

# Danube University Krems

## Faculty of Education, Arts & Architecture

H2020 project: In/Tangible European Heritage -  
Visual Analysis, Curation and Communication (InTaVia)

Florian Windhager, TMO GA, Spotlight Members Session, 2020-11-23



Willendorf in der Wachau (~20 km)

Danube University Krems,  
Faculty of Education, Arts and Architecture

Image (c): Stadt Krems / Barbara Elser

## Faculty of Education, Arts & Architecture

### Departments:

- Continuing Education Research and Educational Technologies
- Higher Education Research
- Integrated Sensor Systems
- Building and Environment
- Image Science
- Arts and Cultural Studies

# **Department for Building and Environment**

## **Core Competencies**

- Energy-efficient, environmentally sensitive building optimization
- Blending constructional expertise with findings from human sciences
- Calculating and analyzing lifecycle costs of buildings
- Questions on how to preserve and develop UNESCO World Heritage Sites

## **Centers with focus on Cultural Heritage:**

- Center for Architectural Heritage and Infrastructure
- Center for Cultural Property Protection
- Scola Telc
- School of Reconstruction Accumoli

## **Study Courses with Focus on Cultural Heritage**

- Center for Architectural Heritage and Infrastructure
  - Conceptual Architectural Heritage Preservation (MSc)
  - Renovation and Revitalization
- Center for Cultural Property Protection:
  - Cultural Property Protection
  - Cultural Property Protection – Collections and Museum Specifics
  - Interdisciplinary Methods in Graphic Art, Book and Document Conservation
  - Protection of Cultural Property and Historic Monuments Law
  - Theoretical basics for Cultural Property Protection

## **Department for Image Science**

### **Visual Competence for the Digital Age**

- The Department for Image Science studies the global image revolution triggered by new media, and its impact on our culture.
- The Department for Image Science is an institution unique worldwide for research and innovative teaching in connection with almost all types of images, and at the same time currently the only place of study in the German-speaking countries dedicated to this task.
- Since 2005 it holds the first Chair Professor of Image Science in the German speaking countries (Professor O. Grau)
- The Department cooperates with the Göttweig Monastery and its Collection of Prints (c. 30.000 works)

## **Study Courses and Certified Programms**

- Image Science, MA
- Media Arts Cultures, MA (EMJMD)
- Crossmedia Design & Development, MA
- Cultural Data Studies, MA
- Exhibition Development, Cert. Progr.
- Ikonography, Cert. Progr.
- Image and Science, Cert. Progr.
- Photography, Cert. Progr.
- Visual Competencies, Cert. Progr.

The Department contains:

- Art & Digital Humanities Lab
- ADA - Archive of Digital Art
- Media Art Histories Textarchive

and cooperates with the Göttweig Monastery and its Collection of Prints (c. 30.000 works)

## **Department for Arts and Cultural Studies**

The department's centers deal with various types, contents and frameworks of art and culture especially focusing on the impact of major societal changes such as digitization and globalization.

- The Archives of Contemporary Arts
- Centre for Digital Memory Studies
- Developments in Teaching and Research
- Center for Applied Music Research
- Center for Applied Game Studies
- Center for Museum Collections Management

**[donau-uni.ac.at/dkk](http://donau-uni.ac.at/dkk)**

## **Study Courses and Certified Programmes**

- The Study course combines research with professional practical knowledge in the following areas:
  - Music Industry and Music Mediation
  - Media and Game Design
  - Media Pedagogy
  - Media Composition
  - Cultural Heritage in Museums and Collections

### **MA Programmes:**

- Action-oriented Media Pedagogy
- Collection Studies and Management
- Game Based Media & Education
- Gaming Studies
- Media Game Pedagogy
- Music for Applied Media
- Music Management

## **Spotlight Research Project**

- In/Tangible European Heritage - Visual Analysis, Curation and Communication EU- Funding (Nov 2020 – Oct 2023)

## The Faculty of Education, Arts and Architecture

### In Progress: **PhD in Cultural Heritage**

PhD Programm in Cultural Heritage

- Inter- and transdisciplinary Programm, in which all Departments are involved
- Set to start in autumn 2021
- Focus on Cultural Heritage and:
  - Digital Transformation
  - Societal Transformation
  - Effects of Climate Change
- Course combines disciplines such as Art History, History, Archaeology, Anthropology, Museology, Conservation Studies, Architecture and building and construction science.
- Connected with Cultural Heritage are in particular questions concerning the conservation and protection of cultural heritage but also issues of Identity, Culture, Economy, Sustainability as well as Participation and Inclusion of the society.

dbu Building & Environment

donau-uni.ac.at/ dbw Image Science

dkk Arts and Cultural Studies



Spotlight Project



## In/Tangible European Heritage - Visual Analysis, Curation & Communication



Horizon 2020  
European Union funding  
for Research & Innovation



November 2020 – October 2023



Danube University  
Krems



Free University  
Amsterdam



Slovenian Academy of  
Sciences & Arts



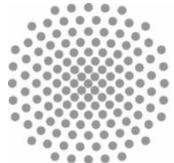
Aalto  
University



University of Southern  
Denmark



Austrian Center  
for DH & CH



Stuttgart  
University

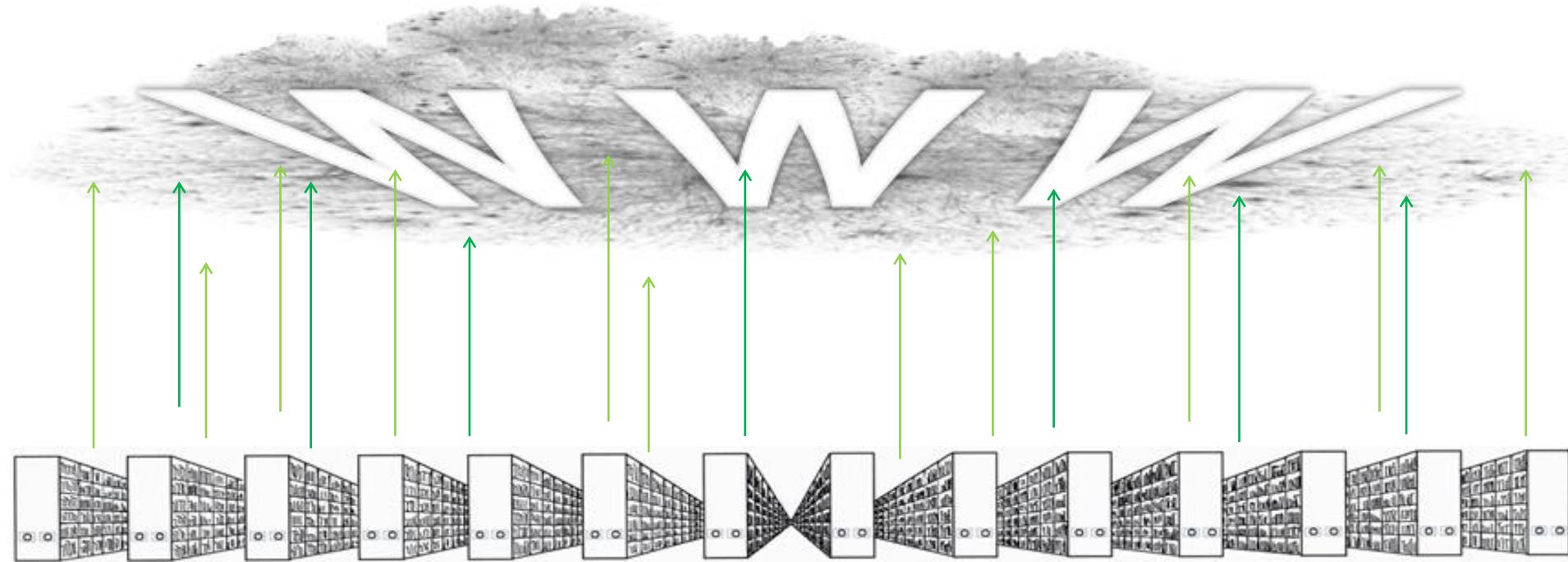


Fluxguide  
GesmbH

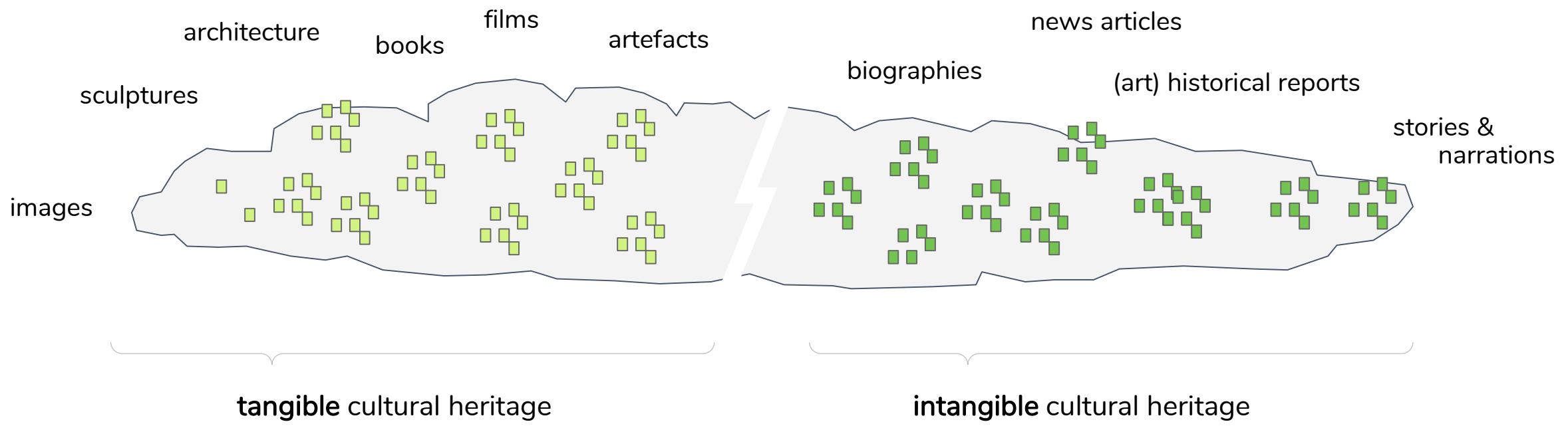


University of  
Helsinki

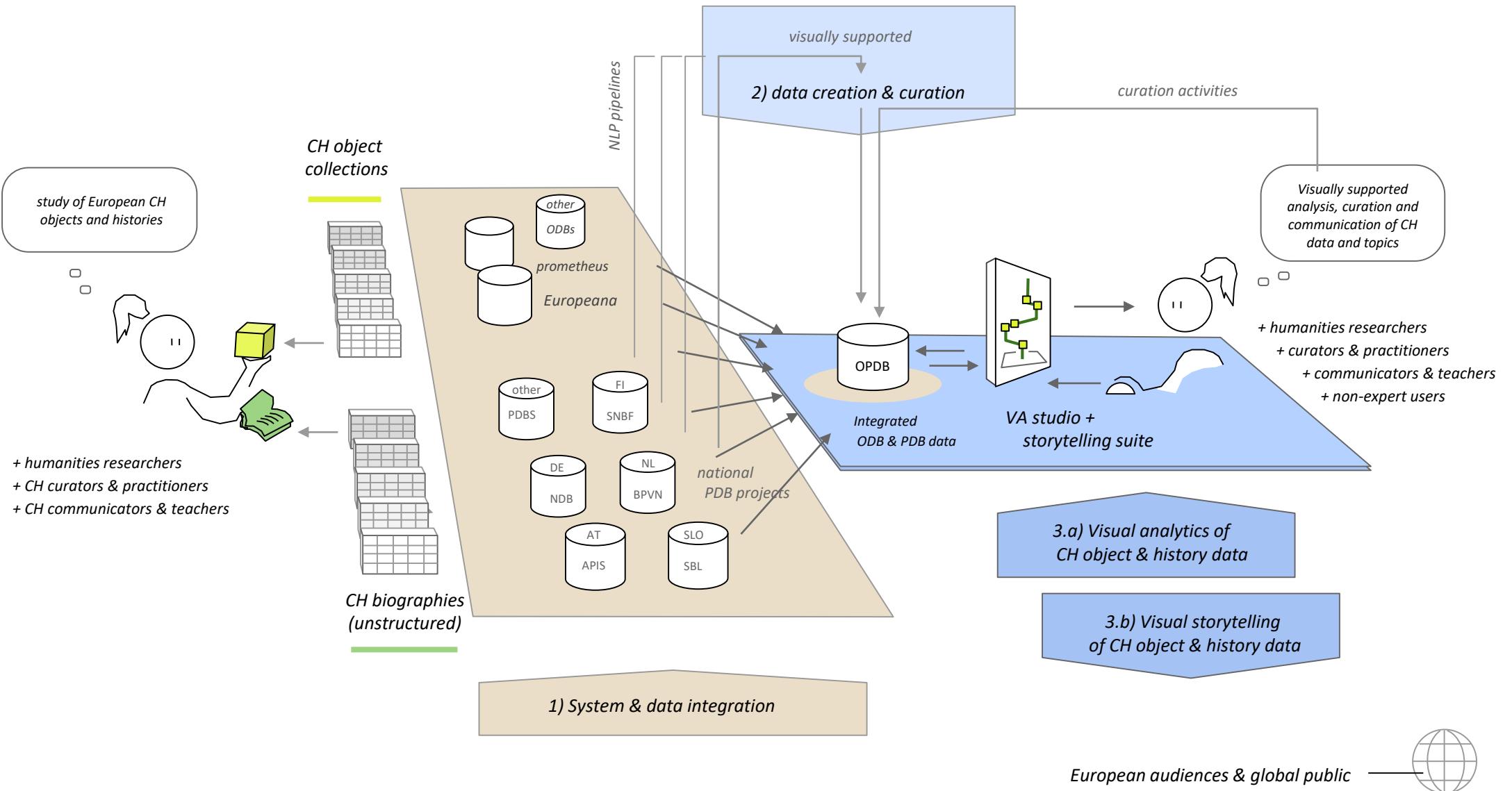
Plus: 7 cultural heritage object aggregators and 12 national biography projects



The digital transformation has worked its way into cultural knowledge collections since decades, resulting in a multitude of mostly unconnected, local object and document collections (i.e. GLAM-databases).

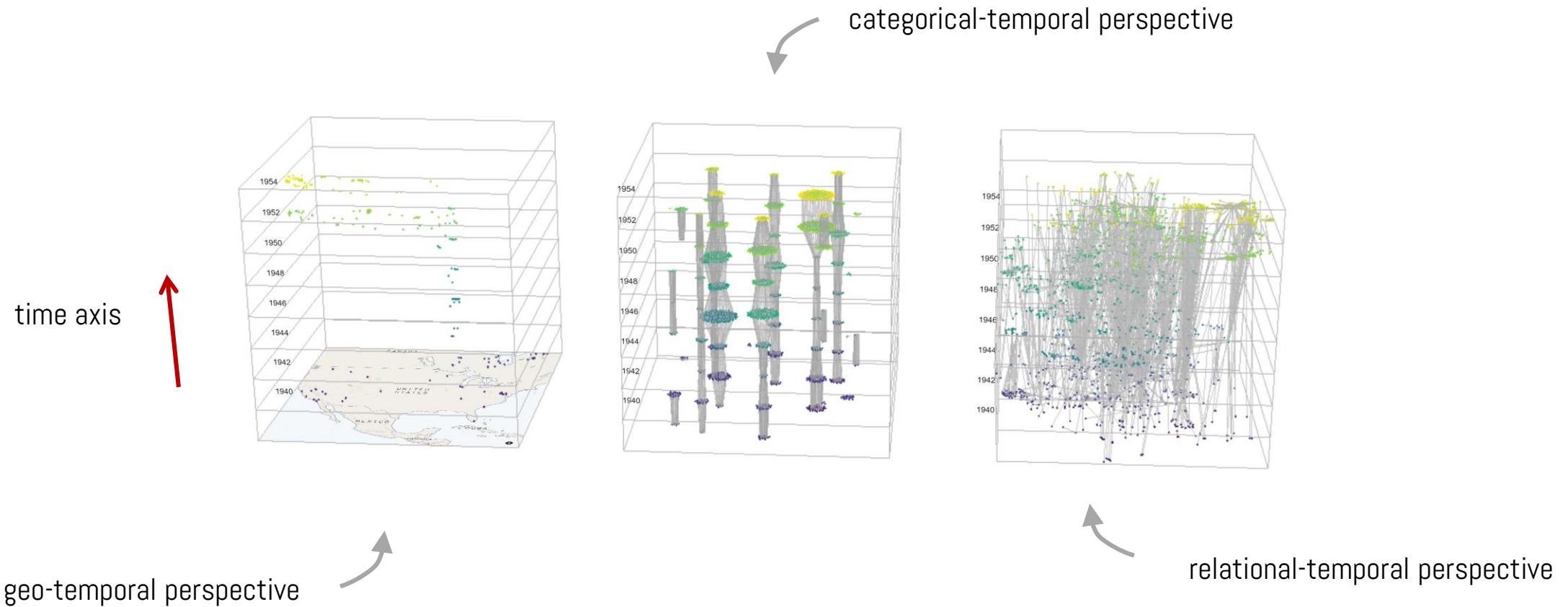


- How can we reassemble tangible and intangible cultural heritage information? → **Linking Data**
- How can we make this information more accessible & comprehensible? → **Visualization & Storytelling**
- How can we foster the continuous curation & refinement of this information? → **NLP, AI & manual curation**



# The PolyCube system of collection visualization

## A Geo-, Set- & Network-Map Viewer „with a time slider“



FWF project No. P28363-24

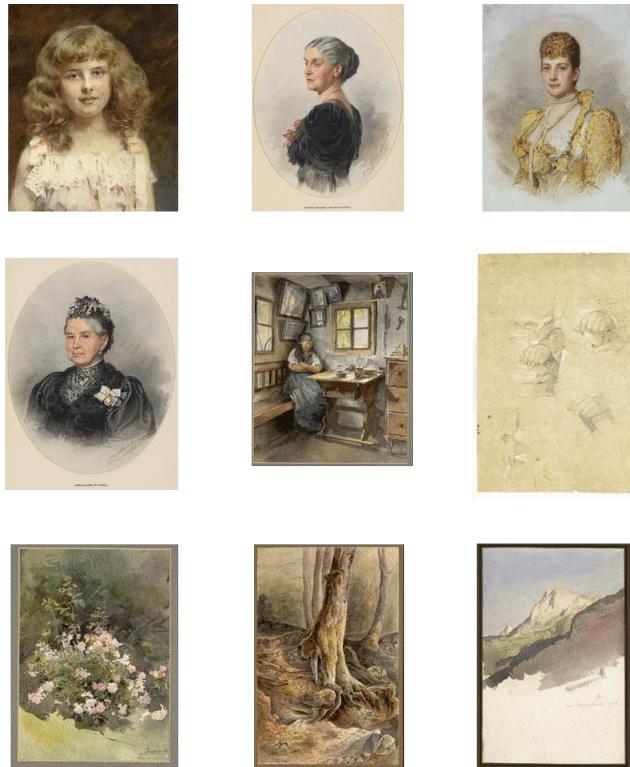
System Paper: <https://doi.org/10.1109/mcg.2020.2985368>  
Interactive Demo: <https://danubevislab.github.io/polycube/cga2020>



e.g. **Josefine Swoboda**  
1861-1924  
Austrian painter

### Tangible objects (e.g., Europeana)

<https://www.europeana.eu>

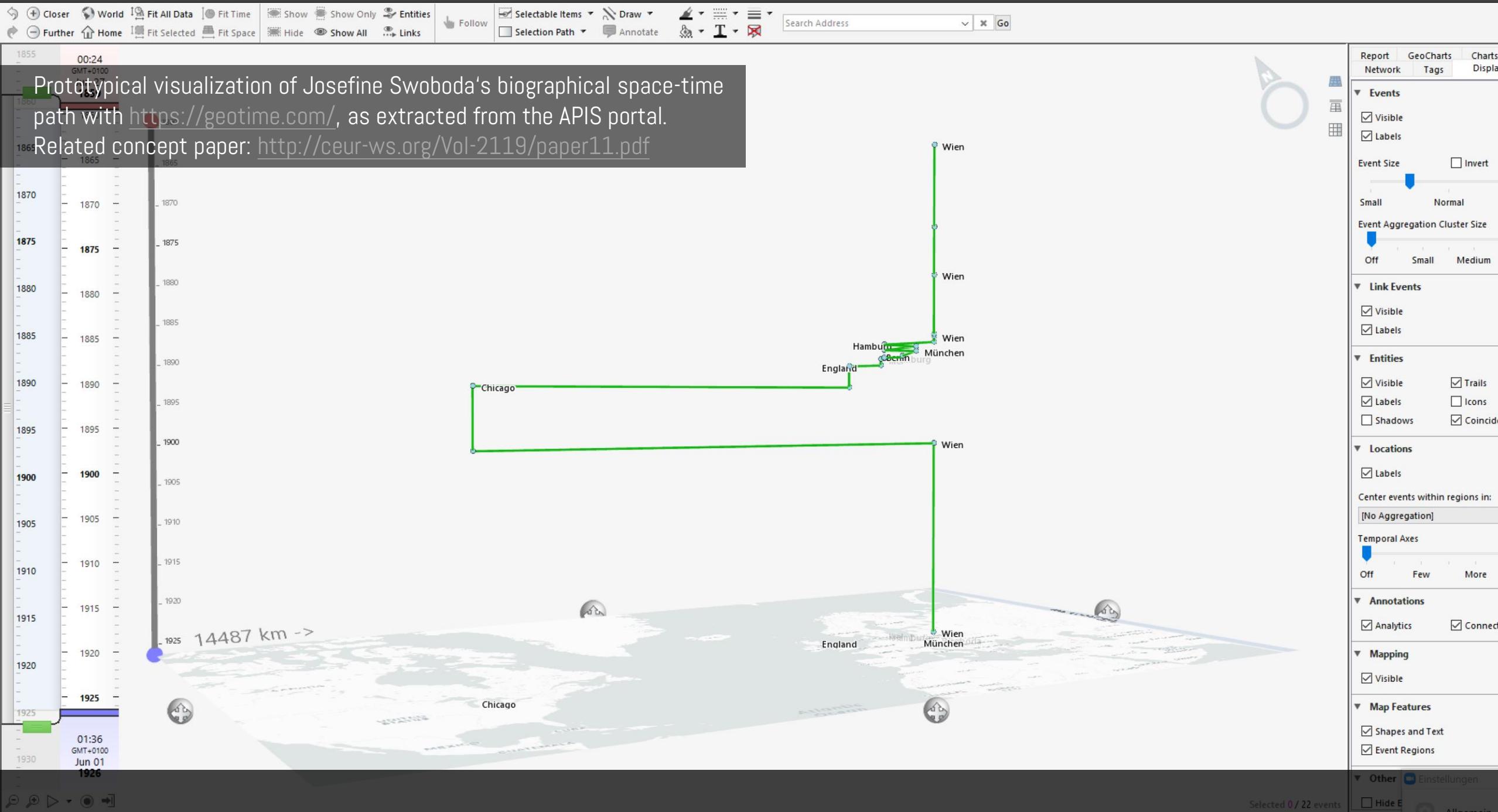


### intangible information (e.g., APIS)

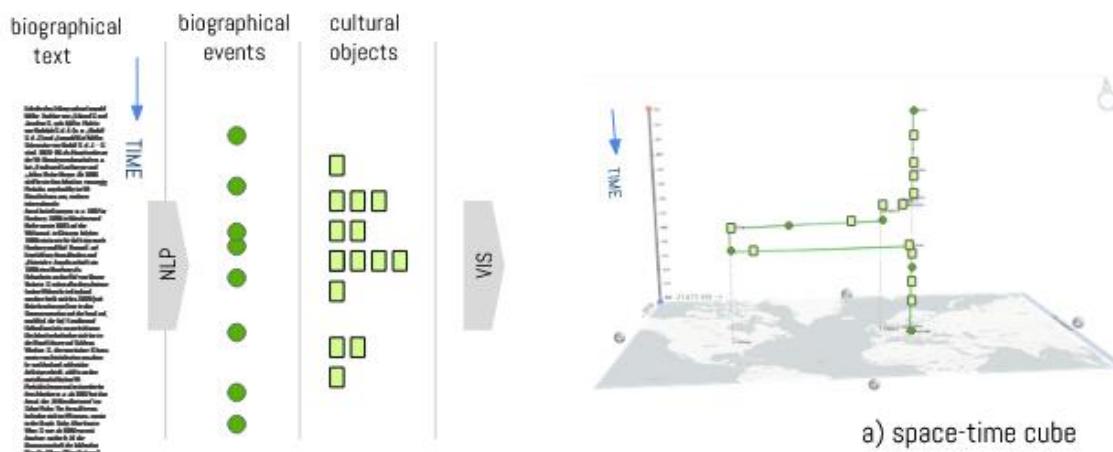
<https://www.biographien.ac.at>

#### **Swoboda, Josefina (1861–1924), Malerin**

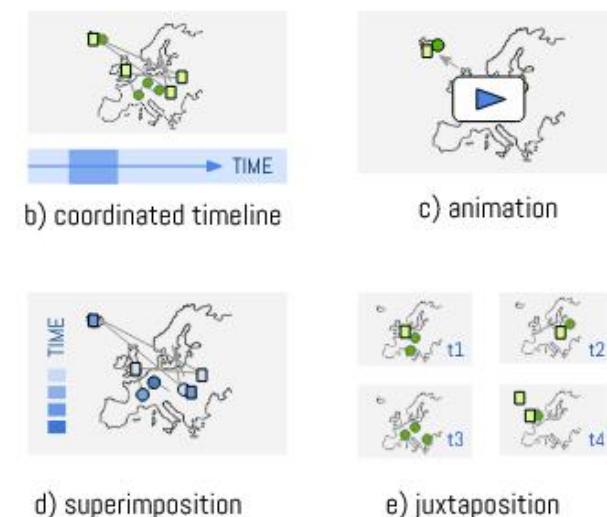
Swoboda Josefina, Malerin. Geb. Wien, 29. 1. 1861; gest. ebd., 27. 10. 1924; röm.-kath. Enkelin des Lithographen Leopold Müller, Tochter von →Eduard S. und Josefina S., geb. Müller, Nichte von Rudolph S. d. Ä. (s. u. →Rudolf S. d. J.) und →Leopold Karl Müller, Schwester von →Rudolf S. d. J. – S. stud. 1878–86 als Hospitantin an der Wr. Kunstgewerbeschule u. a. bei →Ferdinand Laufberger und →Julius Victor Berger. Ab 1886 stellte sie ihre Arbeiten, vorrangig Porträts, regelmäßig im Wr. Künstlerhaus aus, weitere internationale Ausst.beteiligungen, u. a. 1887 in Hamburg, 1888 in München und Berlin sowie 1893 auf der Weltausst. in Chicago, folgten. 1888 reiste sie für Aufträge nach Hamburg und Kiel. Vermutl. auf Empfehlung ihres Bruders und →Heinrich v. Angelis erhielt sie 1890 eine Berufung als Hofmalerin an den Hof von Queen Victoria. S. nahm allerdings keinen festen Wohnsitz in England, sondern hielt sich bis 1899 (mit Unterbrechungen) nur in den Sommermonaten auf der Insel auf, um Mitgl. der kgl. Familie und Hofbedienstete zu porträtieren. Die Arbeiten befinden sich tw. in der Royal Library auf Schloss Windsor. S., die vom österr. K.haus sowie von Aristokraten aus dem In- und Ausland zahlreiche Aufträge erhielt, zählte zu den meistbeschäftigt Wr. Porträtiertinnen und präsentierte ihre Arbeiten u. a. ab 1902 bei den Ausst. der „8 Künstlerinnen“ im Salon Pisko. Tle. ihres Œuvres befinden sich im Wienmus. sowie in der Graph. Smlg. Albertina in Wien. S. war ab 1886 vorerst Amateur, später k. M. der Genossenschaft der bildenden Künstler Wiens (Künstlerhaus).



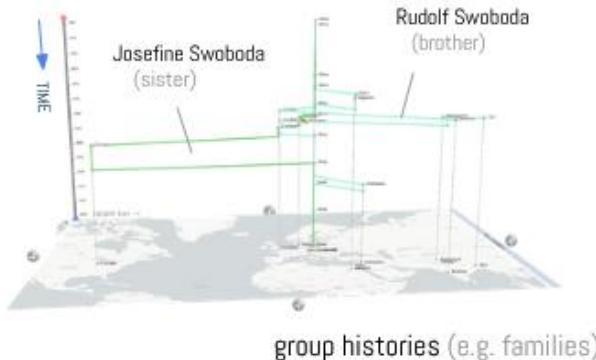
## 2) joint visualization of biography + object data



## 1b) multiple time-oriented visualization methods



## 3) visualization of prosopographical composites (beyond individual actors)



## Associated Heritage Institutions (selection)

- Europeana (EU)
- prometheus Bilddatenbank (DE)
- Time Machine Organization (EU)
- Royal Library of the Netherlands (NL)
- Oxford Dictionary of National Biography (UK)
- Albertina Museum (AT)
- Deutsches Museum Munich (DE)
- Edith Cowan University (AU)
- Austrian Gallery Belvedere (AT)
- Huygens ING KNAW (NL)
- NIOD Institute for War, Holocaust & Genocide (NL)
- German Literature Archive Marbach (DE)
- Ghent Centre for Digital Humanities (BE)
- Your institution?

Collaboration for European Museum  
Collaboration & Innovation Spaces  
DT-Transformations-24-2020



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# thank you.

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