

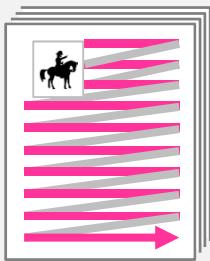
Zur polykubistischen Visualisierung von Biographiedaten

Windhager F., Mayr E., Schreder, G., Schlögl, M., Bernád, Á. Z., Wandl-Vogt, E., & Gruber, C.

Donau-Universität Krems | ÖAW / ACDH

Digital Humanities im deutschsprachigen Raum (DHd) 2017, Bern

BIOGRAPHISCHES WISSEN



komplexe individuelle Datensätze
(multidimensional, zeitorientiert)



komplexe aggregierte Korpora
(z.B. 20.000 Biographien des ÖBL)

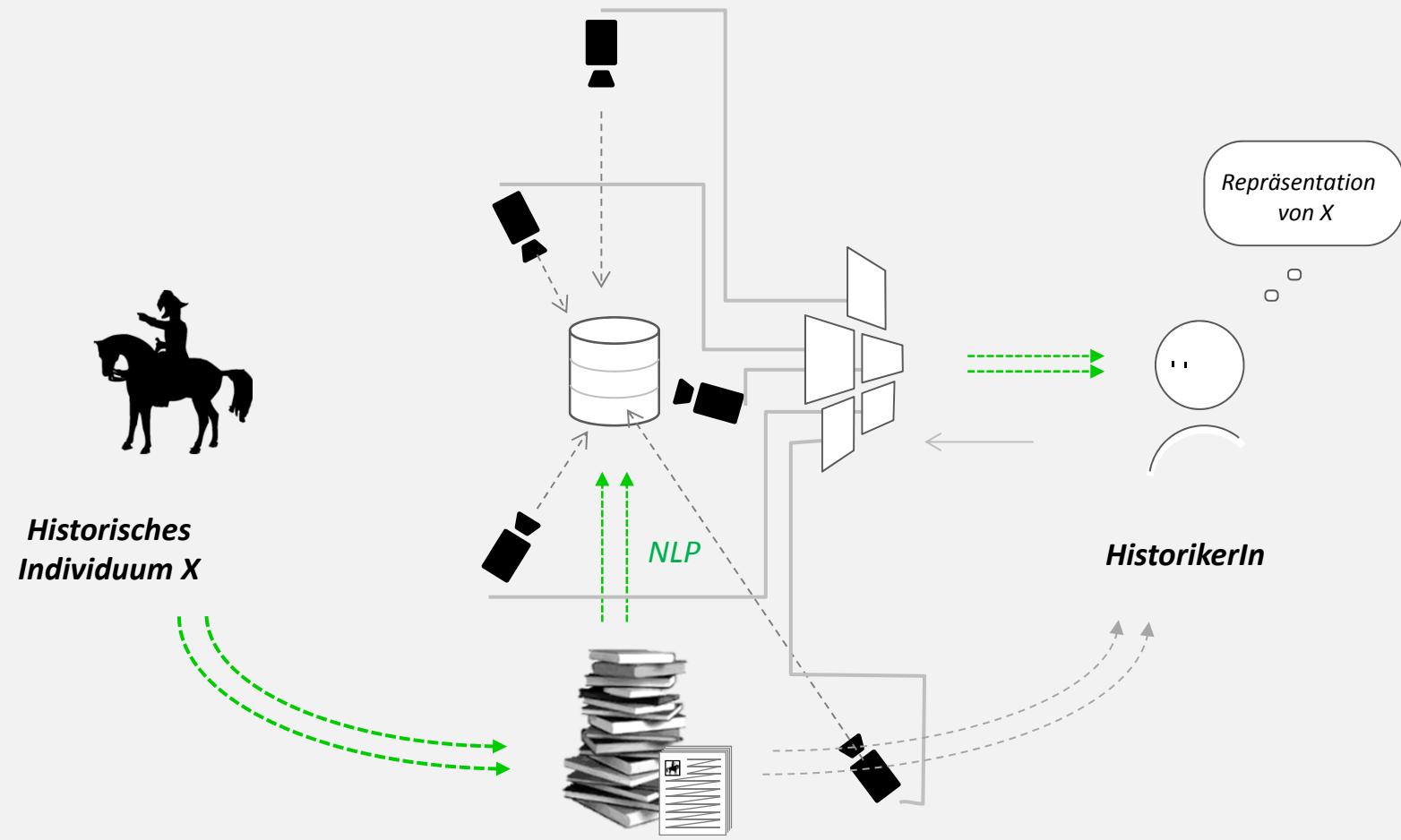
🎯 *Zielsetzung:* Visuelle Untertützung
von „close reading“ auf Individualebene

🎯 *Zielsetzung:* Visuelle Untertützung
von „distant reading“ auf Korpusebene

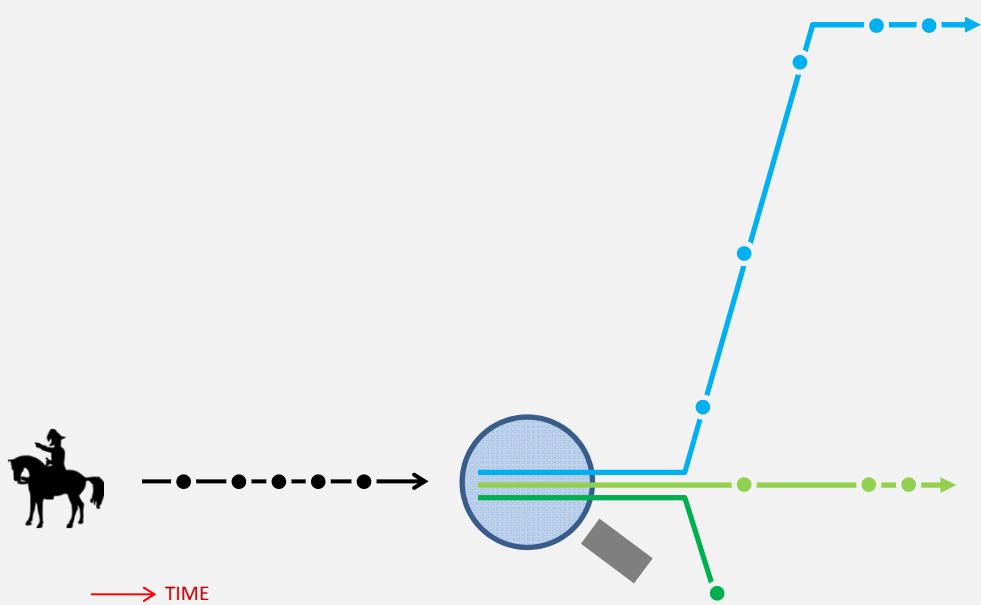
LEITFRAGE

Wie können Potentiale der visuellen Analyse für BiographieforscherInnen in einem kohärenten Framework für close & distant reading erschlossen werden?

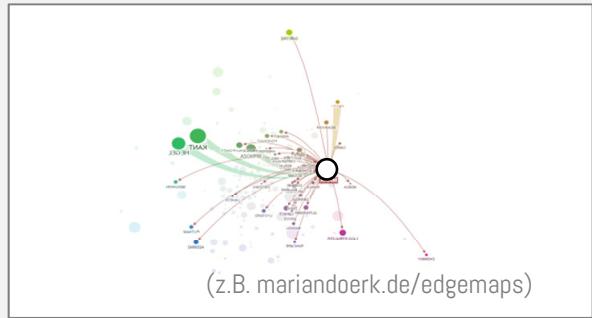
GENERIERUNG STRUKTURIERTER BIOGRAPHIEDATEN



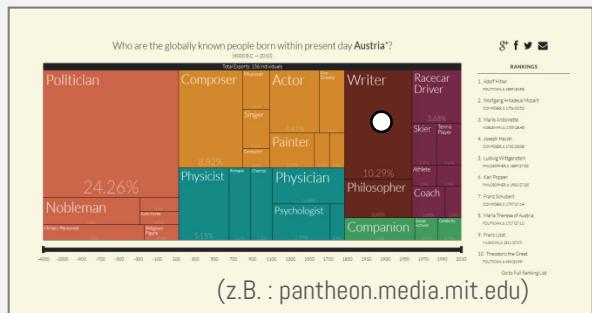
MULTIPLE OPTIONEN DER VISUALISIERUNG VON BIOGRAPHIEDATEN



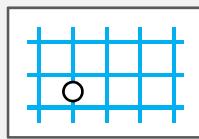
Geografische Kartierung



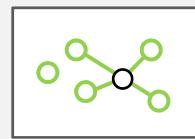
Relationale Kartierung



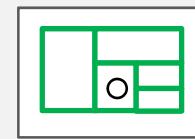
Kategoriale Kartierung



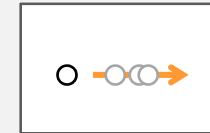
maps



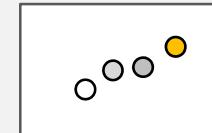
networks



treemaps



timelines



superimposition



animation



space-time cube

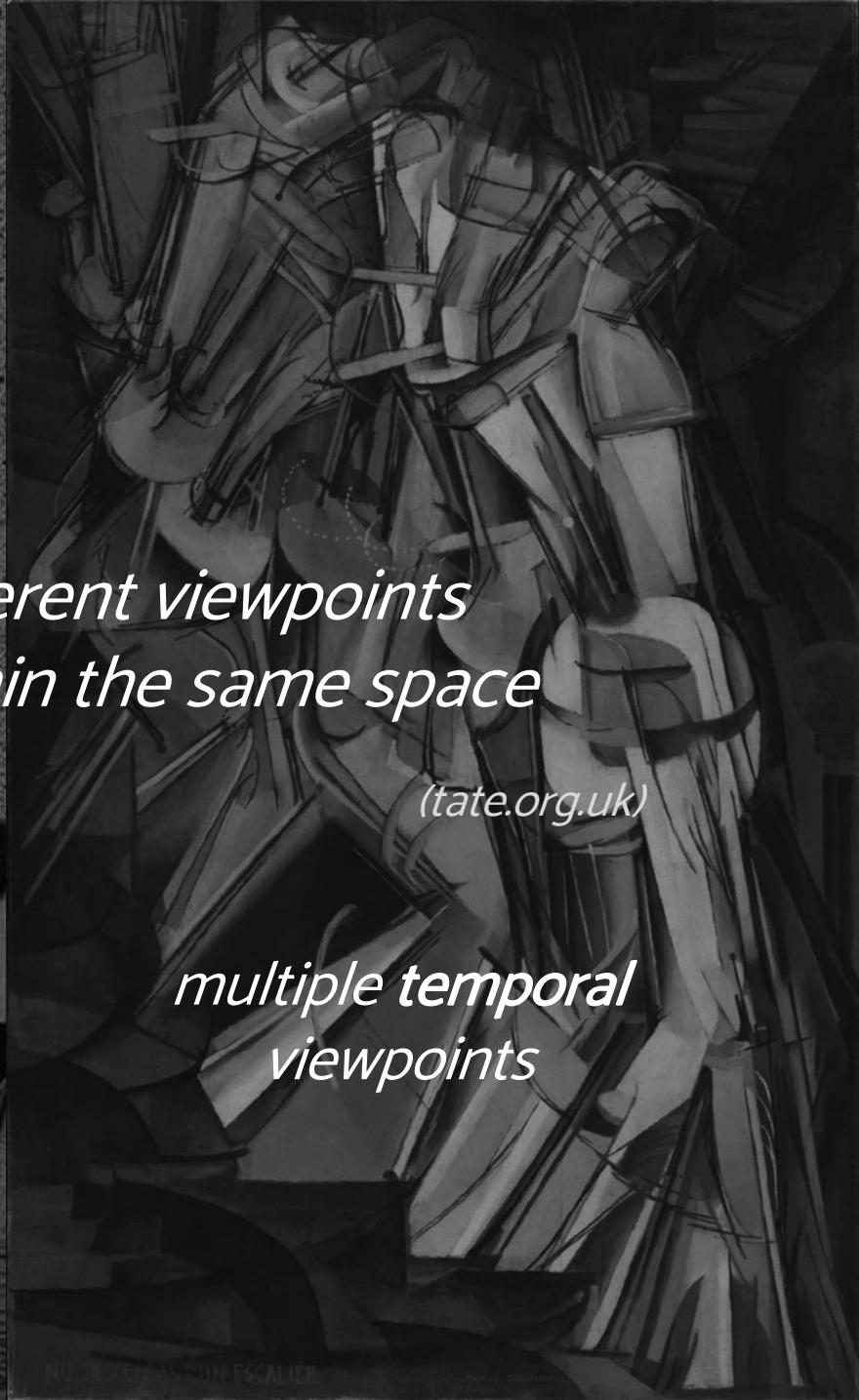
A black and white Cubist painting by Georges Braque. It depicts a nude figure from behind, walking down a set of stairs. The figure is shown from multiple angles simultaneously, with geometric planes and lines creating a sense of three-dimensional space. The background features architectural elements like a railing and a doorway.

cubism

*artists aimed to show different viewpoints
at the same time and within the same space*

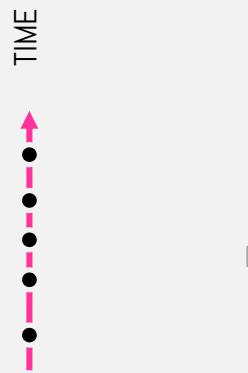
(tate.org.uk)

*multiple spatial
viewpoints*

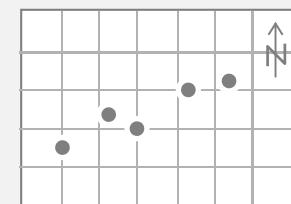
A black and white Cubist painting by Georges Braque. It depicts a nude figure from behind, walking down a set of stairs. The figure is shown from multiple angles simultaneously, with geometric planes and lines creating a sense of three-dimensional space. The background features architectural elements like a railing and a doorway.

*multiple temporal
viewpoints*

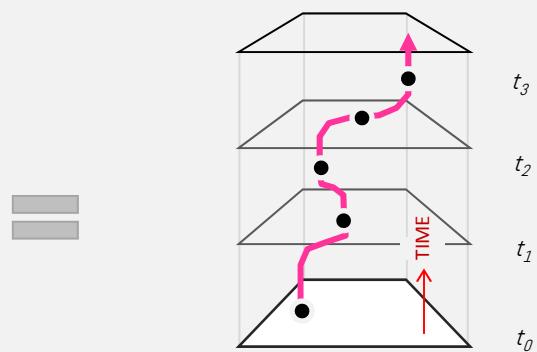
Space-Time Cubism (Chronogeographie)



Chronographie



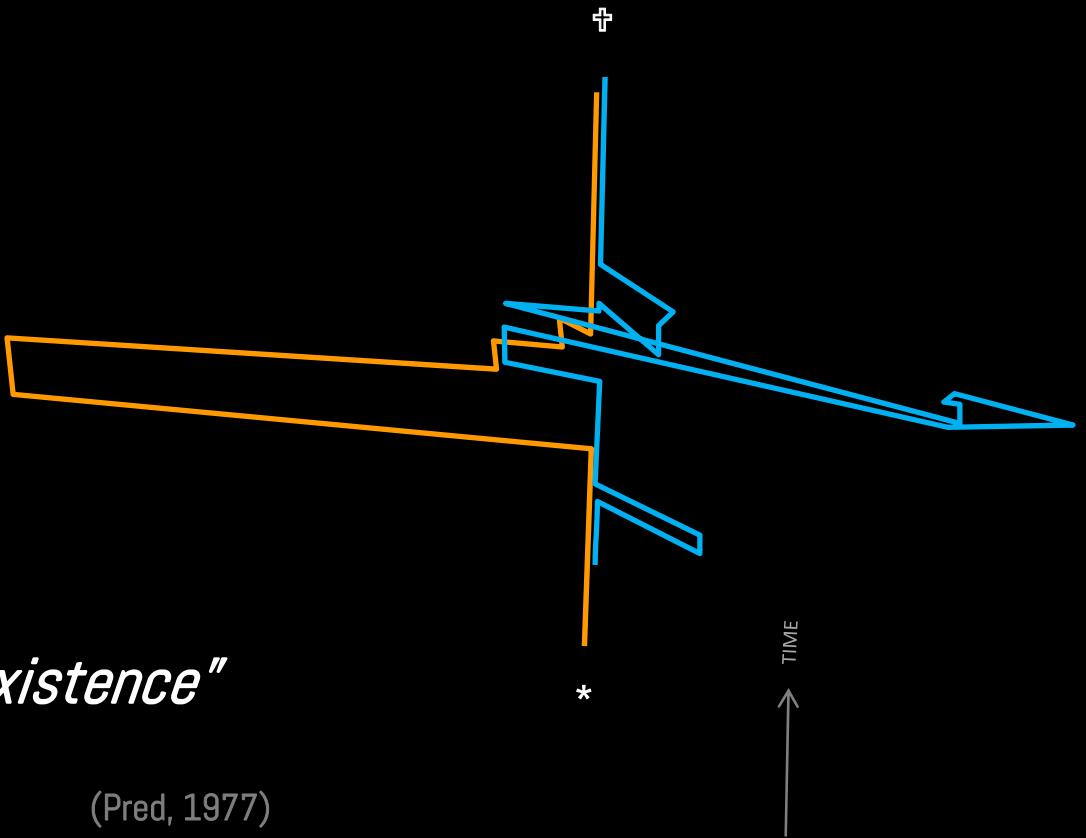
Geographie

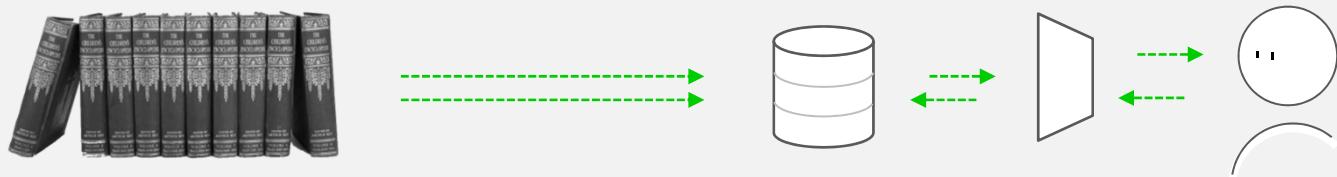


Chronogeographie

*Mapping the
"choreography of existence"*

(Pred, 1977)





Österreichisches
Biographisches Lexikon (ÖBL)

APIS Projekt
ÖAW / ACDH

= web-basiertes Interface zur

- Abfrage
- Editierung und
- Visualisierung von Biografiedaten

Auswahl von 9 AkteurInnen

- a) viel geotemporale Bewegung
- b) hohe geographische Diversität
- c) verschiedene Berufsgruppen (Gideon Datenbank)

Friedrich Piffl (Bischof)

http://www.biographien.ac.at/oebl/oebl_P/Piffl_Friedrich_1864_1932.xml;internal&action=hilite.action&Parameter=piffl%20friedrich

Ignatius Trebitsch-Lincoln (Abenteurer)

http://www.biographien.ac.at/oebl/oebl_T/Trebitsch-Lincoln_Ignatius-Timothy_1879_1943.xml;internal&action=hilite.action&Parameter=trebitsch

Wilhelm Thaller (Schauspieler)

http://www.biographien.ac.at/oebl/oebl_T/Thaller_Willi_1854_1941.xml;internal&action=hilite.action&Parameter=thaller%20willi

Wilhelm Thöny (Maler)

http://www.biographien.ac.at/oebl/oebl_T/Thoeny_Wilhelm_1888_1949.xml;internal&action=hilite.action&Parameter=th%F6ny%20wilhelm

Edvard Rusjan (Pilot)

http://www.biographien.ac.at/oebl/oebl_R/Rusjan_Edvard_1886_1911.xml;internal&action=hilite.action&Parameter=rusjan%20edvard

Emil Schrutka-Rechtenstamm: (Jurist)

http://www.biographien.ac.at/oebl/oebl_S/Schrutka-Rechtenstamm_Emil_1852_1918.xml;internal&action=hilite.action&Parameter=schrutka

Rudolf Swoboda (Maler)

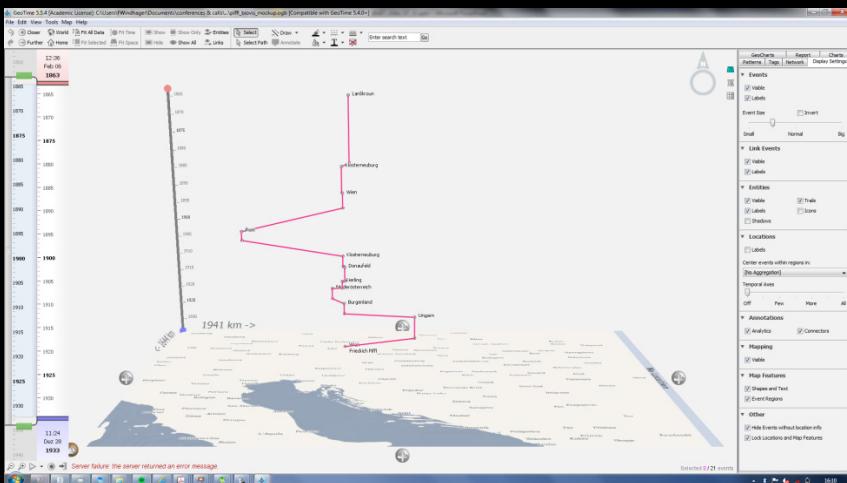
http://www.biographien.ac.at/oebl/oebl_S_43/Swoboda_Rudolf_1859_1914.xml;internal&action=hilite.action&Parameter=swoboda%20rudolf

Josefine Swoboda: (Malerin)

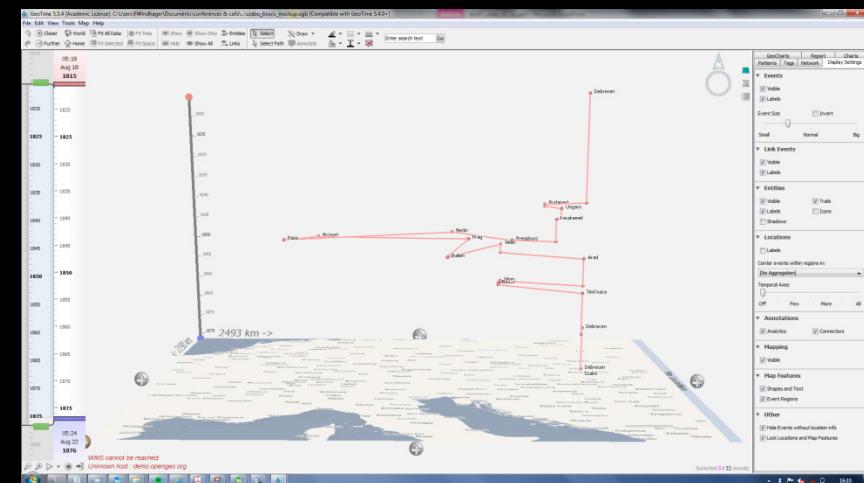
http://www.biographien.ac.at/oebl/oebl_S_43/Swoboda_Josefine_1861_1924.xml;internal&action=hilite.action&Parameter=swoboda%20josefine

Joszef Szabo (Theaterdirektor)

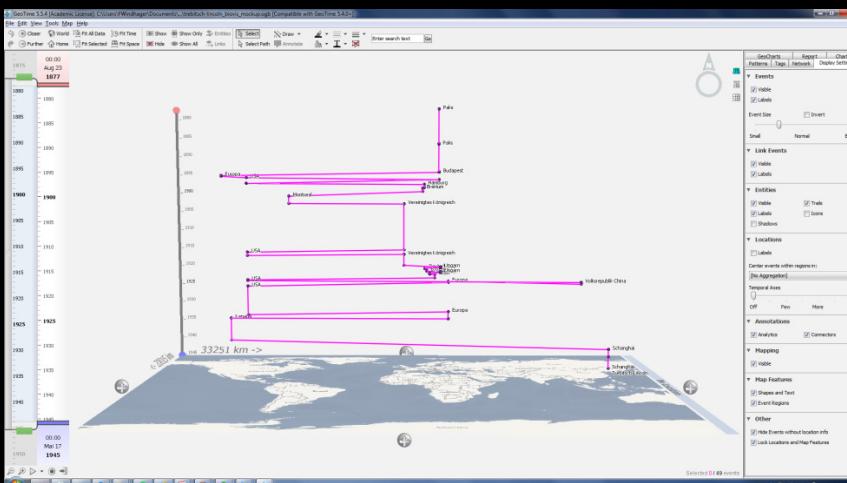
http://www.biographien.ac.at/oebl/oebl_S_43/Szabo_Jozsef_1816_1875.xml;internal&action=hilite.action&Parameter=szab%F3%20j%F3zset



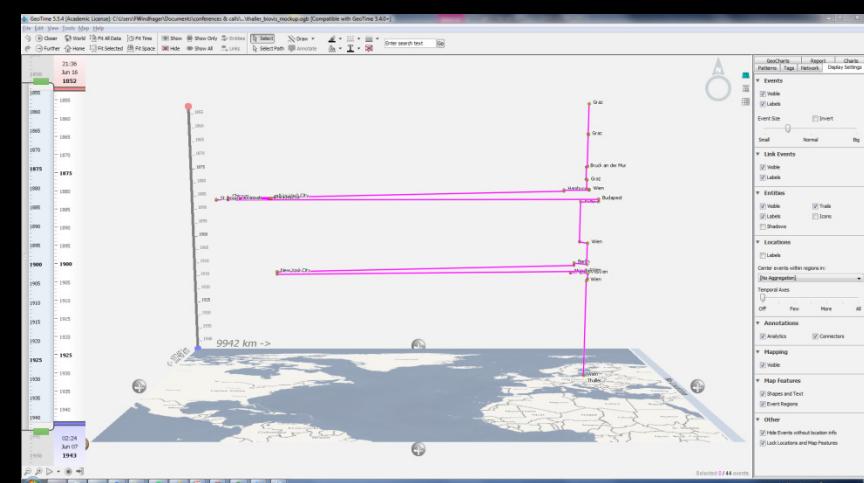
Friedrich Piffl
(Bischof)



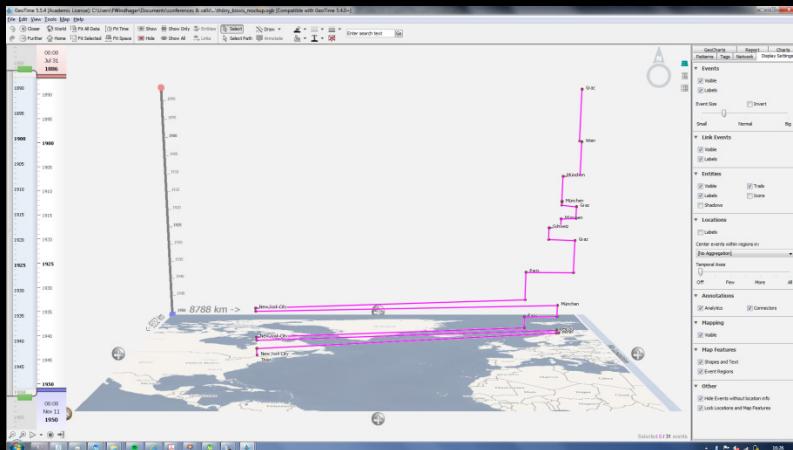
Josef Szabo
(Sänger, Theaterdirektor)



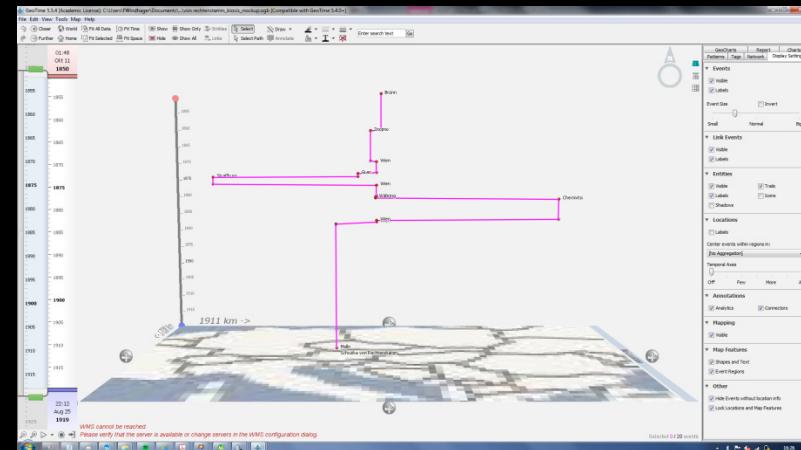
Ignatius Trebitsch-Lincoln (Abenteurer)



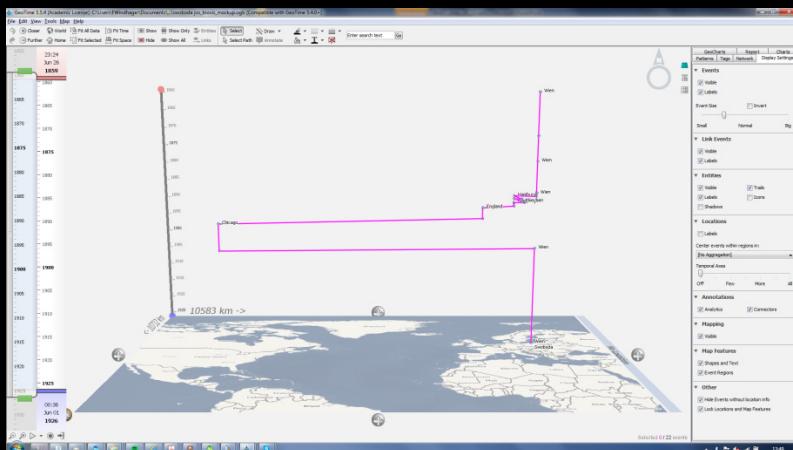
Willi Thaller
(Schauspieler & Sänger)



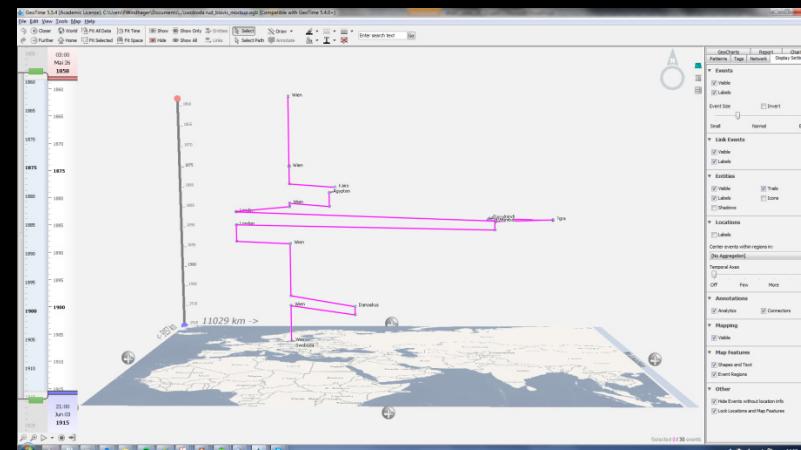
*Wilhelm Thöny
(Maler)*



*Emil Schrutka von Rechtenstamm
(Jurist)*



*Josefine Swoboda
(Malerin)*

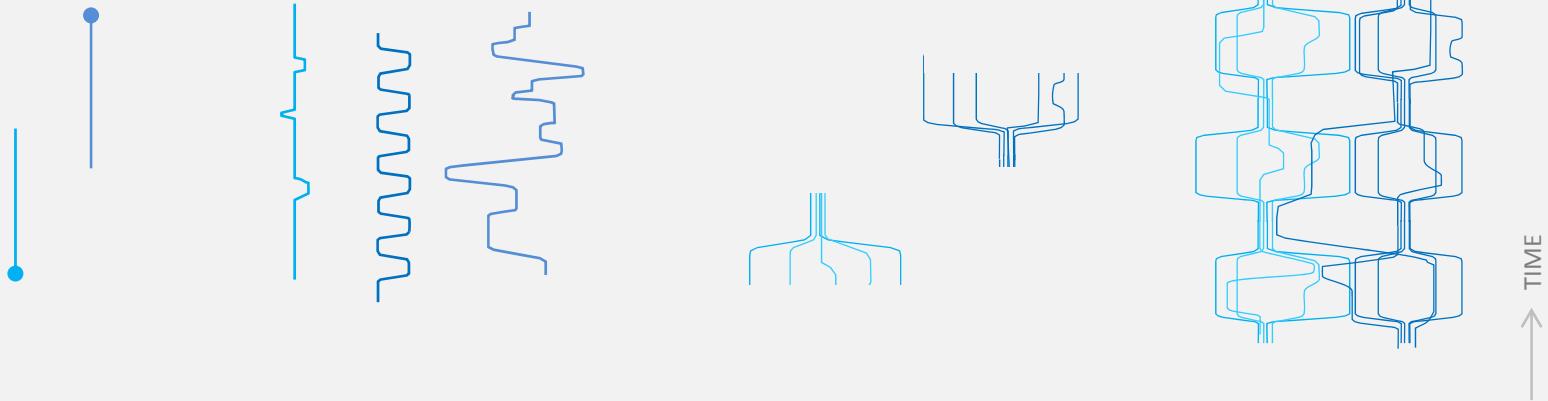


*Rudolf Swoboda
(Maler)*

[Visualizations are also interesting for non-expert users],
because while they are interacting with them, their 'pattern-mind' is learning ,
even though they don't know the numbers behind that.

(Valdis Krebs, 2011)

A new kind of pattern language



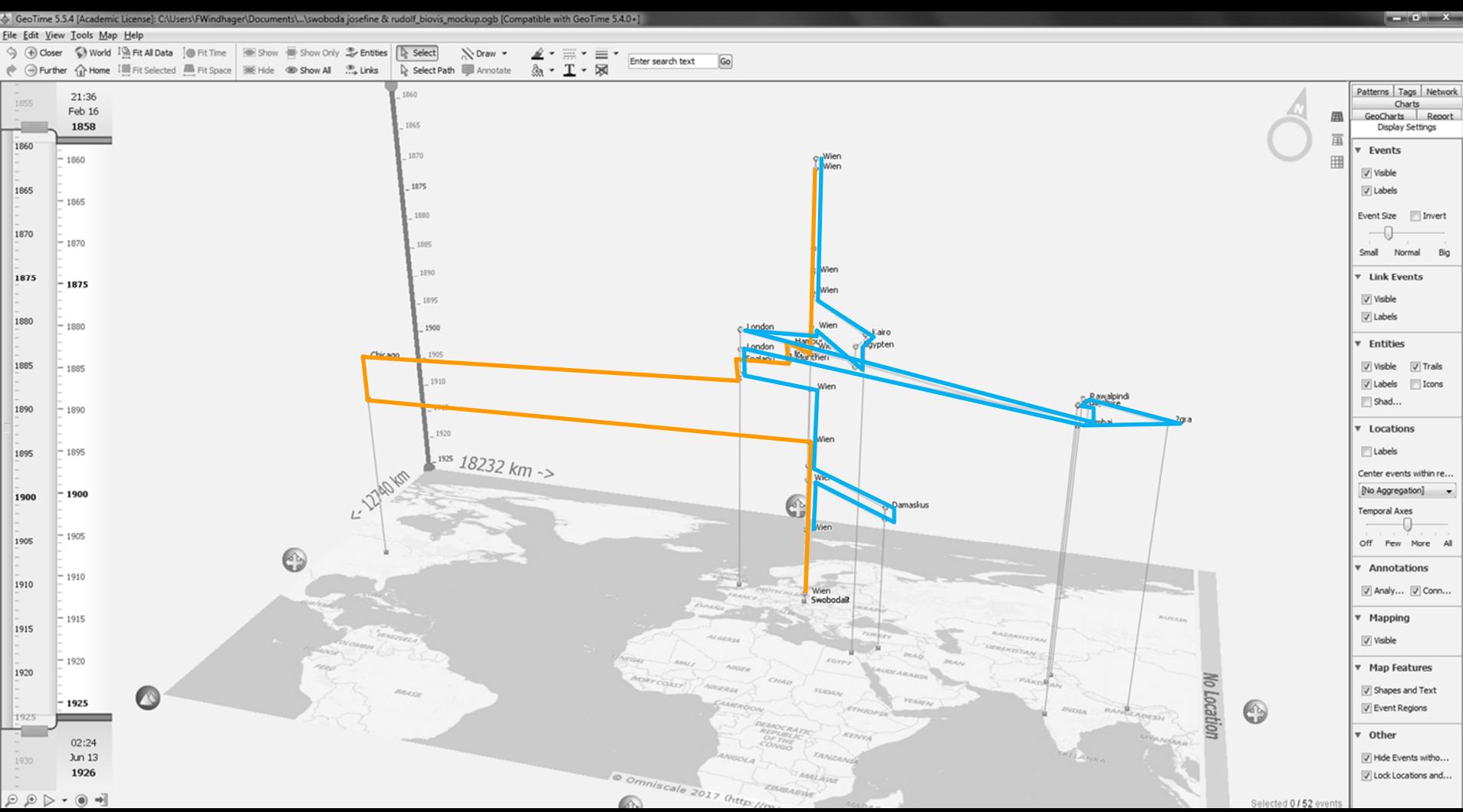
birth / death

individual movements

convergence / divergence

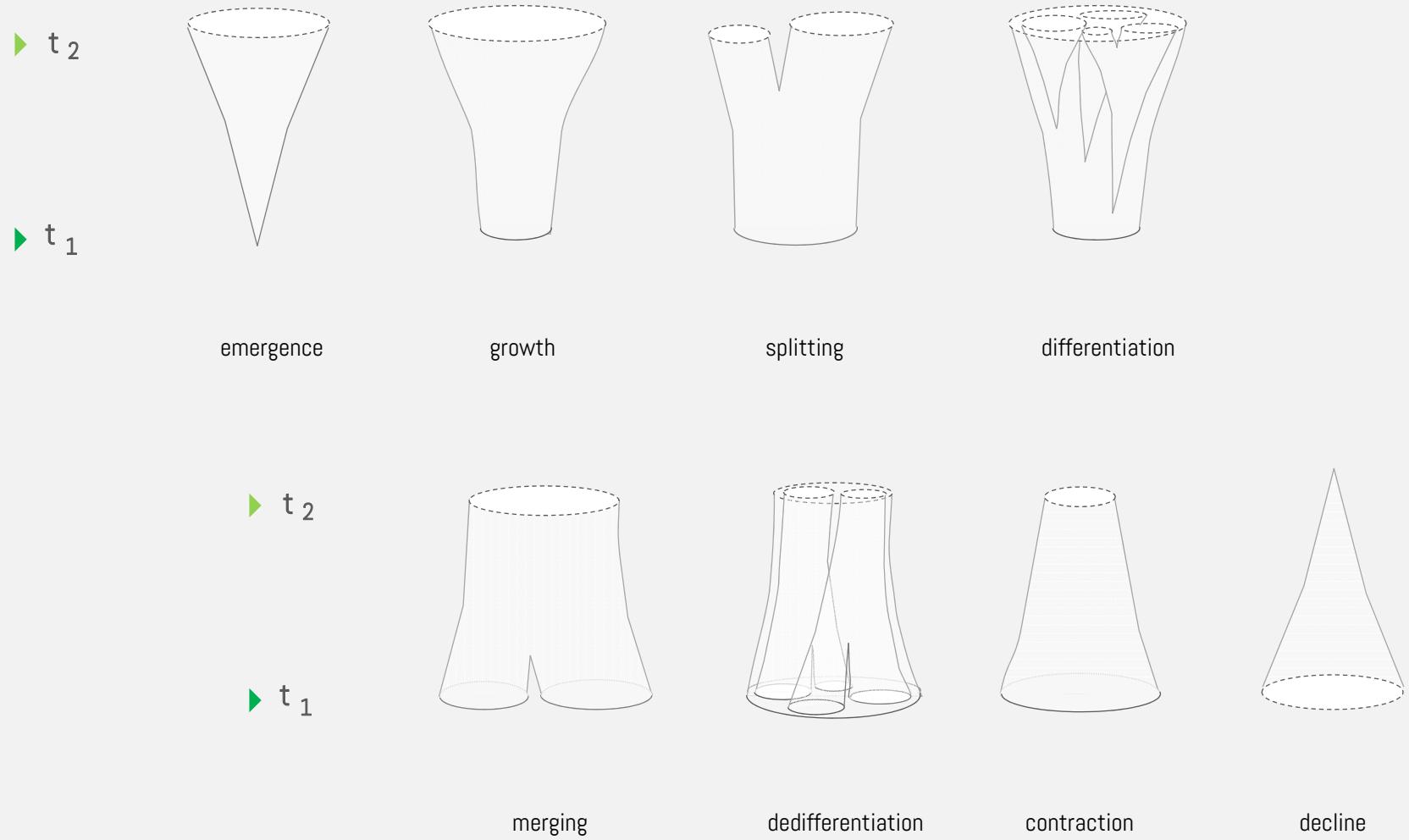
compound patterns

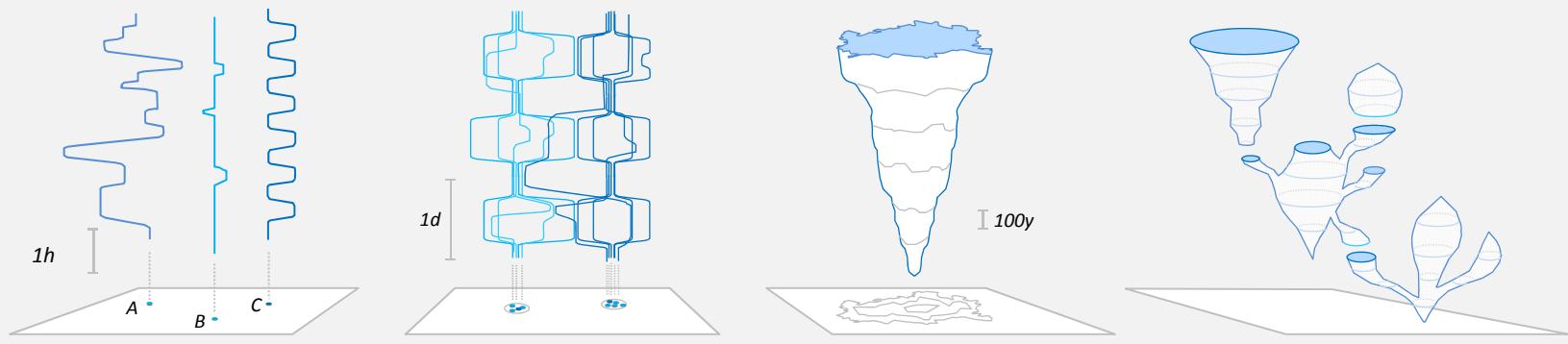
- geotemporal location
- duration
- spatial extension
- temporal rhythms
- geotemporal diversity



Diskussion & Ausblick

i) universal entity visualization





*individuelle
Bewegungsmuster*

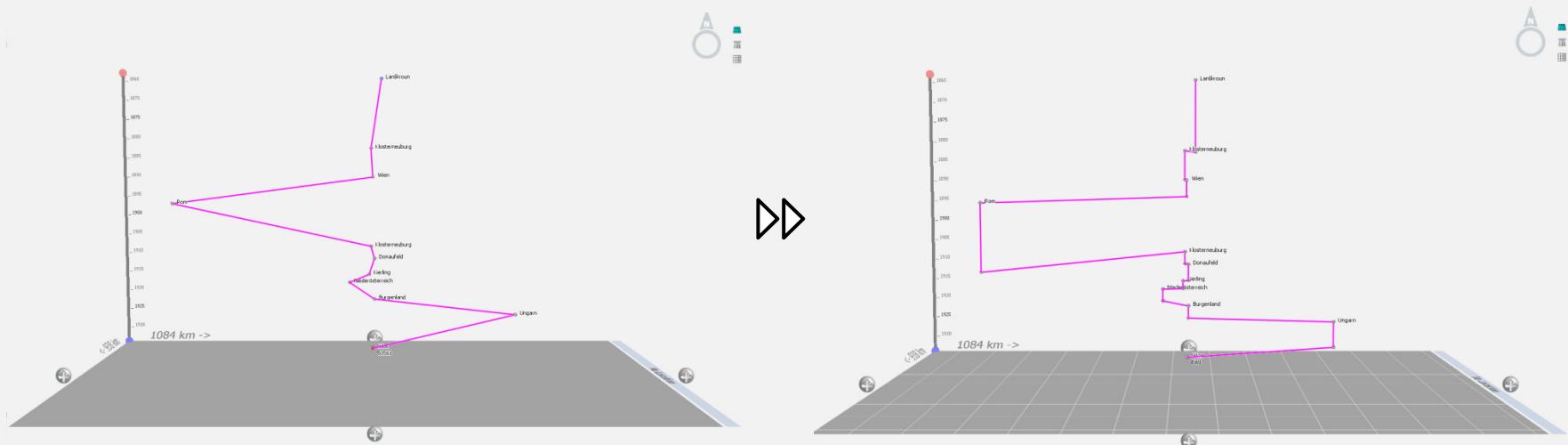
*kollektive
Choreographie*

*Evolution
einer Stadt*

*Diffusion von
Innovation*

[Windhager, 2015]

ii) InfoVis als Approximation an den State of Data



Visualising the »Un-seen«: Towards Critical Approaches and Strategies of Inclusion in Digital Cultural Heritage Interfaces

Katrin Glinka, Sebastian Meier, Marian Dörk

University of Applied Sciences Potsdam

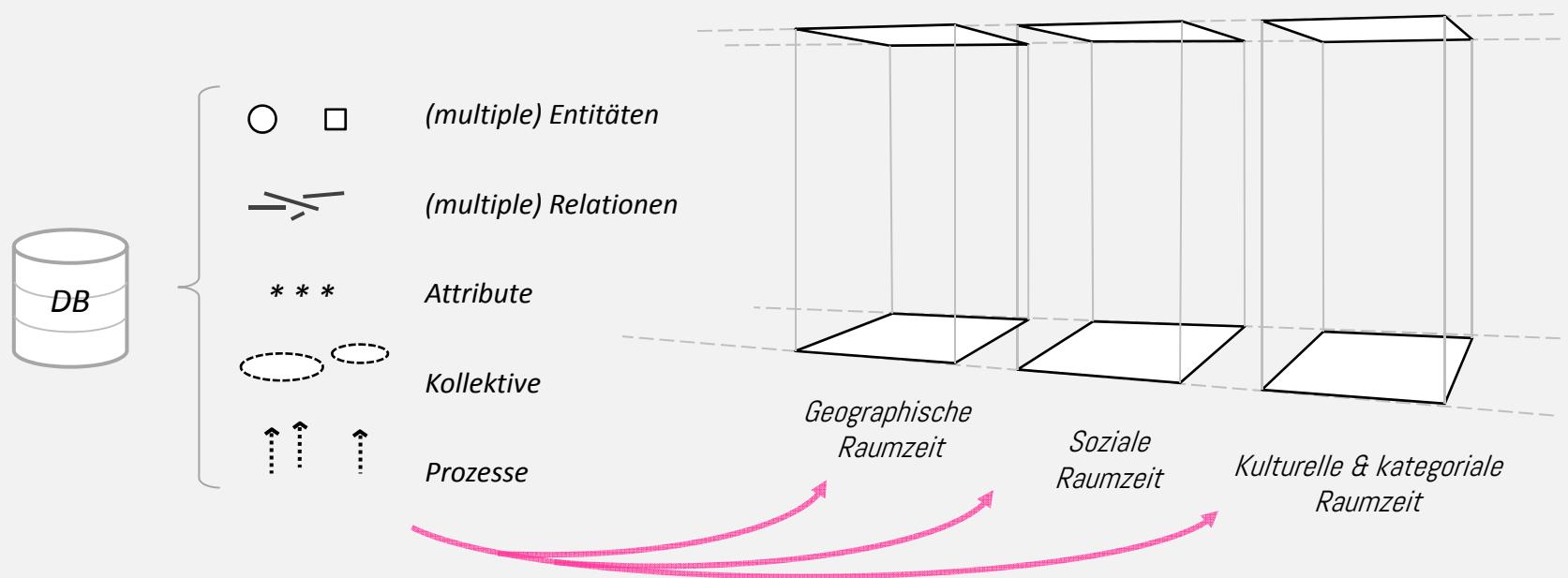
14469 Potsdam

{glinka, meier, doerk}@fh-potsdam.de

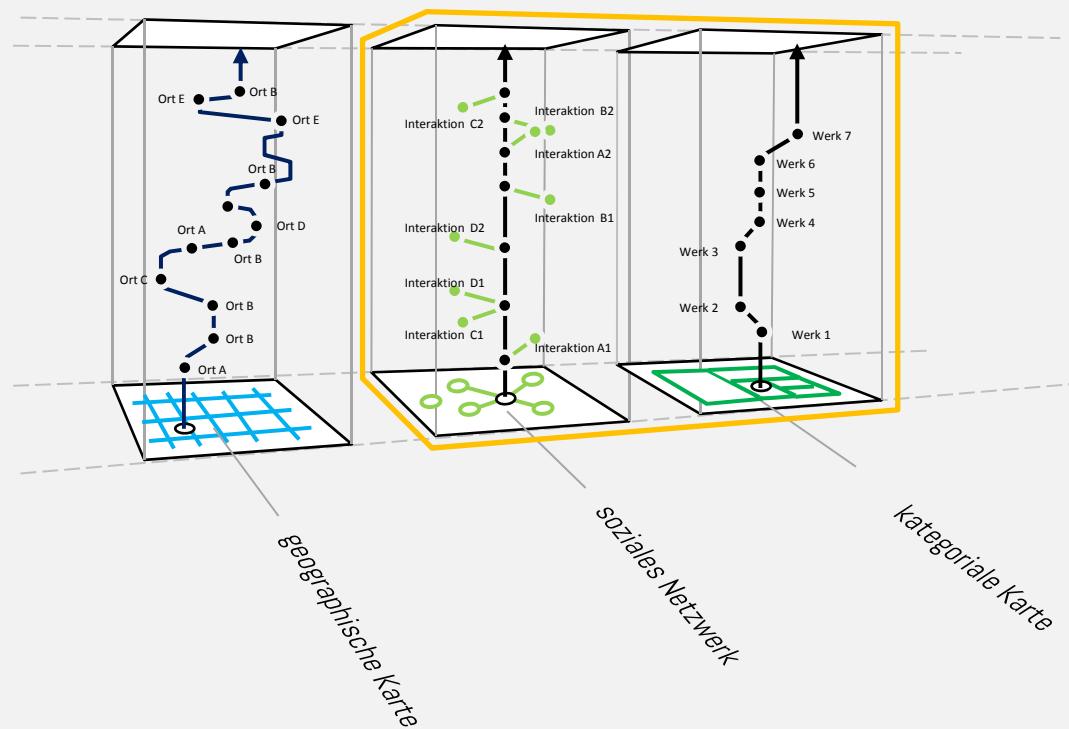
Abstract

In recent years, access to cultural heritage has been closely connected to digitisation. We argue the case for recognising this digital shift as an opportunity to create interfaces to cultural heritage that are, first of all, more inviting to the public. Secondly, we want to encourage critical approaches towards the representation of cultural production and the ways in which it can reflect and challenge our society.

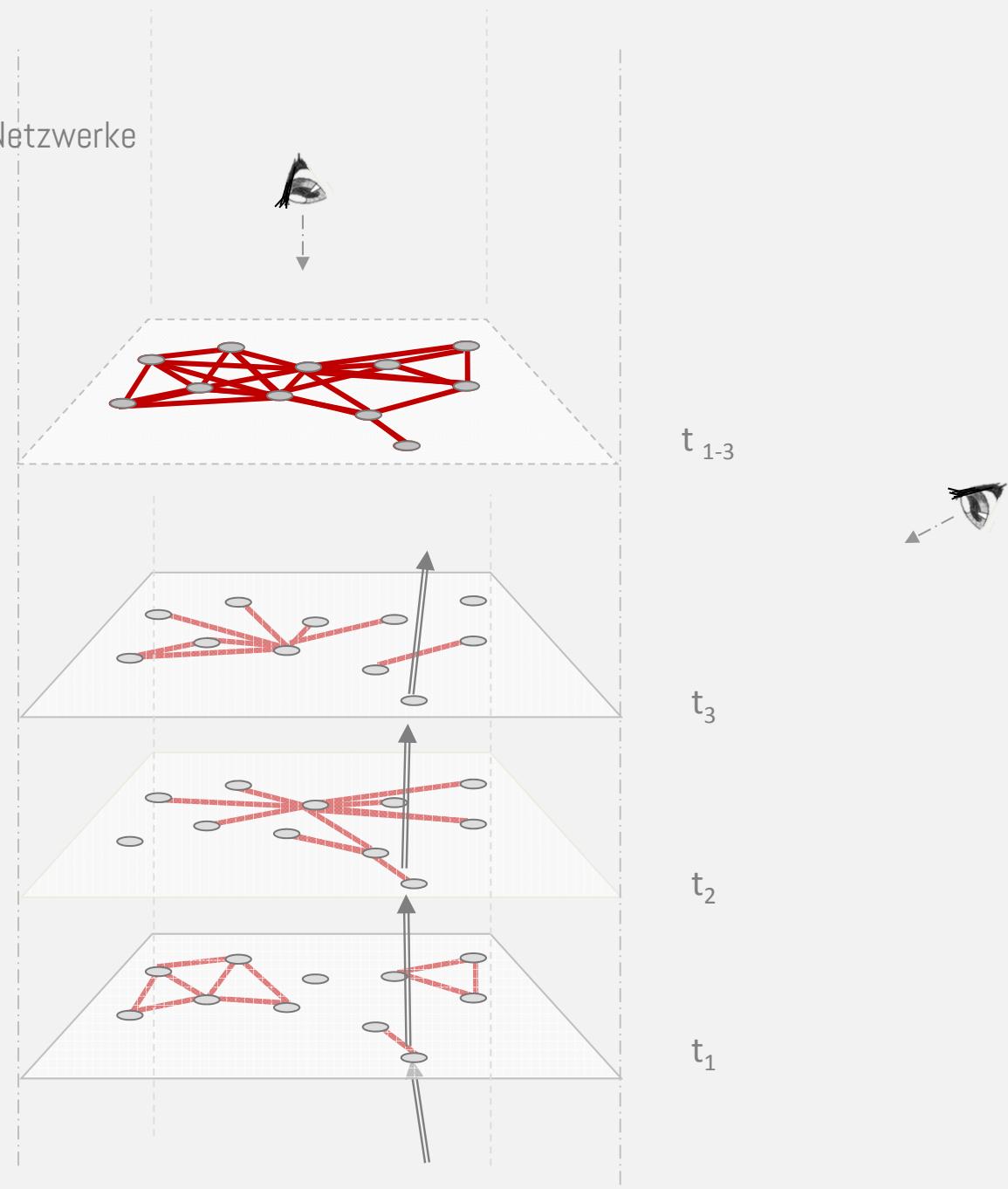
iii) Analytische Trennung von multiplen Raumzeiten



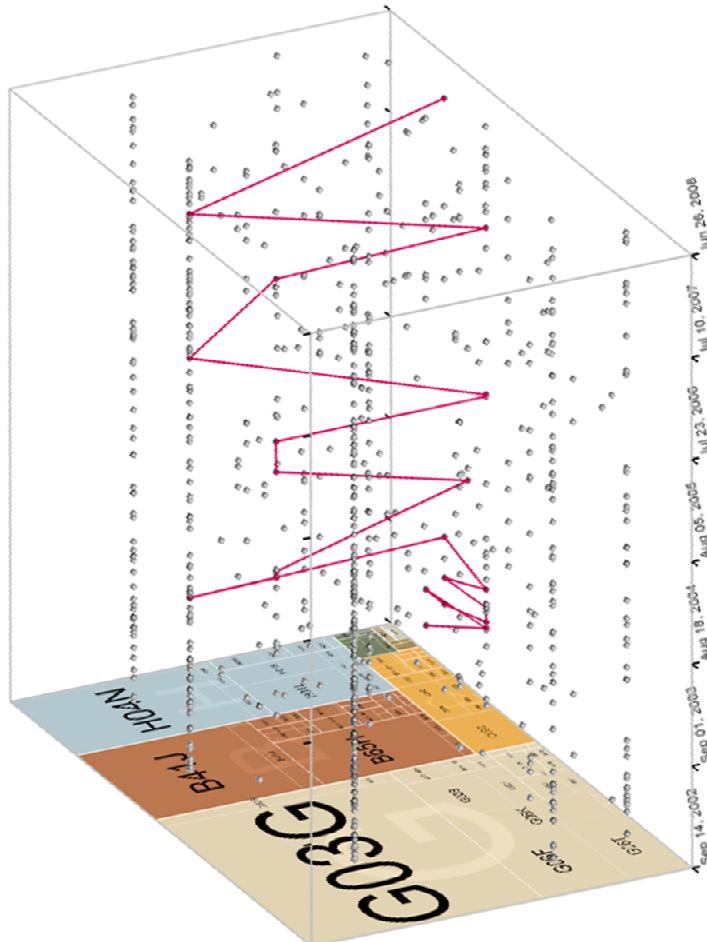
Visualisierung der Bewegungsprofile historischer Individuen durch multiple Raumzeiten



Segmentierung dynamischer Netzwerke



Visualisierung von individueller Dynamik in variabler kategorialer Raumzeit



cf. expand project: www.donau-uni.ac.at/en/expand

Neue Möglichkeiten

- des multimodalen "cognition support" in Seminar & Klassenräumen
- der visuellen historiographische Analyse & Synthese ("*theoria*")
- des kognitiv kohärenten close & distant readings / viewings

Kontakt: florian.windhager@donau-uni.ac.at