). The actual locat...	<a href="#">Read more...</a> <a href="#">Activate...</a>
Actor - Joining and Leaving ongoing	This profile describes the events of joining and leaving a group at a specific time-span. The actual membership is therefore implied and not specifically documented. The membership itself is documented in the profile Person - Membership. What can be described in this profile: The group that has been joined The time-span of the joining event The time-span of the leaving event Examples: ...	<a href="#">Read more...</a> <a href="#">Activate...</a>
Higher Education Teaching ongoing	This profile describes the essential elements of university teaching	<a href="#">Read more...</a> <a href="#">Deactivate...</a> <a href="#">Update...</a>
Groups and organizations ongoing	This profile provides classes and properties to model basic aspects of the life of groups and organisations. Memberships of persons in groups is addressed in a specific profile: Interactions, Social Relationships and Memberships of Persons	<a href="#">Read more...</a> <a href="#">Deactivate...</a> <a href="#">Update...</a>
Intellectual and Research Life	This profile defines classes and properties that model general aspects of libraries and intellectual life: the writing, publishing, re-publishing, etc.	<a href="#">Read more...</a> <a href="#">Deactivate...</a> <a href="#">Update...</a>

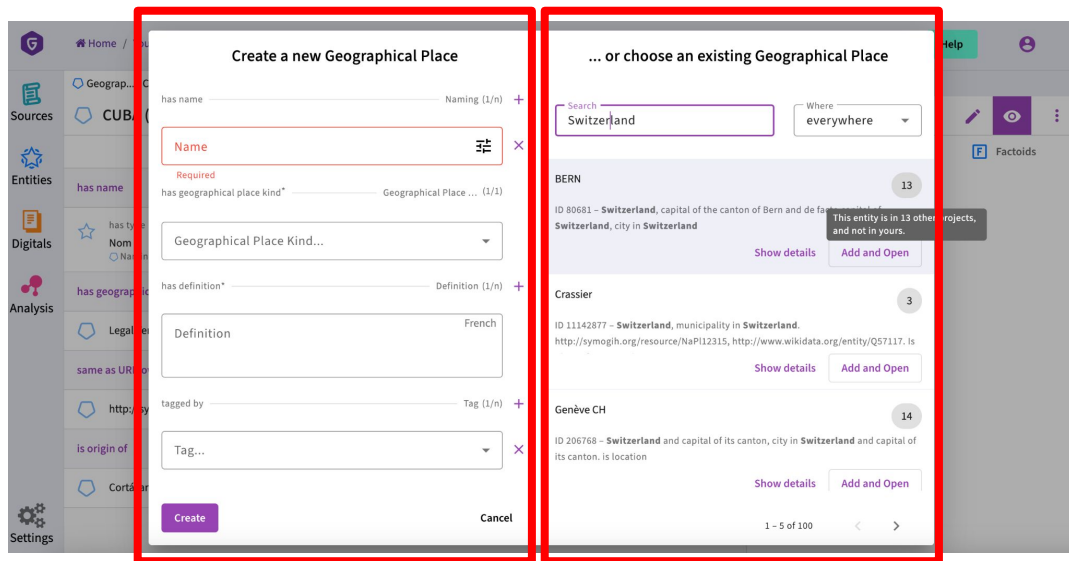
Items per page: 5 1 - 3 of 3 < < > >

Close

Activate other profiles...



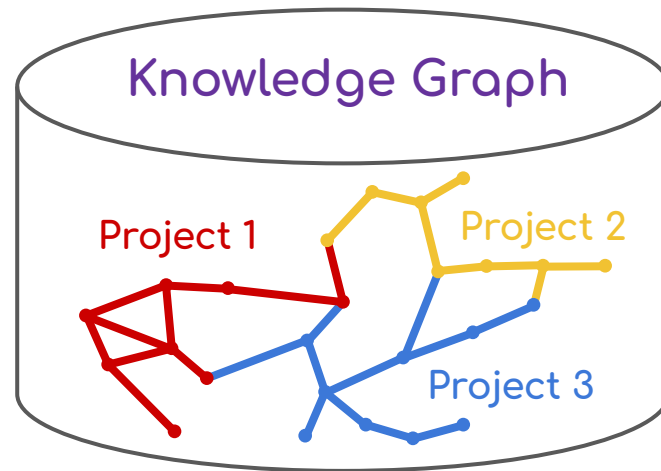
## 2. Repository



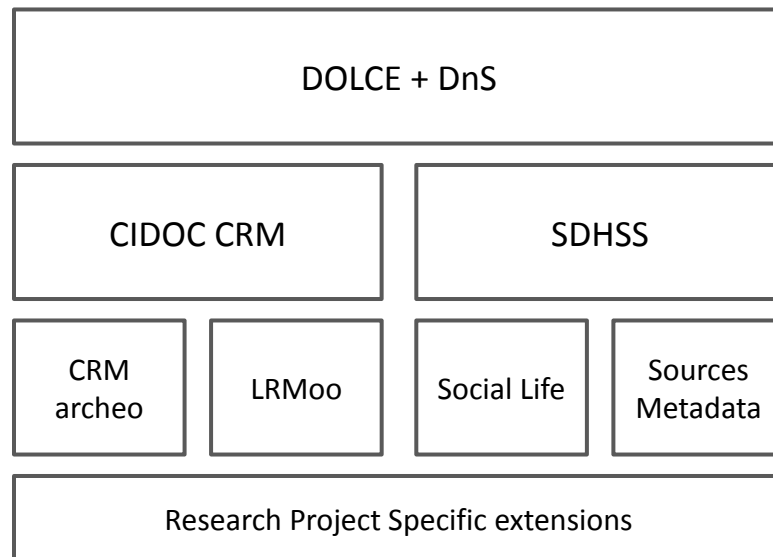
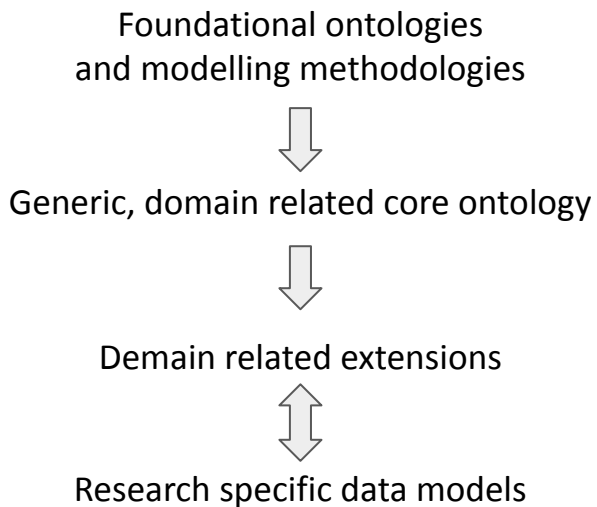
The screenshot shows two panels from the LOD4HSS interface, both highlighted with a red border. The left panel, titled "Create a new Geographical Place", contains several form fields: "has name" with a "Name" input field, "has geographical place kind\*" with a dropdown menu, "has definition\*" with a "Definition" input field, and "tagged by" with a "Tag..." input field. A "Create" button is at the bottom left. The right panel, titled "... or choose an existing Geographical Place", features a search bar with "Switzerland" entered, a "Where" dropdown set to "everywhere", and a list of results including "BERN", "Crassier", and "Genève CH". A tooltip for "BERN" states: "This entity is in 13 other projects, and not in yours." Buttons for "Show details" and "Add and Open" are visible for each result.

Specific Project

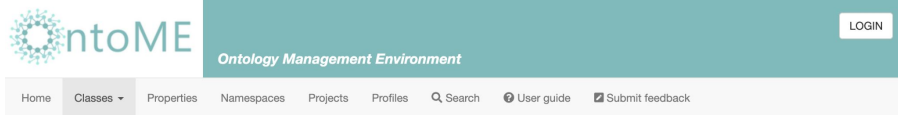
Access to the whole  
Knowledge Graph



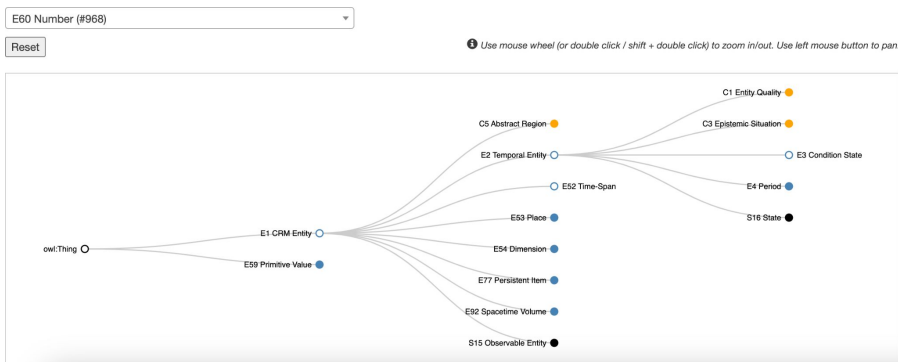
# 3. SDHSS ontology management in Ontome



# 3. SDHSS ontology management in Ontome

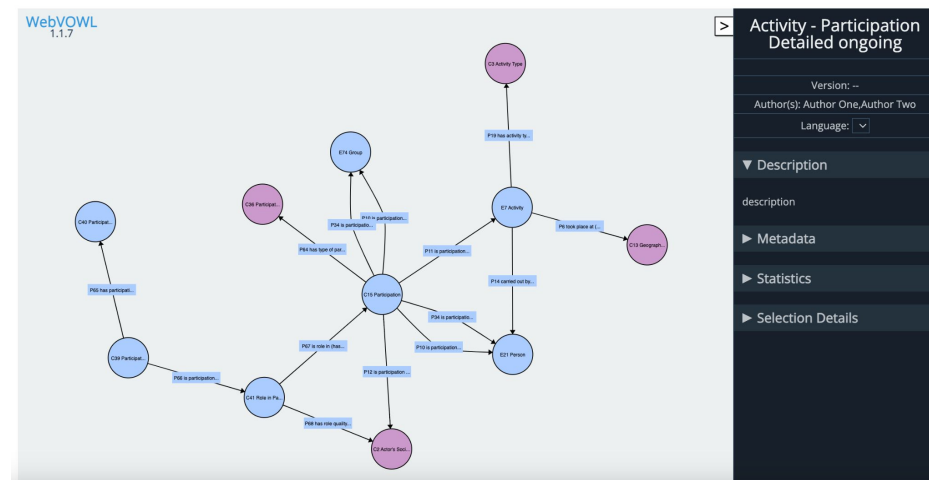


## Classes tree

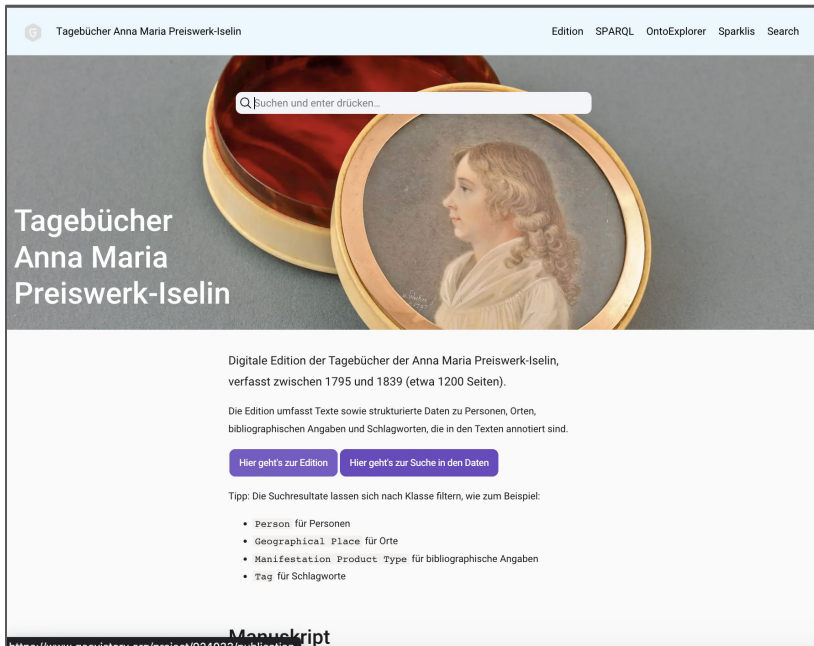


OntoME website for managing ontologies

## Application profiles



# 4. Publication



Tagebücher Anna Maria Preiswerk-Iselin

Edition SPARQL OntoExplorer Sparklis 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.

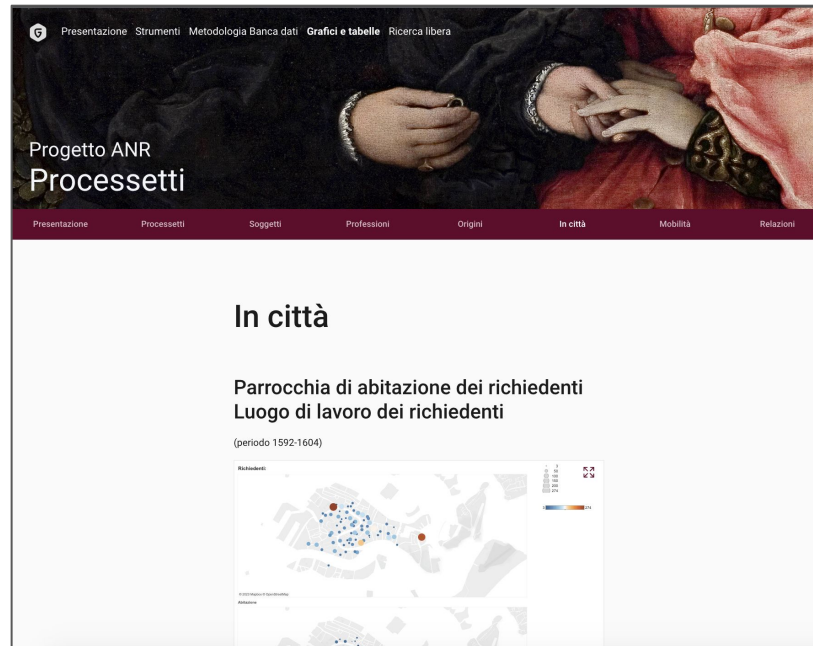
[Hier geht's zur Edition](#) [Hier geht's zur Suche in den Daten](#)

Tipp: Die Suchresultate lassen sich nach Klasse filtern, wie zum Beispiel:

- **Person** für Personen
- **Geographical Place** für Orte
- **Manifestation Product Type** für bibliographische Angaben
- **Tag** für Schlagworte

Manuskript

<https://www.ea.unizh.ch/en/ident/02/1022/publication>



Presentazione Strumenti Metodologia Banca dati Grafici e tabelle Ricerca libera

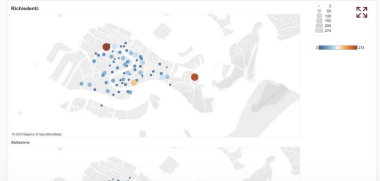
## Progetto ANR Processetti

Presentazione Processetti Soggetti Professioni Origini In città Mobilità Relazioni

### In città

#### Parrocchia di abitazione dei richiedenti Luogo di lavoro dei richiedenti

(periodo 1592-1604)

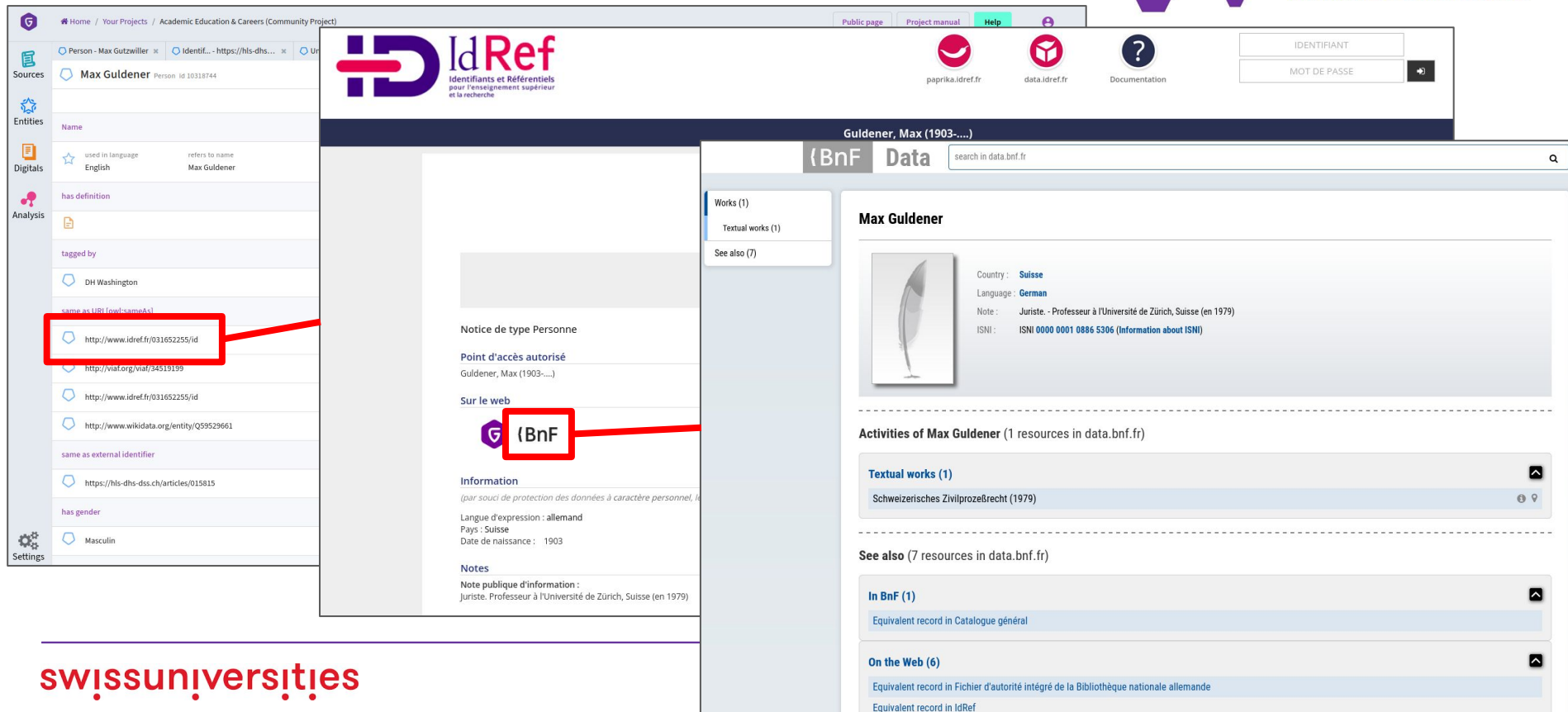


Richiedenti

Popolazione e densità della parrocchia

Relazione

# 4. Geovistory in the LOD



Public page | Project manual | Help

Identifiant: \_\_\_\_\_  
Mot de passe: \_\_\_\_\_

## IdRef

Identifiants et Référentiels pour l'enseignement supérieur et la recherche


**Guldener, Max (1903-....)**

(BnF) Data

search in data.bnf.fr

Works (1)  
Textual works (1)  
See also (7)

### Max Guldener

 Country: **Suisse**  
Language: **German**  
Note: **Juriste. - Professeur à l'Université de Zürich, Suisse (en 1979)**  
ISNI: **ISNI 0000 0001 0886 5306 (Information about ISNI)**

Activities of Max Guldener (1 resources in data.bnf.fr)

**Textual works (1)**

Schweizerisches Zivilprozessrecht (1979)

See also (7 resources in data.bnf.fr)

**In BnF (1)**

Equivalent record in Catalogue général

**On the Web (6)**

Equivalent record in Fichier d'autorité intégré de la Bibliothèque nationale allemande

Equivalent record in IdRef

Home / Your Projects / Academic Education & Careers (Community Project)

Person - Max Gutzwiller | Identif... - https://hls-dhs... | Ur

Max Guldener Person ID 10318744

Name

used in language refers to name  
English Max Guldener

has definition

tagged by

DH Washington

same as IRI (owl:sameAs)

<http://www.idref.fr/031652255/id>

<http://viaf.org/viaf/34519199>

<http://www.idref.fr/031652255/id>

<http://www.wikidata.org/entity/Q59529661>

same as external identifier

<https://hls-dhs-dss.ch/articles/015815>

has gender

Masculin

Notice de type Personne

Point d'accès autorisé  
Guldener, Max (1903-....)

Sur le web

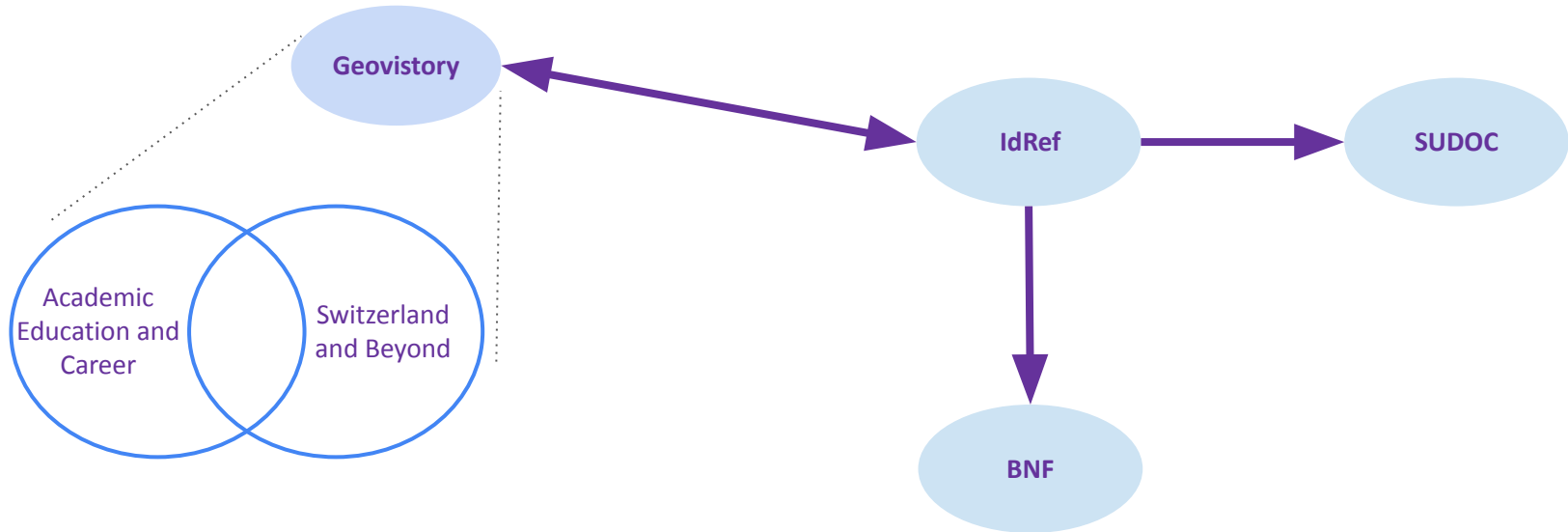
(BnF)

Information  
*(par souci de protection des données à caractère personnel, les données de cette notice sont partiellement masquées)*  
Langue d'expression : allemand  
Pays : Suisse  
Date de naissance : 1903

Notes  
Note publique d'information :  
Juriste. Professeur à l'Université de Zürich, Suisse (en 1979)

swissuniversities

# 4. Geovistory in the LOD Humanities



# 5. Community



Geovistory

Data Community Docs About | Log in

## Geovistory Community

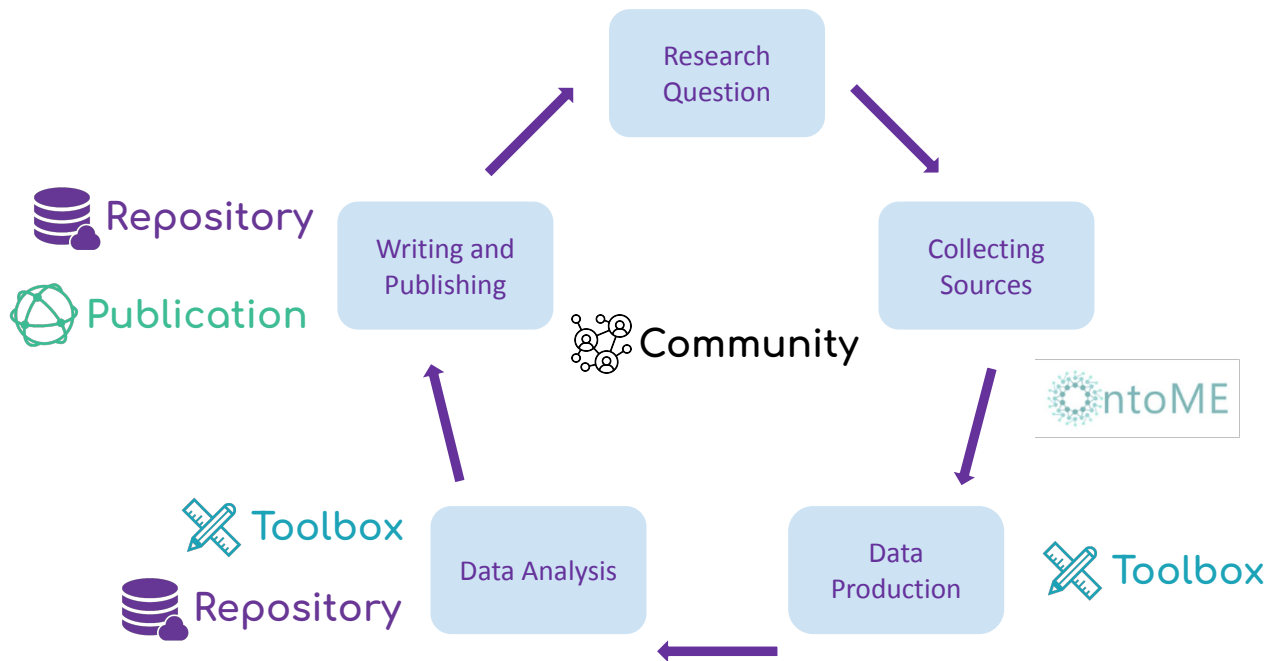
You are a researcher, developer, data analyst or just interested in humanities and their digital expressions? Then, the Geovistory community might be of interest to you!

Geovistory's community is open to you, no matter your background or expertise. At the core of Geovistory's environment is the community that participates in the production of linked open data (LOD), the analysis of information and knowledge graphs, the development of digital tools and components, the creation of ontology and profiles, or simply engages in the various discussions. [Learn more about Geovistory.](#)

### Discord

- Conferences
- Workshops
- Discord
- Newsletter

# Geovistory in the research cycle





Thank you!  
Questions?

[stephen.hart@unibe.ch](mailto:stephen.hart@unibe.ch)  
<https://www.geovistory.org/>