Networking Historical Knowledge in Digital Age: Constructing Data Infrastructure and Knowledge Bases for Historical Practices

Jun Ogawa

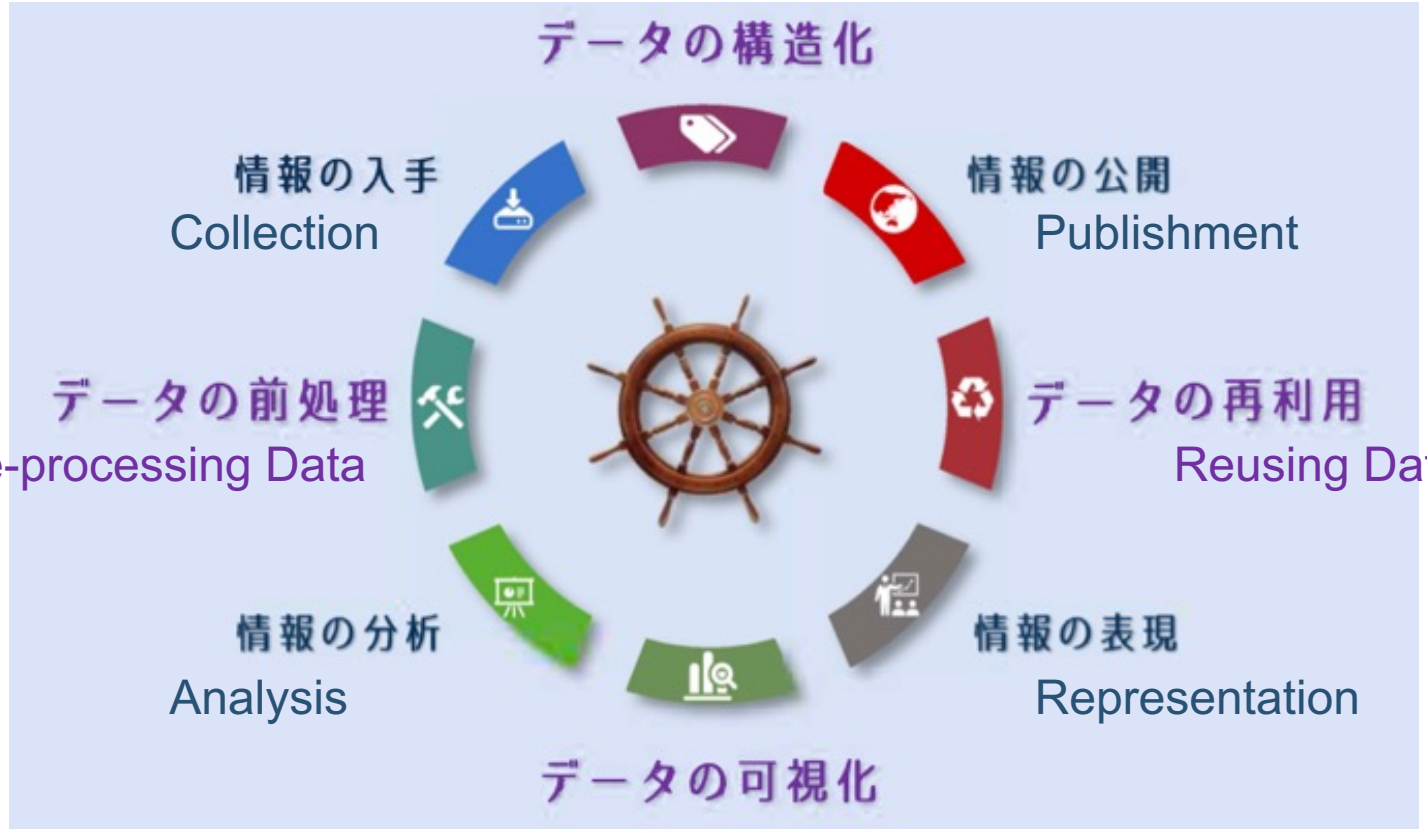
ROIS-DS Center for Open Data in the Humanities

How to Do Digital History?

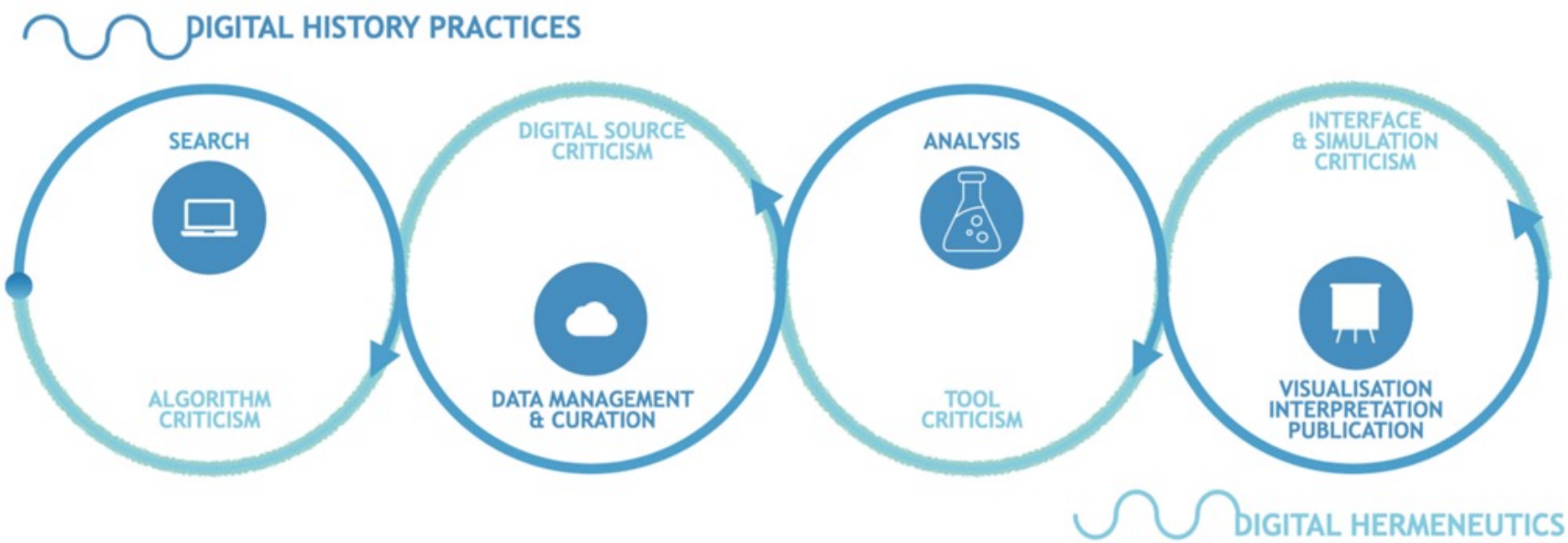
Goto (2019)

DISCOVERY **ANALYSIS** **VISUALIZATION**

ToDH (Tokyo Digital History)



C²DH
Fickers et al. (2022)



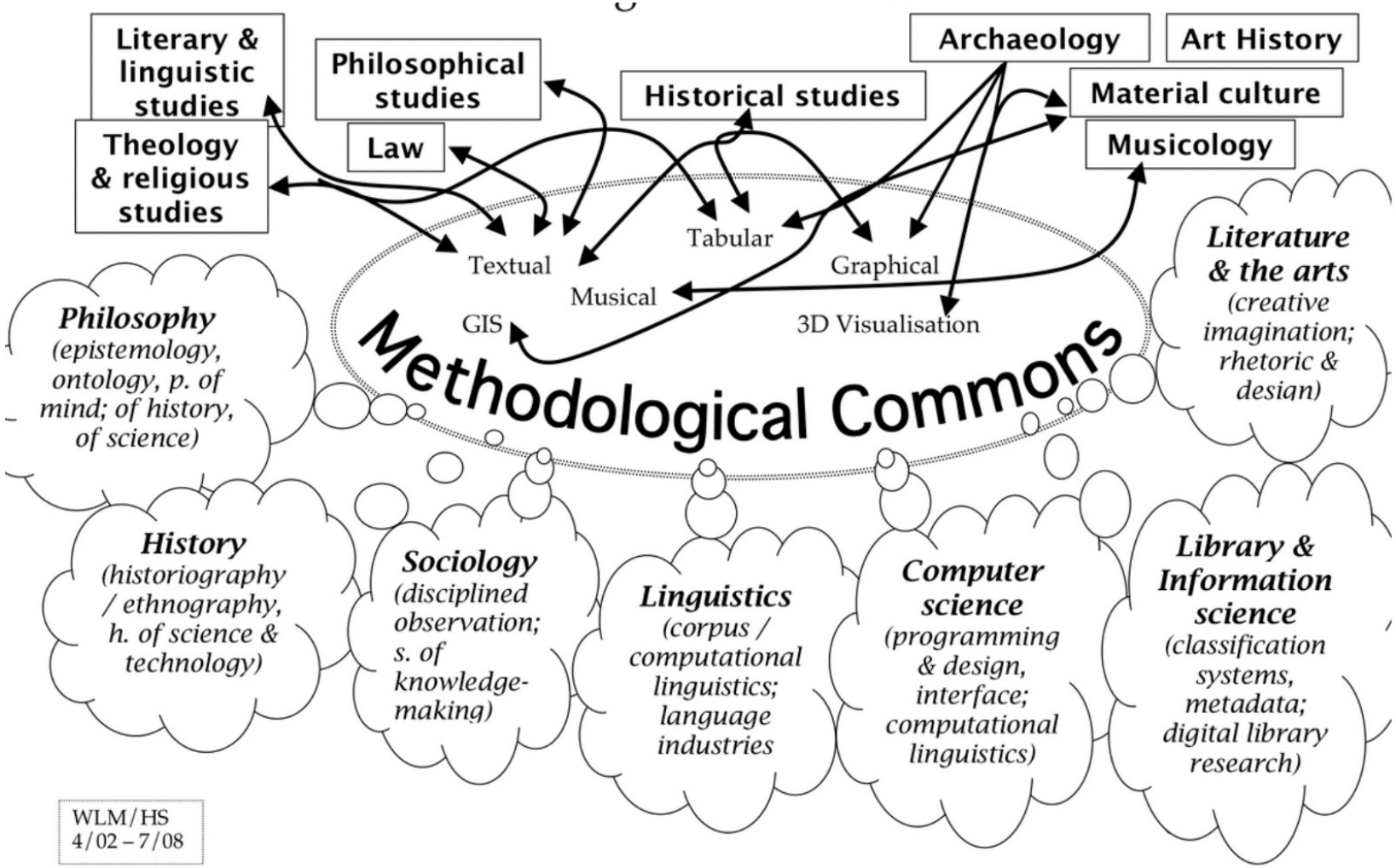
Today, we focus on...

Data

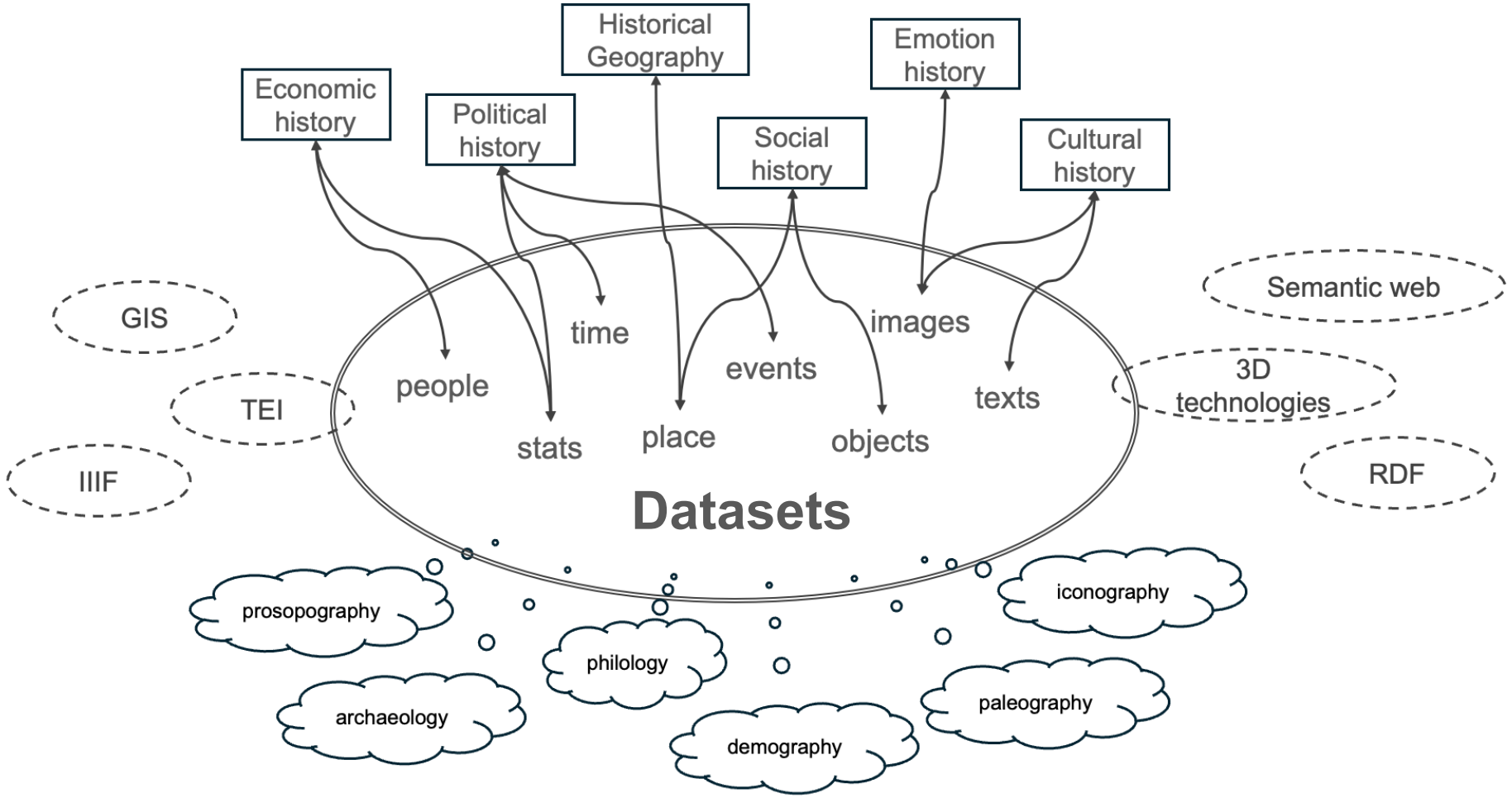
in digital history

Structured as machine readable

Sharable



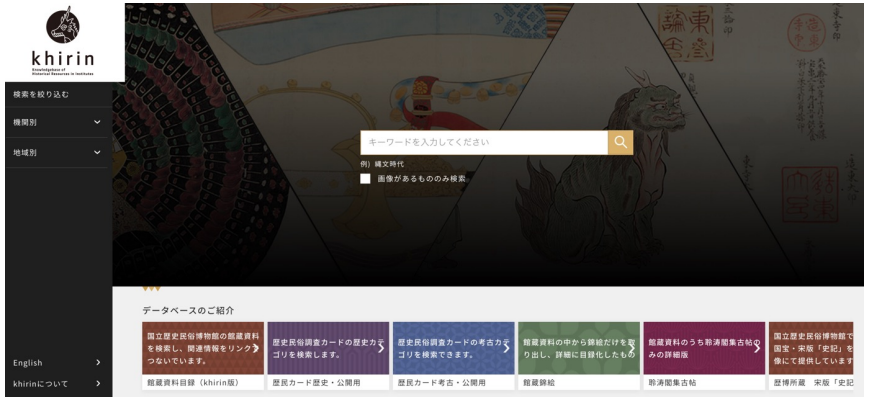
Methodological Commons



Conceptualization of ‘data commons’ in digital history

Practices in Japan

Sources / Materials



Khirin

JAPAN SEARCH

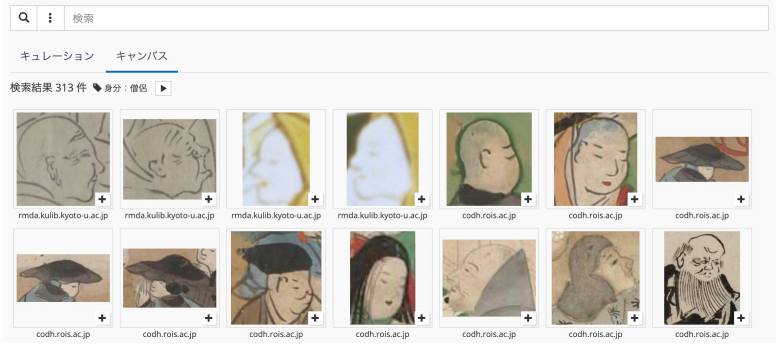
NDL Digital Collections

Text

Minna de Honkoku

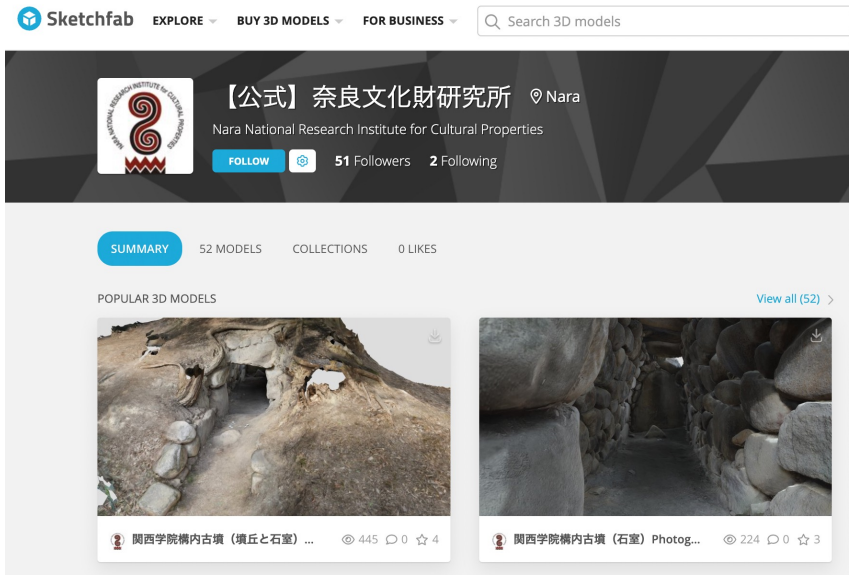
miwo

Image



‘**Micro Contents**’ in the humanities

3D objects



Sketchfab collections
(Nara National Research institute for Cultural Properties)

Place Names

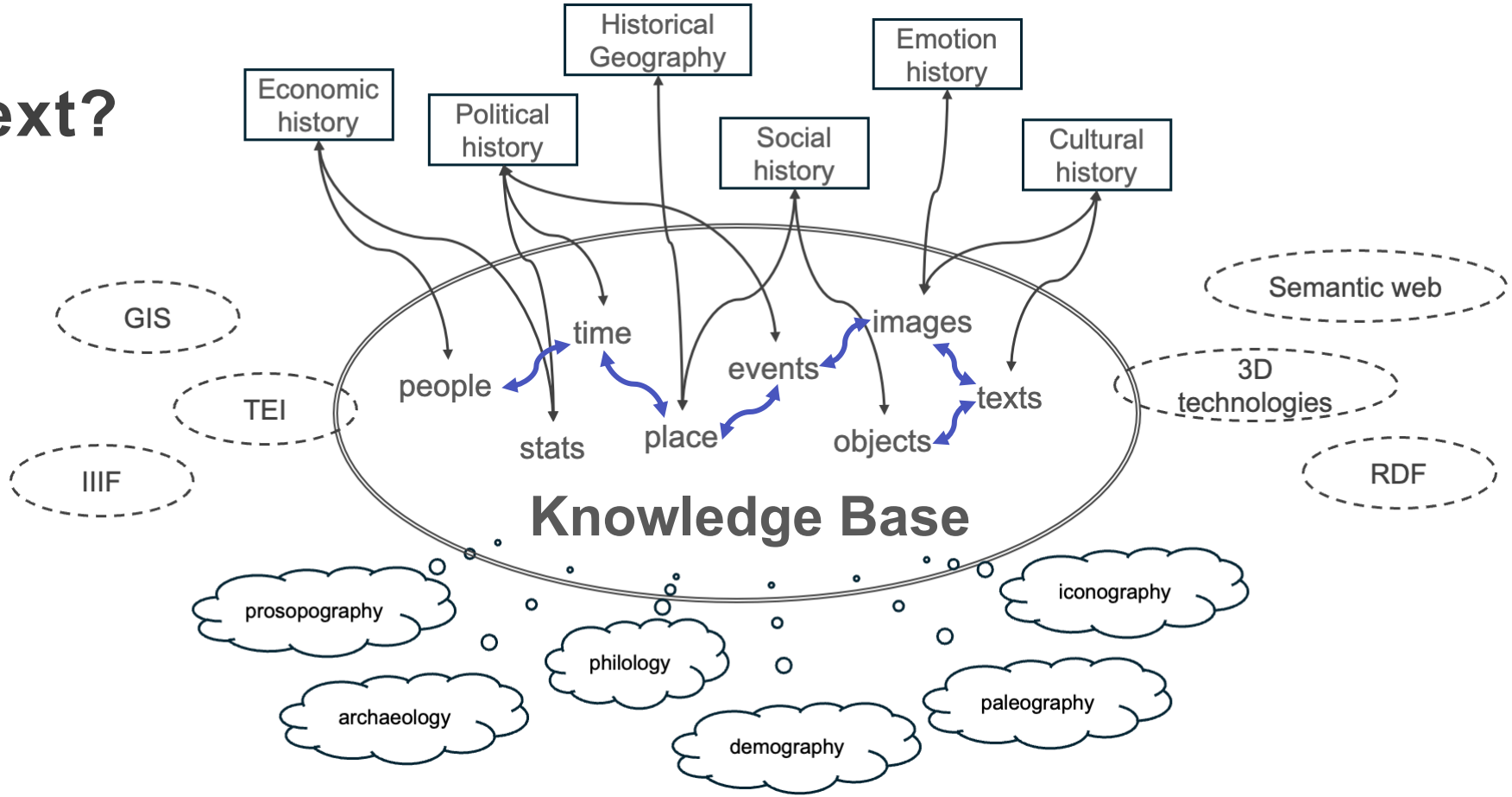
GeoLOD

Database of Historical Cities and Towns

Time

HuTime

What's next?



Conceptualization of 'knowledge base' in digital history

Knowledge base

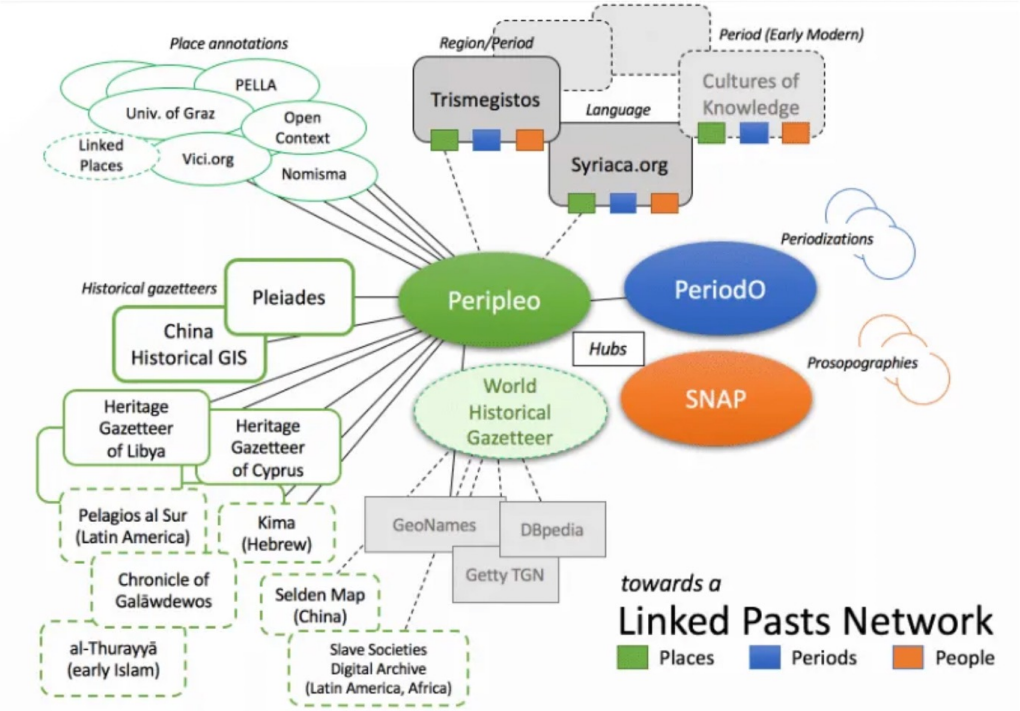
A network of semantically interconnected data based on the knowledge and interpretation of primary or secondary sources

Connecting existing data

Karl Grossner, *first published December 2017*

Pelagios Network

Linked Pasts

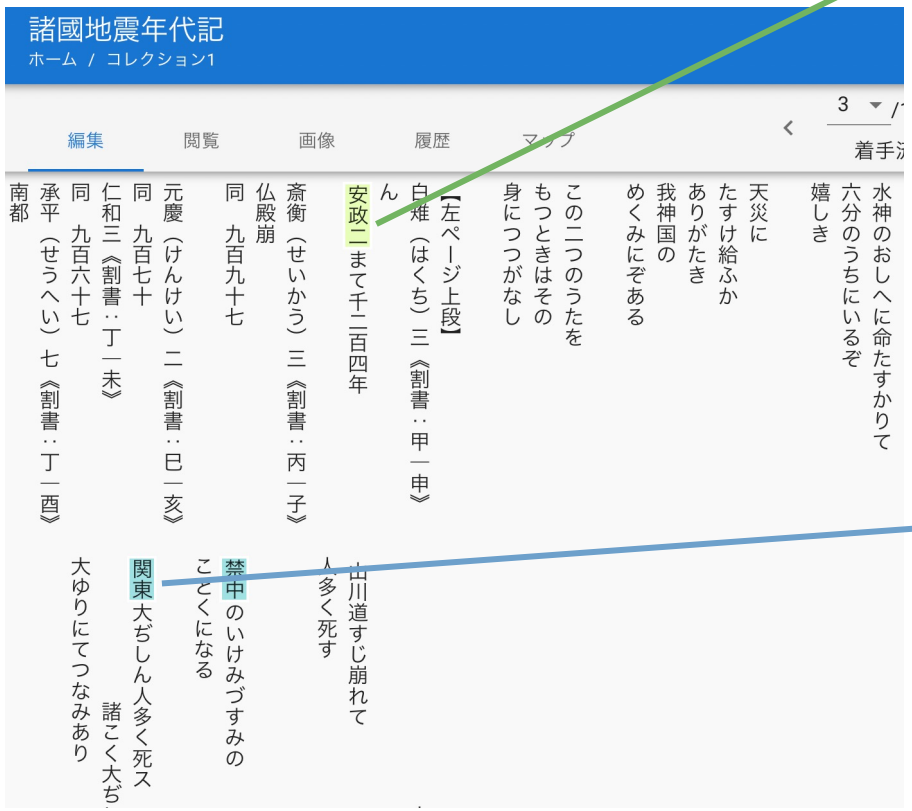


Partial view of the emerging Linked Pasts Network; many nodes omitted due to space constraint

Grossner and Hill (2016)

プロジェクトのミッション

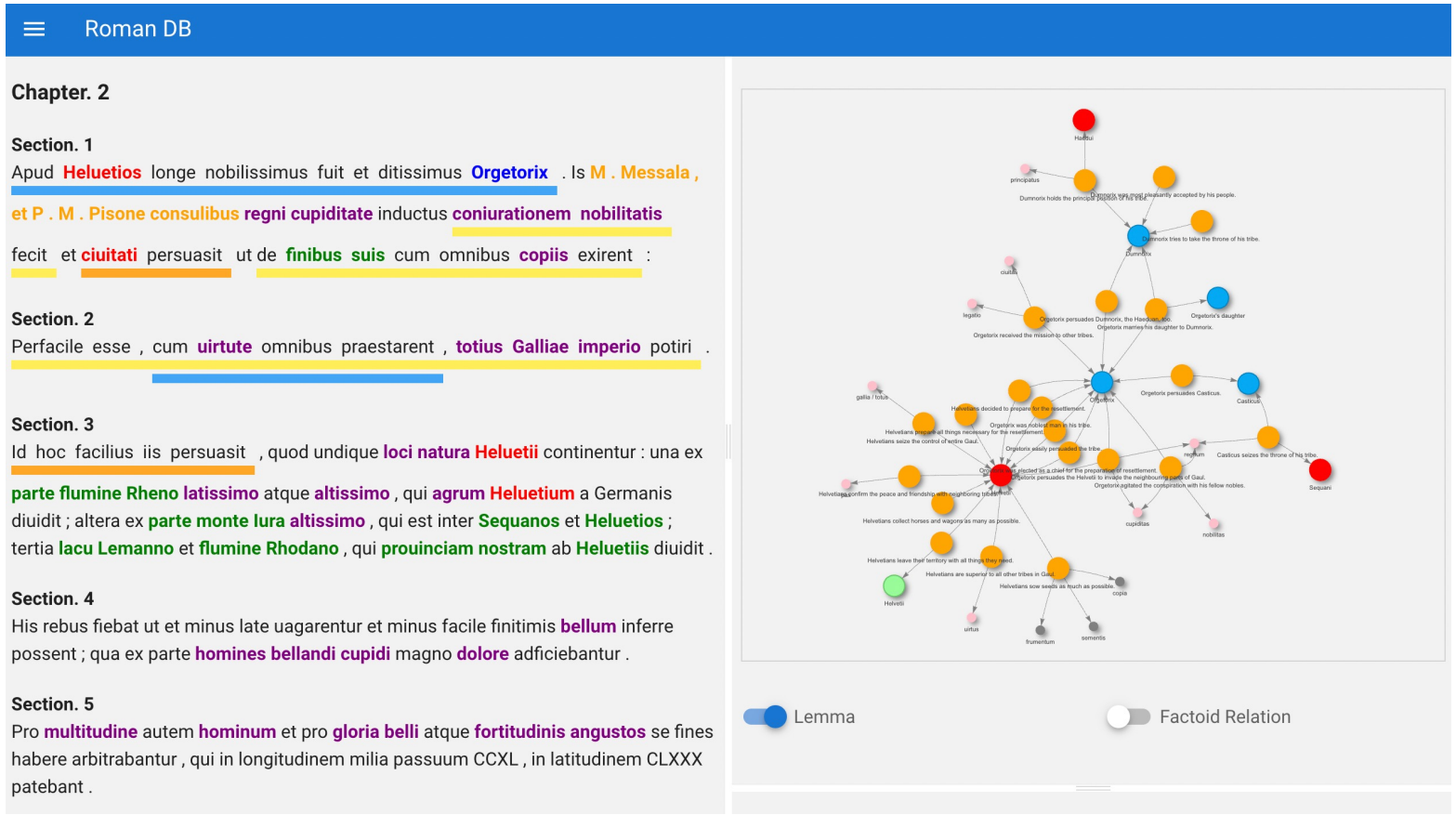
In case of primary sources



Minna De Chusyaku (みんなで注釈)

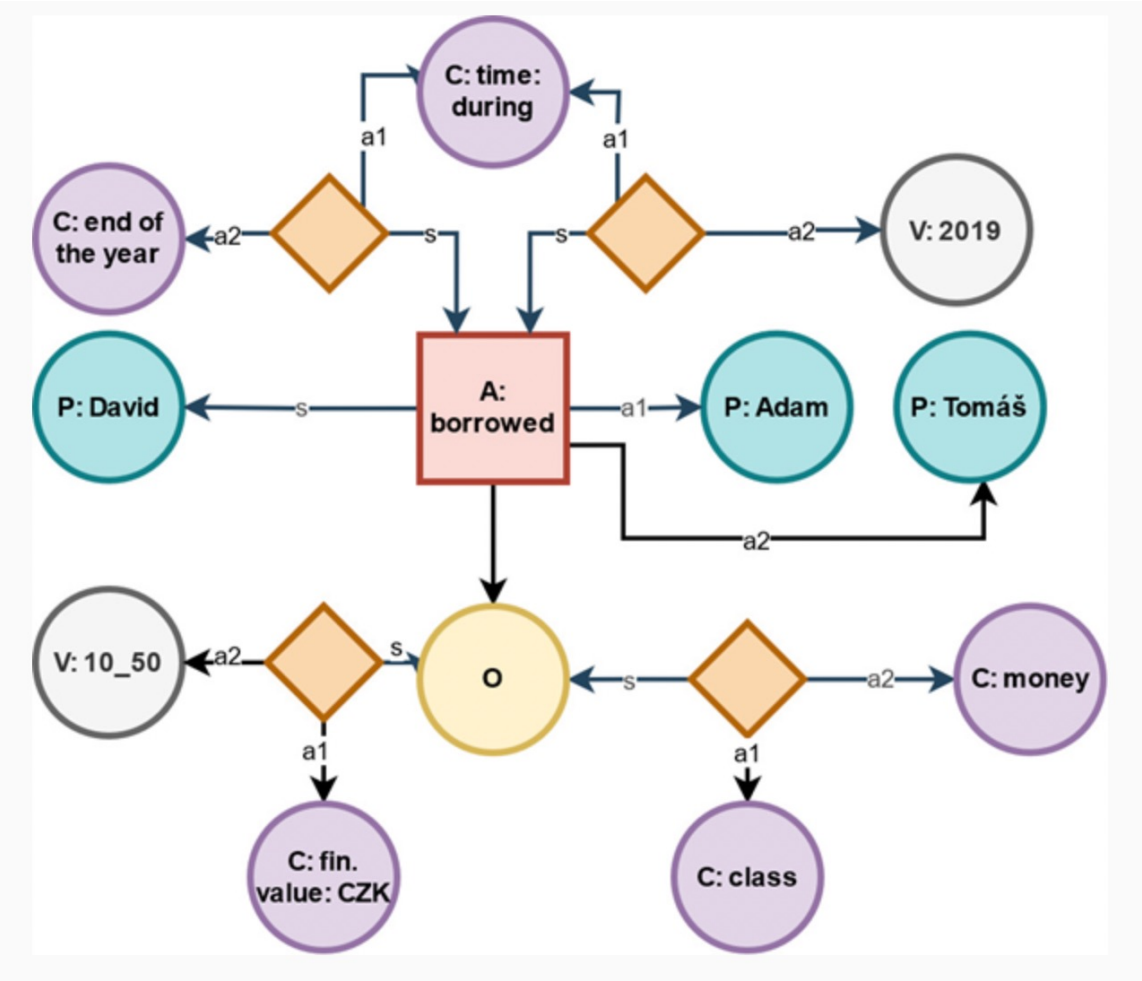
HuTime

GeoLOD



HIMIKO Project

Representation of the semantic contents as a knowledge graph



Dissident Data Model

Dissident Networks Project

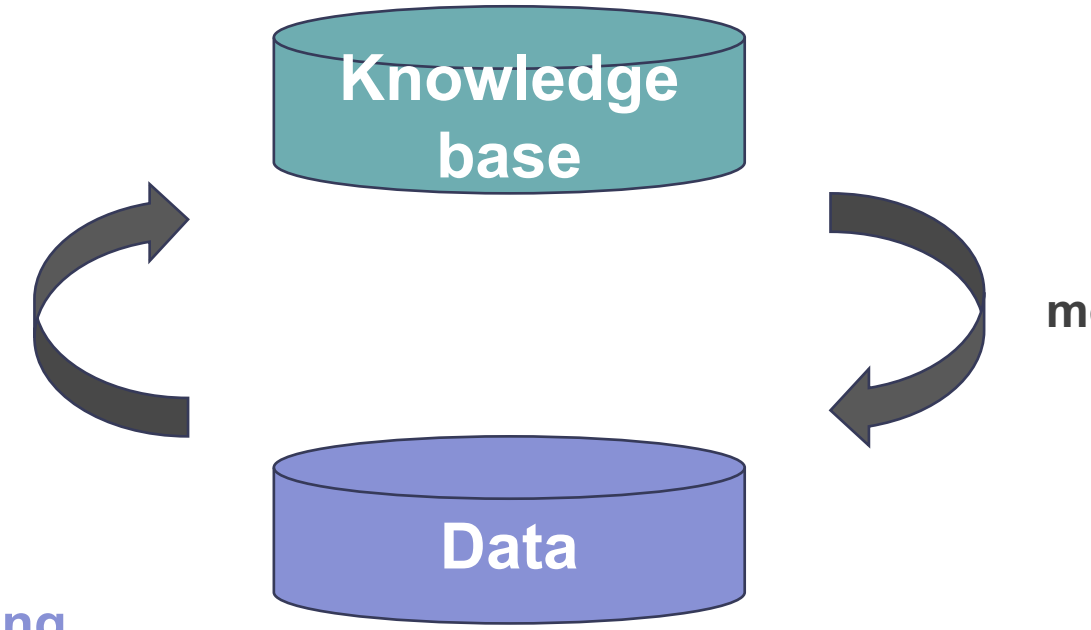
D. Zbíral et al. (2021)

Challenge

annotation/linking tools

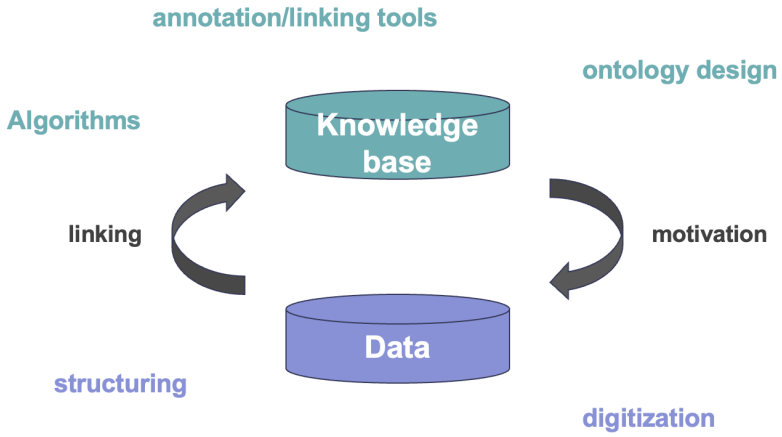
ontology design

Algorithms



structuring

digitization



ANALYSIS

VISUALIZATION

Thank you for listening!

References

- Fickers, A., J. Tatarinov and T. van der Heijden (2022), 'An Introduction,' in A. Fickers and J. Tatarinov (eds.), *Digital History and Hermeneutics: Between Theory and Practice*, Routledge, pp. 1-19.
- Goto, M. (2019), 'Digital Humanities and Historiography,' in M. Goto and Y. Hashimoto (eds.), Textbook for Digital History, Bungaku-Report, pp. 11-22.
- Grossner, K. and T. Hill (eds.) (2017), 'From Linking Places to a Linked Pasts Network,' http://kgeographer.com/pubs/LinkedPastsNetwork_7Dec.pdf.
- Zbíral, D., R. L. J. Shaw, T. Hampejs, and A. Mertel (2021), 'Model the source first! Towards source modelling and source criticism 2.0,' Zenodo. https://doi.org/10.5281/zenodo.5218926.