Co-creation of a thesaurus at the interface of cultural lexicography & cultural infrastructures:

the case-study topothek.at & exploreAT!

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Galway, Ireland

Background

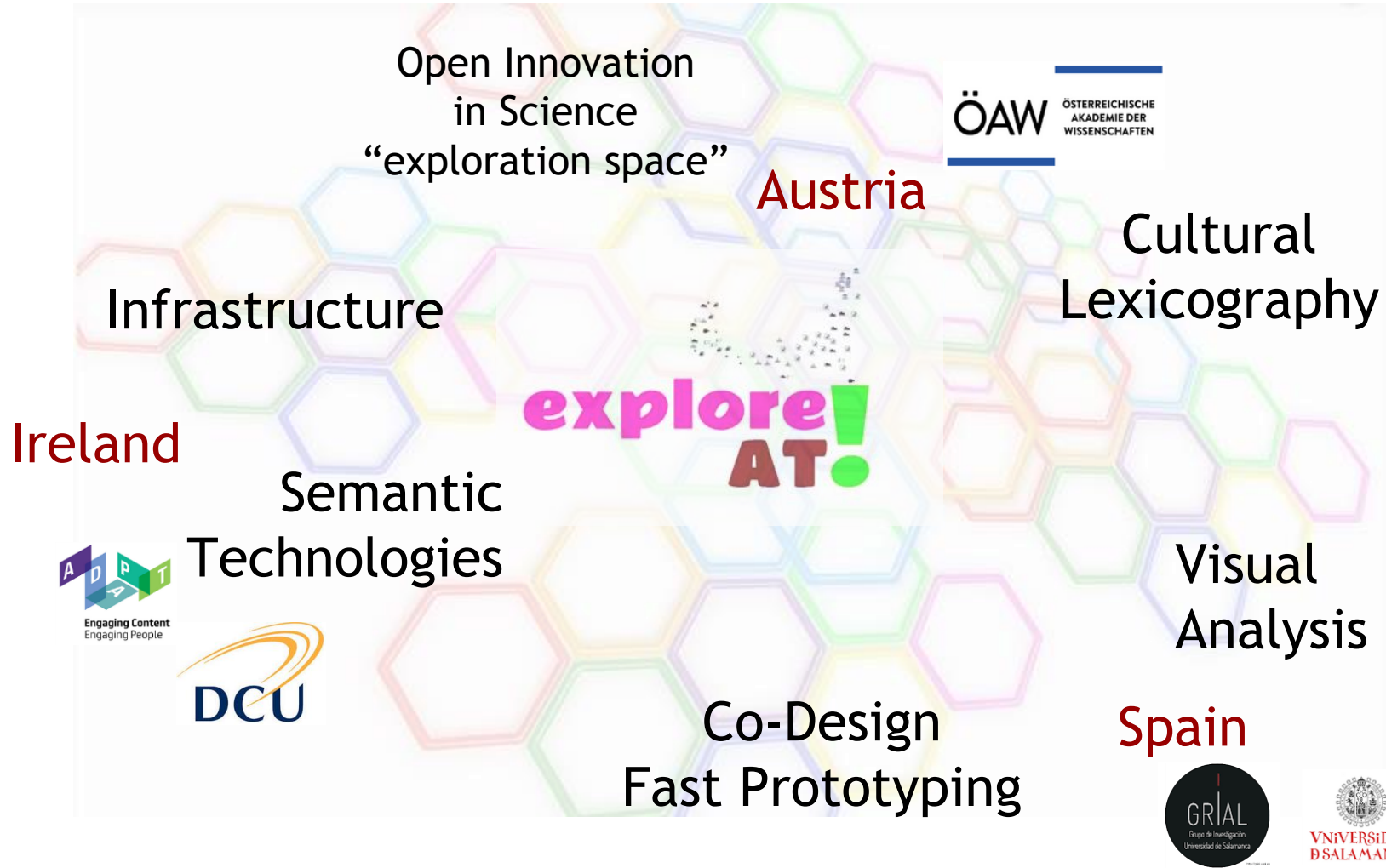- **Data in Digital Humanities**

  increasingly complex

  → use of several digital tools & methods

  → increased need for inclusion of societal actors and social relevance

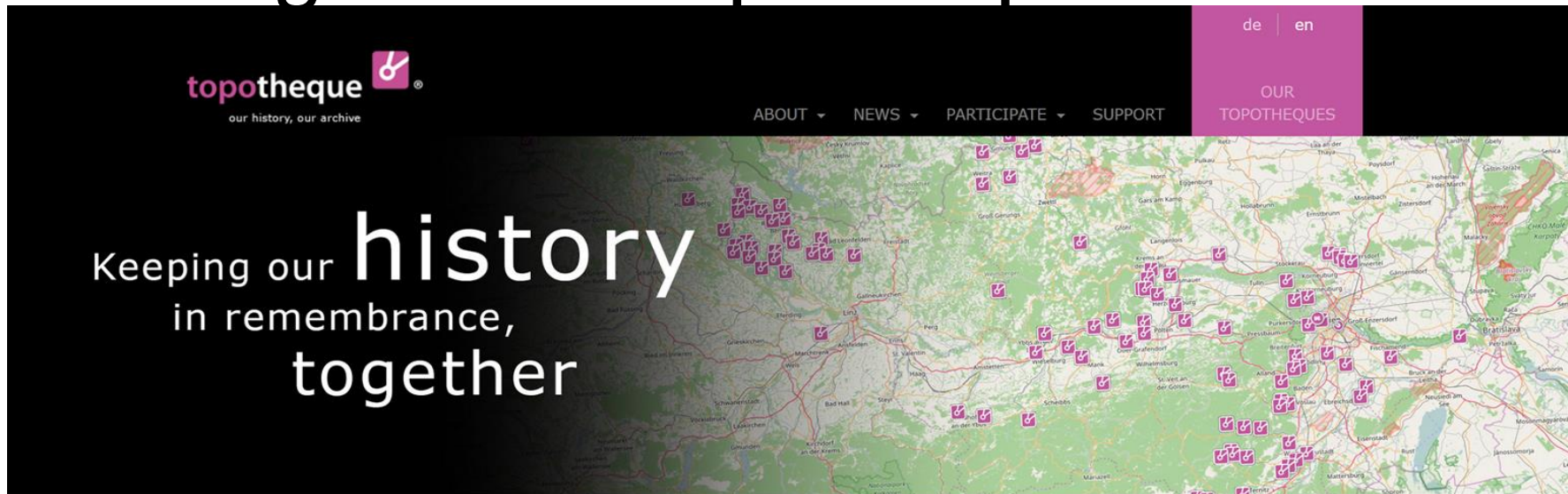 → introduction of collaboration exploreAT! & Topothek (AT)

Background: exploreAT!

Open Innovation in Science "exploration space"

Austria

Cultural Lexicography

Infrastructure

Ireland

Semantic Technologies

Visual Analysis

Co-Design Fast Prototyping

Spain

Cultural Topic

- Overarching topic: Food cultures

  → Diverse data properties
  e.g. data complexity, connection possibilities for
  scientific disciplines, community groups, industry, etc.

  → Food as a service, product and emotion
  as a basis for new complex research questions
  and scenarios

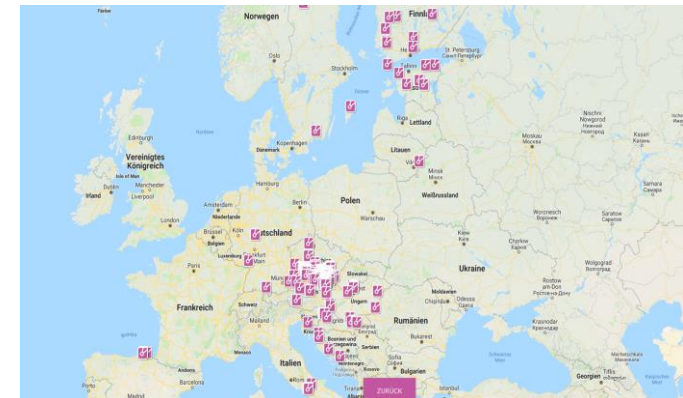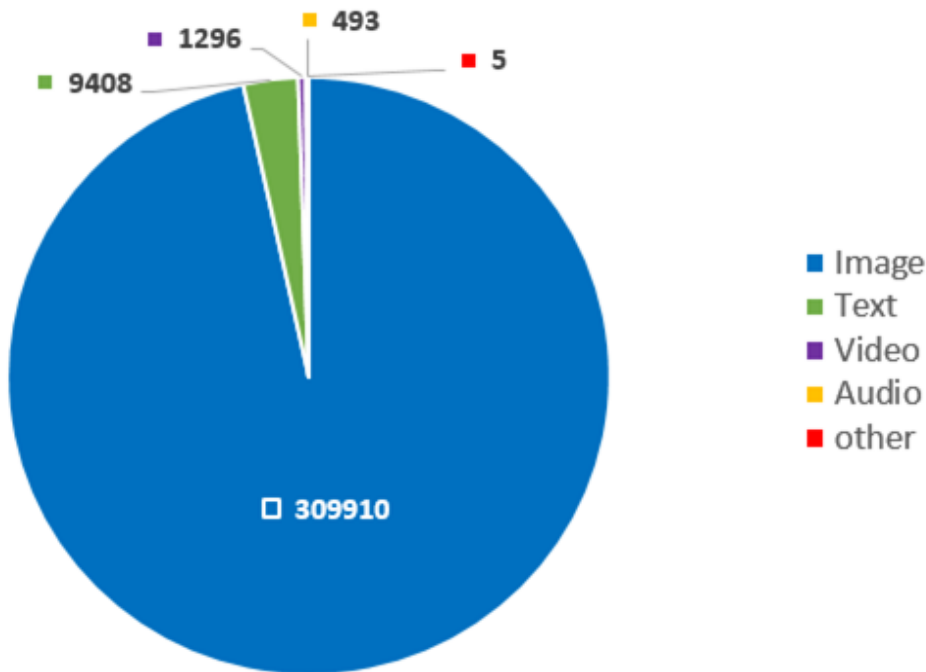# Background: Topotheque

- Completely citizen driven archive
- Focusing on the history of municipalities
- ~300,000 items
  - Photographs
  - Documents
  - Video and audio files
- ~280 Topothek "librarians" (+digital users)

Digital Objects: Topotheque (AT)

Total number of object types in topothek.at

493
1296
9408
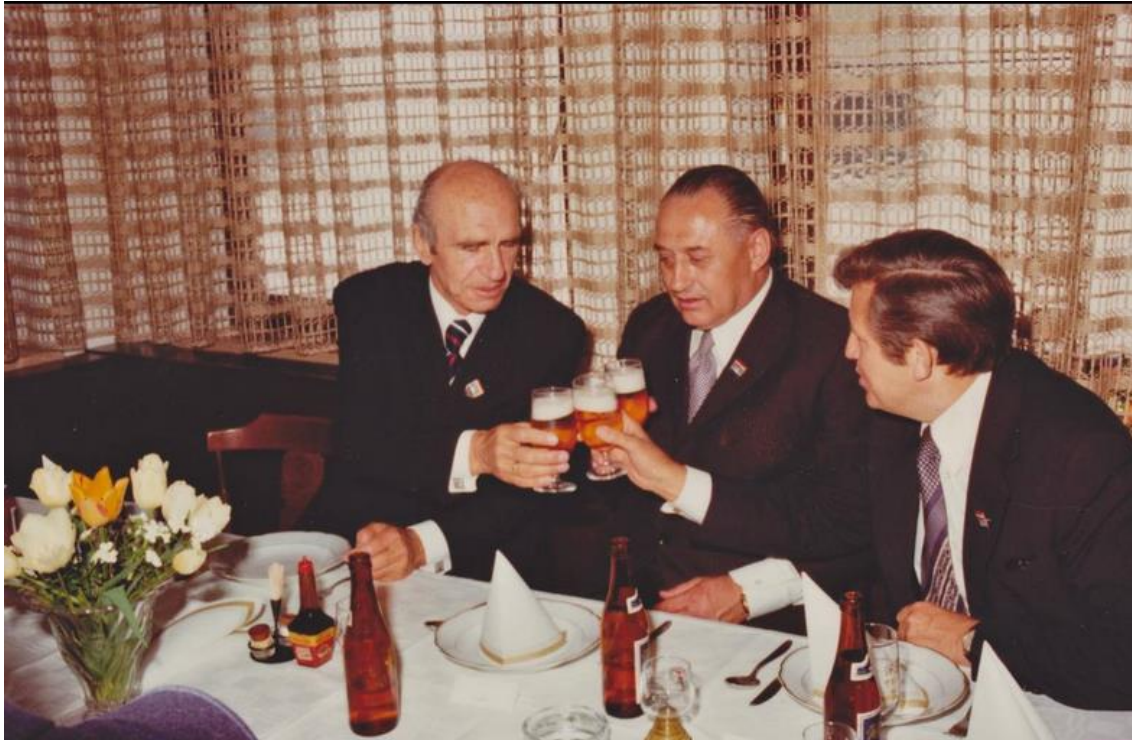5
■ Image
■ Text
■ Video
■ Audio
■ other

309910

- +300.000 digital objects: images, texts, audio, video, etc

- overall majority: images

  → Images as bearers of regional historical relevant personal memories

Background: Topotheque

Topotheque: Tagging

Picture source: Topothek Wieselburg © Stadtarchiv, Foto-Dufek-1437/25A, Sedlmayr Gerti

Object tags
objects, buildings

Social tags
persons

Context tags
events, festivities

Topotheque: Tagging

Name — Stadterhebung

Datum — Mai 1976

Kommentar — Nach anstrengenden Festreden, ein kühles Wieselburger Spezi im Gh. Hinterdorfer.

Tags — Bier, Bundespräsident Rudolf Kirchschläger, Bürgermeister Leopold Sedlmayr, Gh. Hinterdorfer, Hauptplatz, LH Siegfried Ludwig, Markt, Stadterhebung, Wieselburger Spezi

ID — 0311992

Urheber — Stadtarchiv, Foto-Dufek-1437/25A

Besitzer — Sedlmayr Gerti

Medium — Foto

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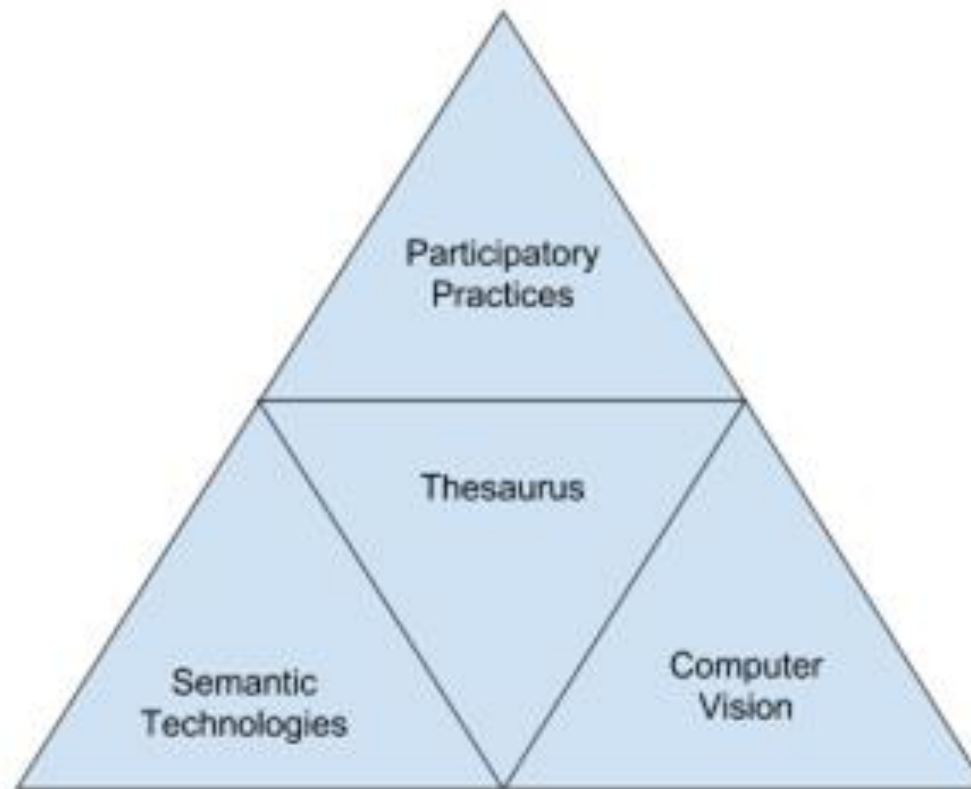
Object tags
objects, buildings

Social tags
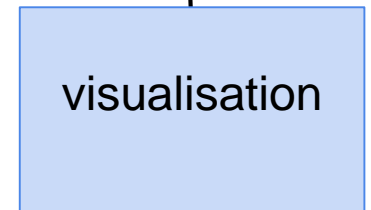persons

Context tags
events, festivities

Picture source: Topothek Wieselburg © Stadtarchiv, Foto-Dufek-1437/25A, Sedlmayr Gerti

Co-design: threefold approach:

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Co-Creation Process

WS   WS   WS

Topothek archive data

Computer Vision

DB

Thesaurus

case-study

cultural analysis

visualisation
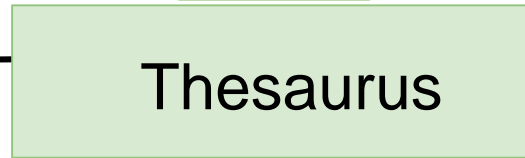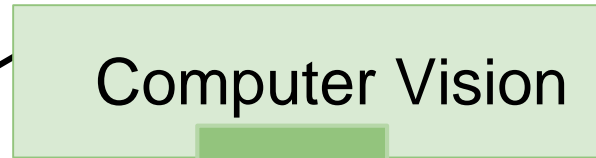
Scenario Analysis

Topothek@exploreAT!

Co-Creation Process

Citizen Infrastructure Scenario

→ sourcing of actor group needs
(problem sourcing)

→ co-design workflow

→ definition of actor roles according to research
questions & citizen interests

→ iterative tests of prototypes, feedback &
evaluation

Toposaurus

- Thesaurus: hierarchical conceptual organisation of keywords
  → grouping & searching of similar objects

Tags
Bier, Bundespräsident Rudolf Kirchschläger, Bürgermeister Leopold Sedlmayr, Gh. Hinterdorfer, Hauptplatz, LH Siegfried Ludwig, Markt, Stadterhebung, Wieselburger

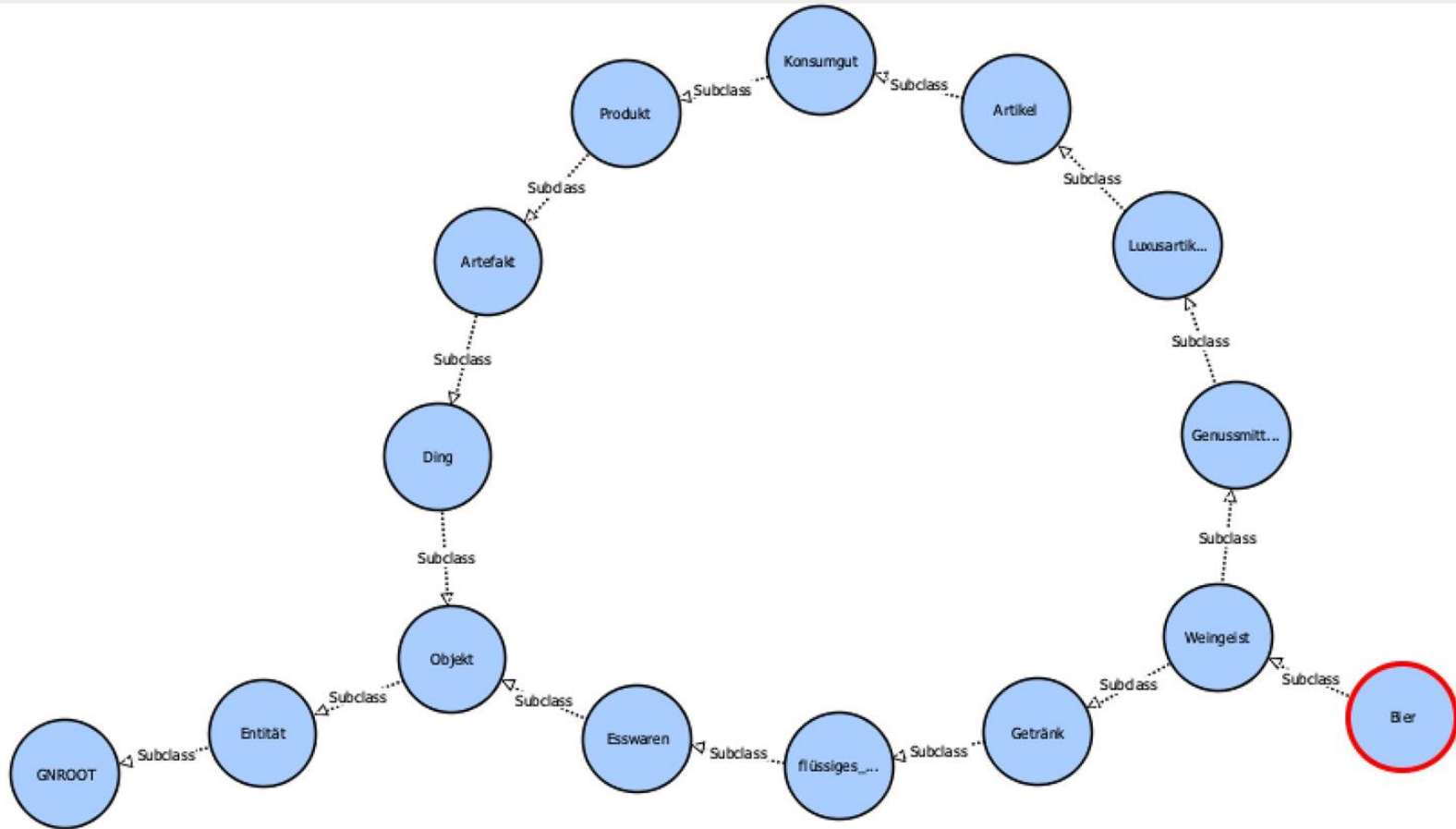Spezi

'Bier:Weingeist:Getränk:flüssiges Nahrungsmittel:Esswaren:Objekt:Entität:GNROOT'

'Bier:Weingeist:Genussmittel:Luxusartikel:Artikel:Konsumgut:Produkt:Artefakt:Ding:Objekt:Entität:GNROOT'

Picture source: Topothek Wieselburg © Stadtarchiv, Foto-Dufek-1437/25A, Sedlmayr Gerti

Toposaurus

Outlook & Next steps

- improve disambiguation of concepts (manual & machine-generated)

- interface for optimised thesaurus usage

- use of existing know-how & networks, tools & data for developing the knowledge partnership

- connection to other actor groups in the OI-RI @ exploration space

Thank you
for your attention!

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#explorations4u

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