



## WE MAKE OPENNESS WORK (SO YOU DON'T HAVE TO):

Bridging Open Science and Higher Education with the ZOERR in times of AI

### RAISE AWARENESS

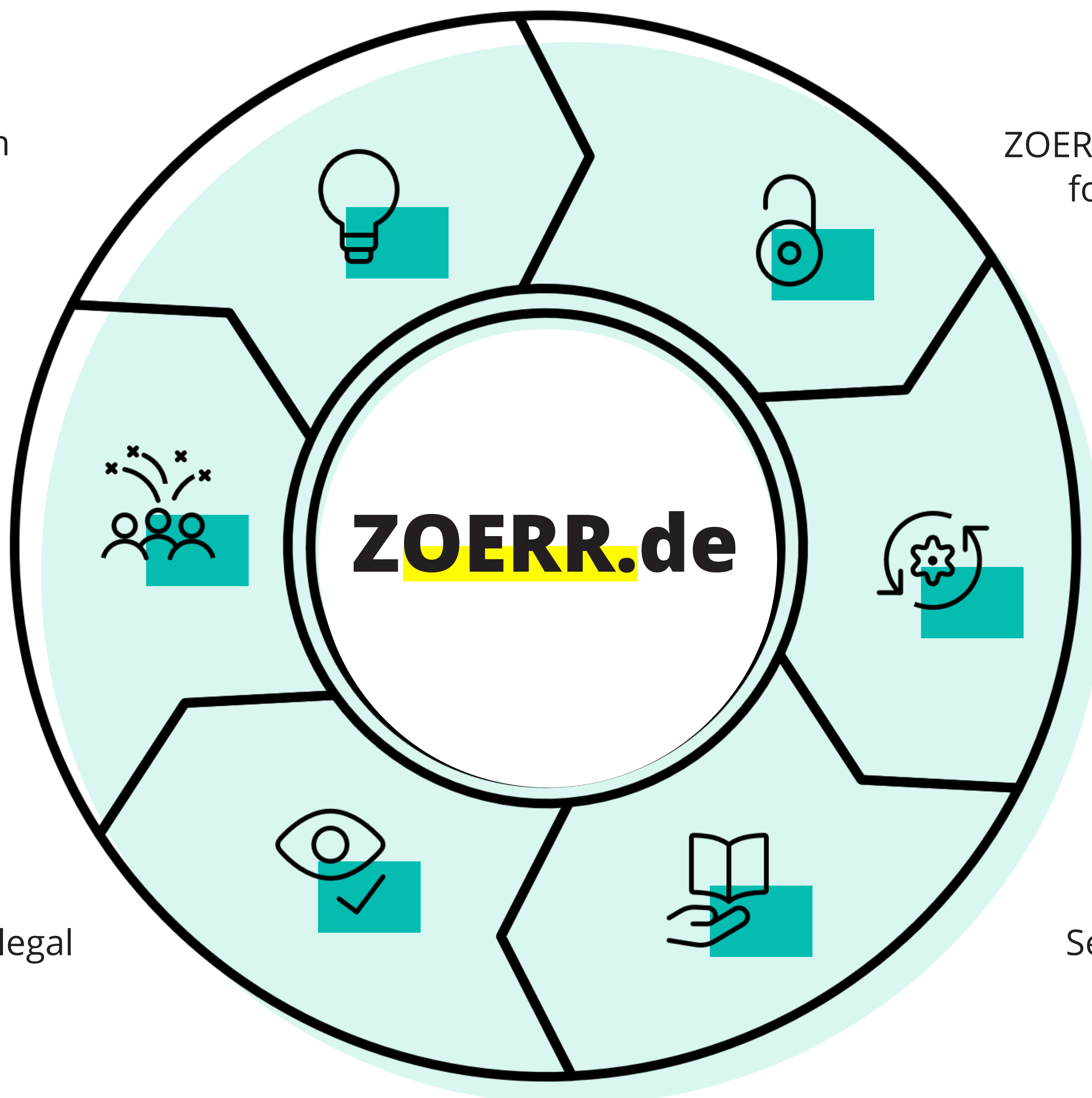
ZOERR highlights issues with commercial AI in OER.

### ENGAGE COMMUNITY

ZOERR fosters networking and addresses emerging topics.

### ENSURE QUALITY

ZOERR maintains technical, legal and didactic standards.



### PUBLISH OER

ZOERR provides infrastructure for open license materials.

### ADAPT OER

Materials are modified for context and target groups.

### SUPPORT OER/OEP

Services cover production, use and sustainability.

The **ZOERR** – the central open educational resources repository for institutions of higher education in the state of Baden-Württemberg - can be understood as a service provider for Open Science activities at universities.

**ZOERR** has created an infrastructure for publishing teaching and learning materials under an open license. These OER are explicitly modifiable and flexible in many respects. They can be dynamically adapted to the respective context and different target groups as well as current research results and teaching/learning concepts (e.g. project-based learning).

**ZOERR** is a service that covers several dimensions resulting from the high flexibility of OER. A portfolio of services has been developed to support the production, use and sustainability of OER.

The **ZOERR** actively ensures quality standards in matters of technical, legal, didactic and formal (including meta-data) requirements.

In addition to the pure provision tasks of a repository, the **ZOERR** portfolio includes consulting, production, quality assurance, public relations, networking, community building and engaging with emerging topics (like AI) in the OER universe. This puts **ZOERR** in a strong position to address the challenges posed by the tension between open science, OER and OEP on the one hand and commercial AI products on the other.

Today, OER producers often see no problem in producing open material with commercial AI tools. **ZOERR** is trying to raise awareness of the problems that arise from this paradox.

#### ZOERR AT THE UNIVERSITY LIBRARY OFFERS ON-SITE SERVICES FOR THE UNIVERSITY:

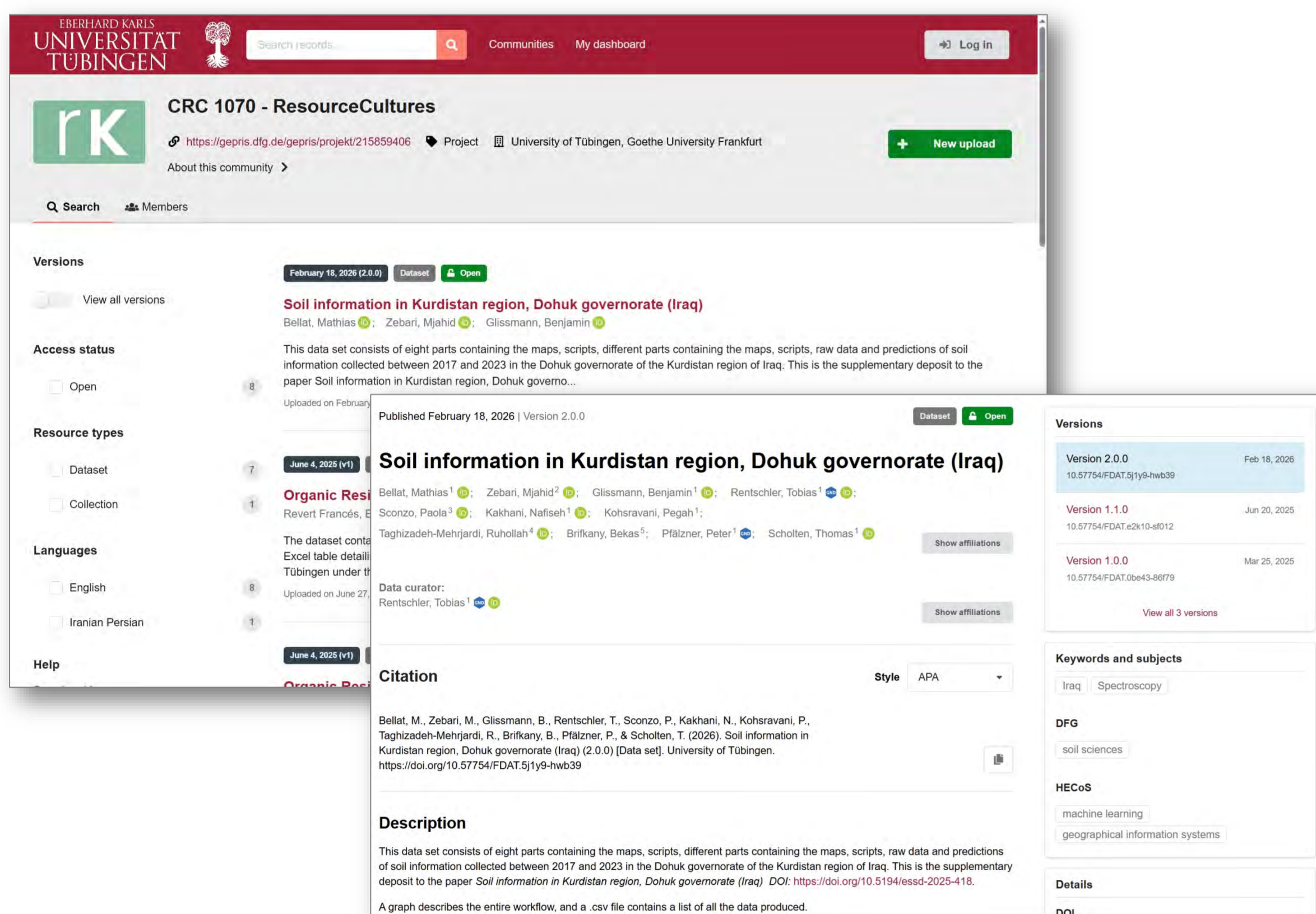
- All services of the OER repository
- AI consulting specifically for publication projects (not only OER)
- Practical support for OER production
- Advice on the use of CC licenses
- Open consultation hours for OER and OEP use-cases





# The Role of the University of Tübingen's Digital Humanities Center in Promoting Access, Sustainability, and Digital Competencies

Digital Humanities Center (DHC) is the university's core facility for the humanities and social sciences, supporting sustainable research practices through digital infrastructure, data stewardship, and training

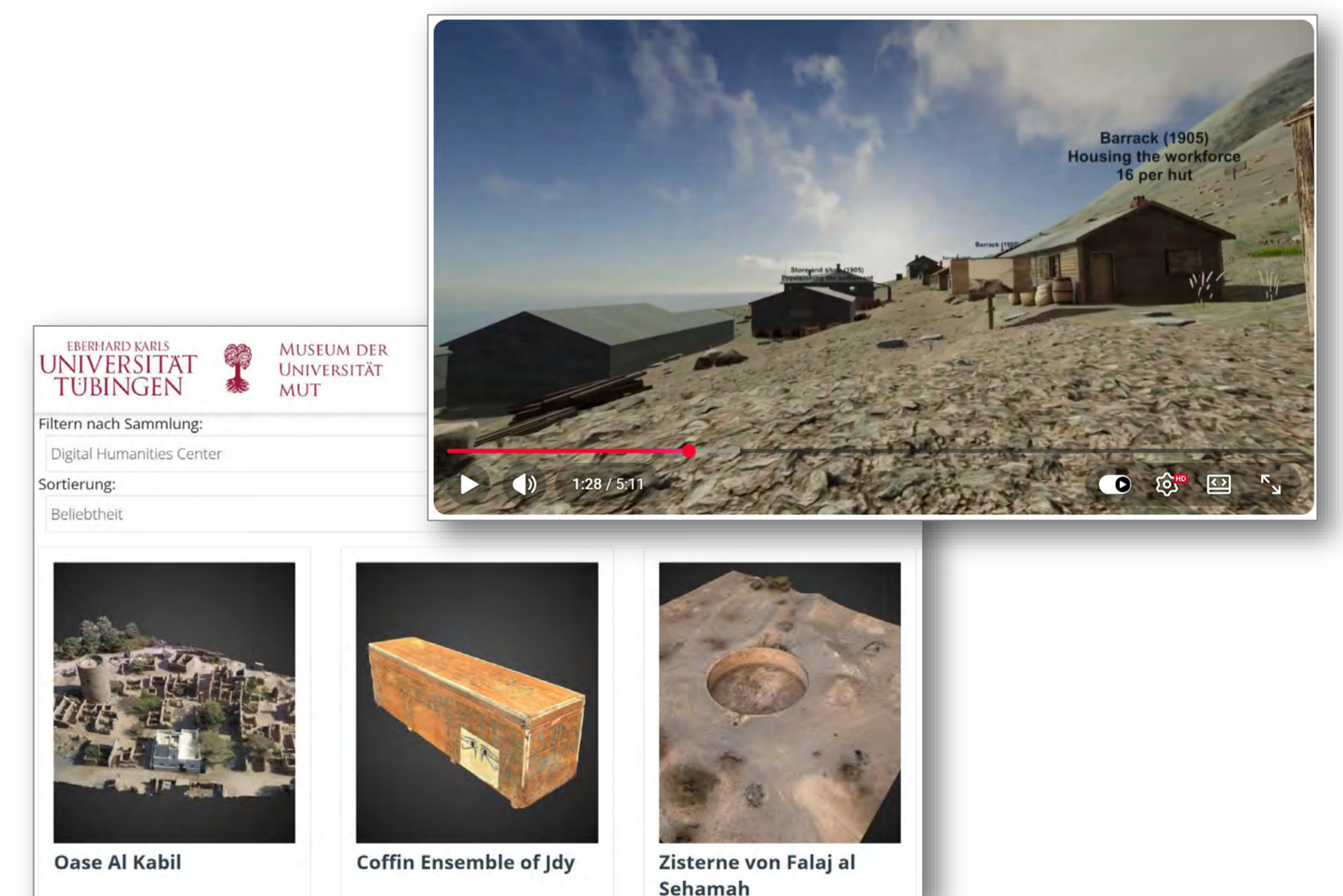


## Promoting FAIR Access to Research Data

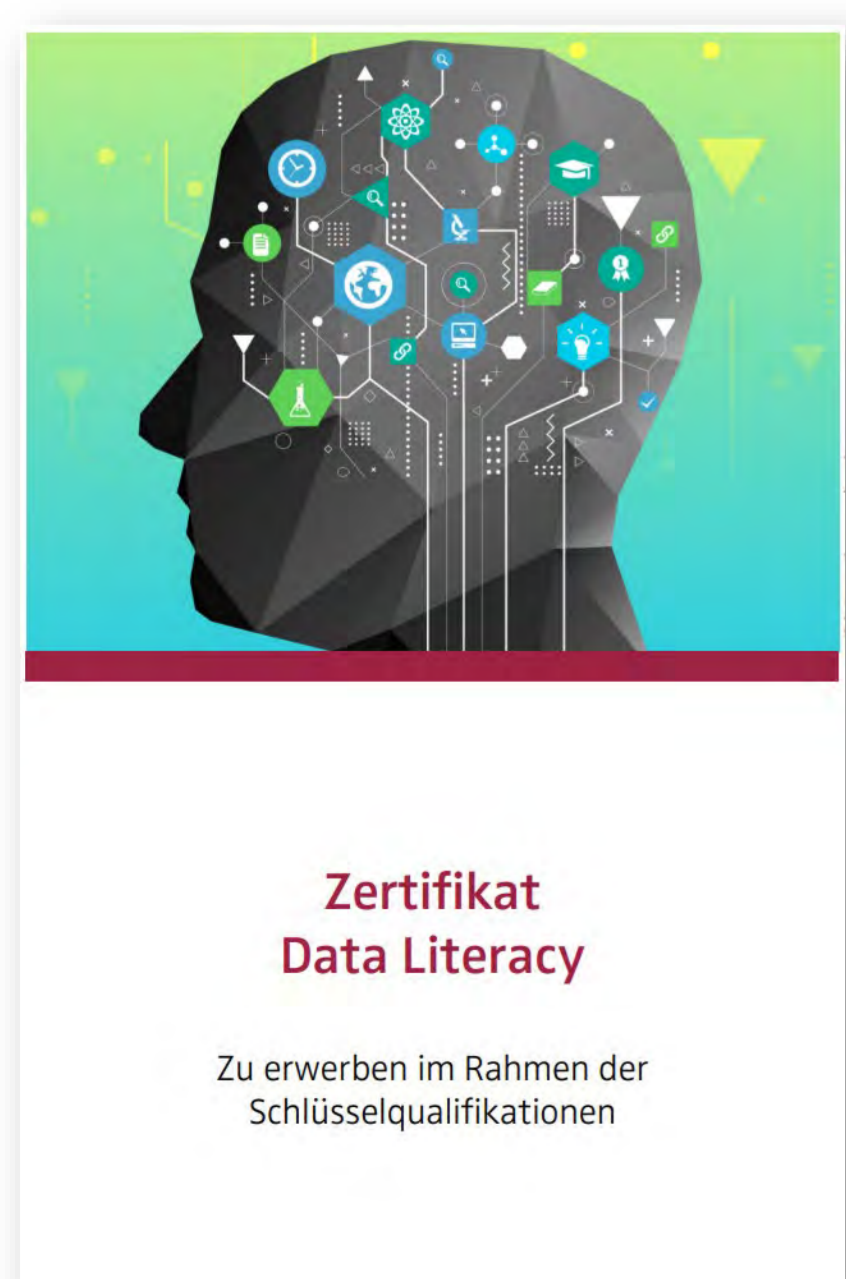
- Operating the institutional research data repository FDAT
- Ensuring findable, accessible, interoperable, and reusable (FAIR) data publication and **long-term preservation**
- Providing **expert data curation** throughout and beyond the research lifecycle
- Cultivating a culture of responsible **data stewardship** guiding management and ethical sharing of data

## Enhancing Access to Cultural Heritage and Museum Collections

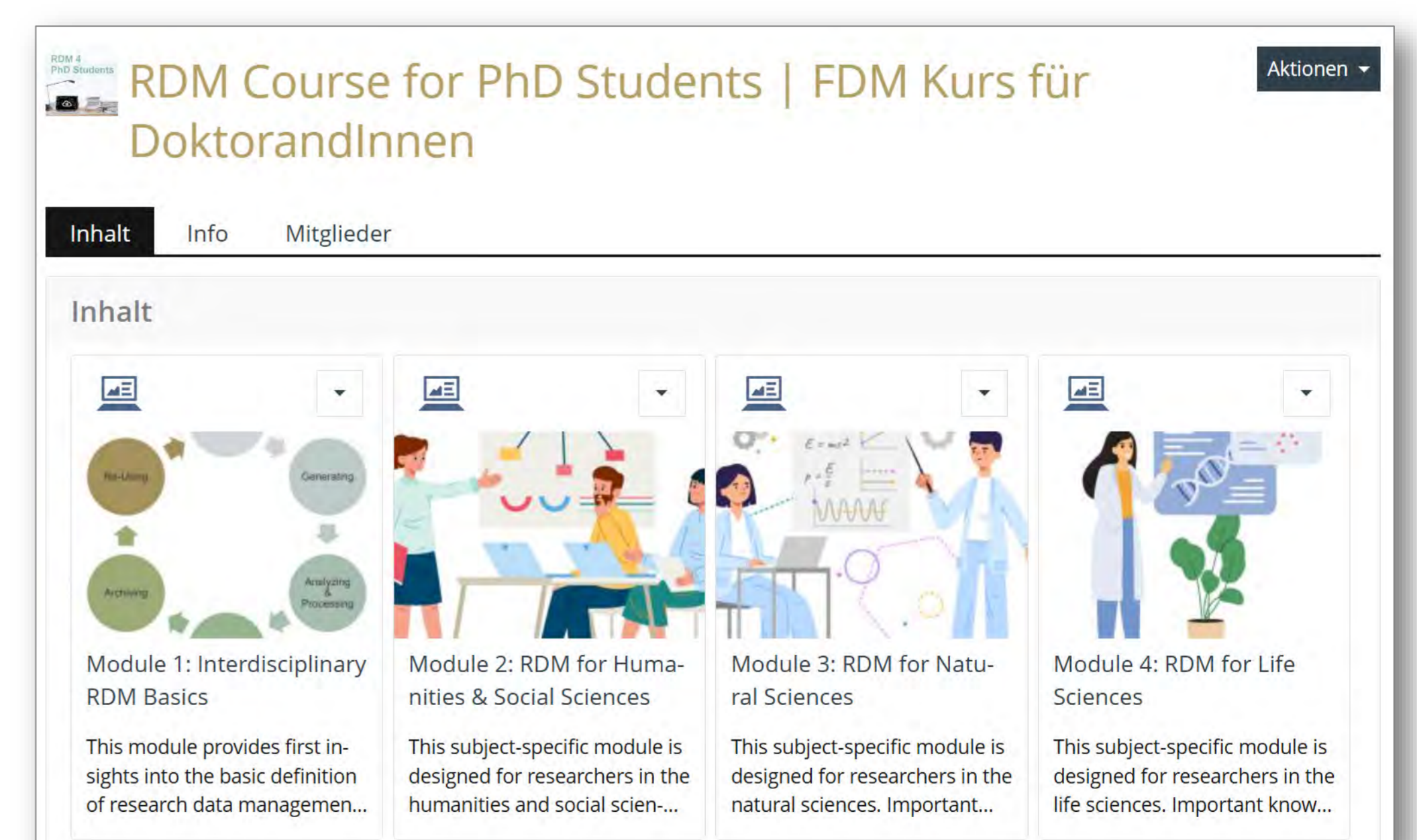
- Digitizing and providing **digital presentations** of museal objects and artifacts
- **3D** capturing, modeling, and replicating
- Building barrier-free, immersive **virtual worlds** for engagement and education
- Integrating digital narratives and context to enrich the **user experience**
- Expanding access to broaden reach and connect with diverse **new audiences**



## Fostering Resilience via Transdisciplinary Digital Competencies



- Building capacity for **digital change and innovation** in research
- Offering tailored opportunities for acquiring **digital competencies** for students, PhD researchers, postdocs, and professors
- Shaping the next generation of **organizational data culture** through training

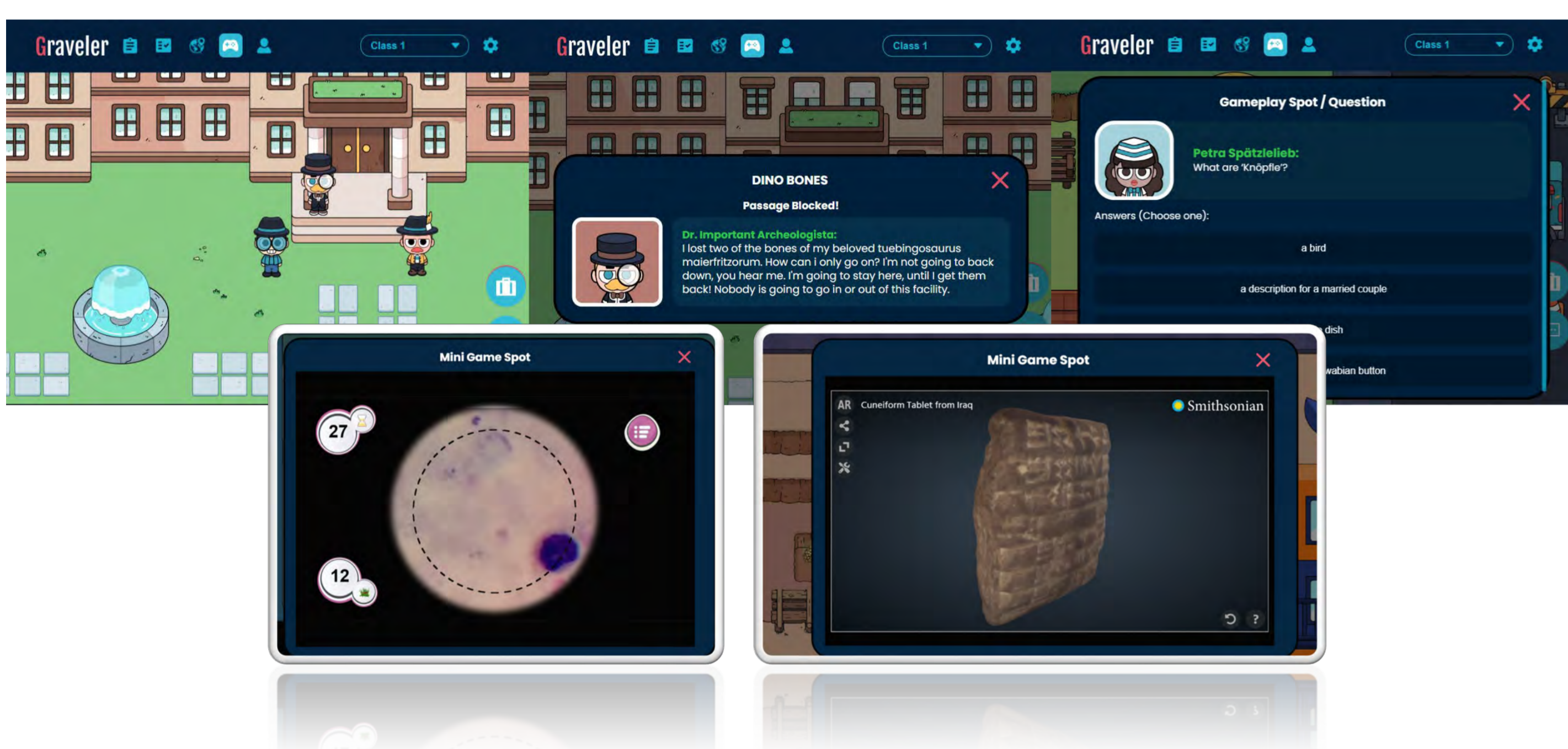




In response to students' growing expectations for digital learning methods, already in 2020 an interdisciplinary team at the University of Tübingen developed the innovative game-based e-learning system **Graveler**. The project brought together *Global Awareness Education*, the *M.A. specialization Digital Humanities*, and the *Center for Teaching and Learning in Higher Education*.

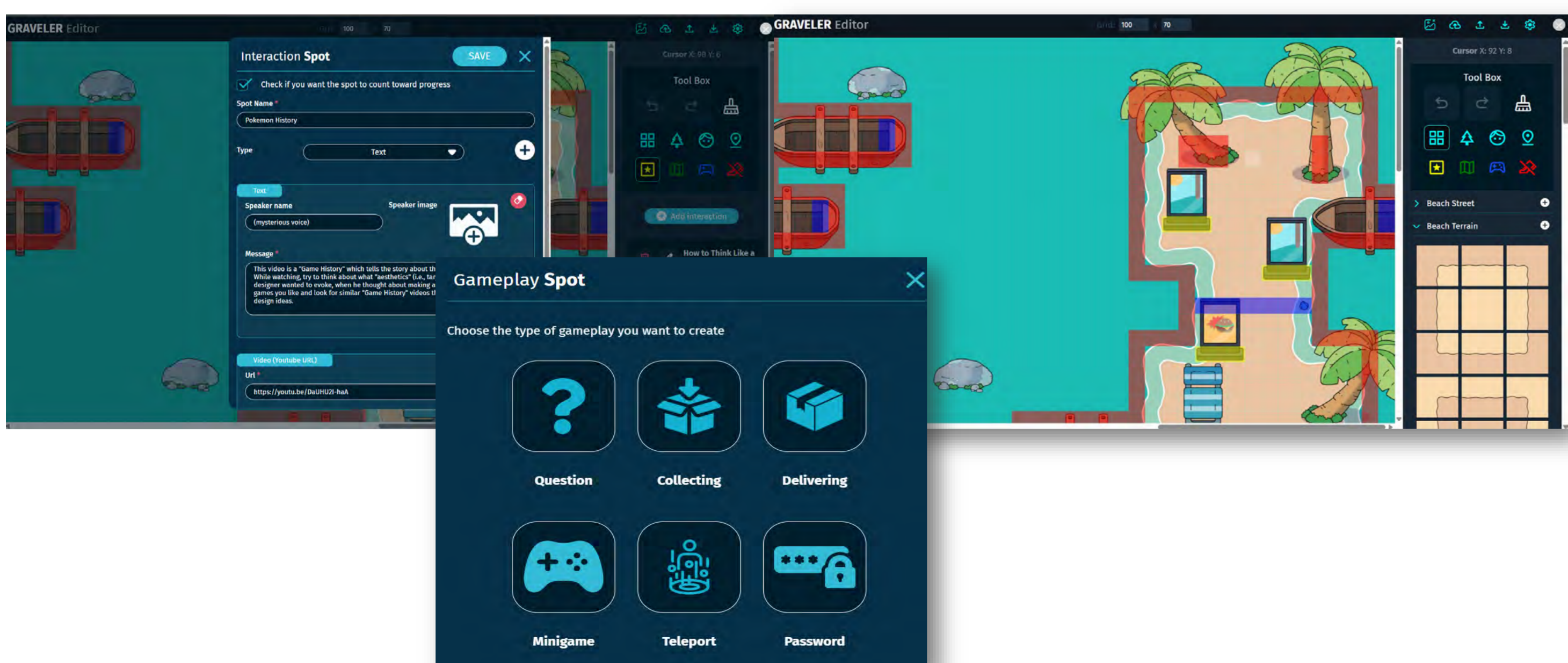
## PLAYFUL EXPLORATION

Graveler is a web-based multiplayer role-playing environment with spatial chat and integrated learning technologies, inspired by *Moodle*, *RPG Maker*, and *Gather*. Players explore interactive environments guided by non-player characters (NPCs) that support navigation and storytelling. Interaction points provide information and access to external resources such as videos, 360° images, 3D viewers, AI chatbots, browser-based games, and collaborative tools.



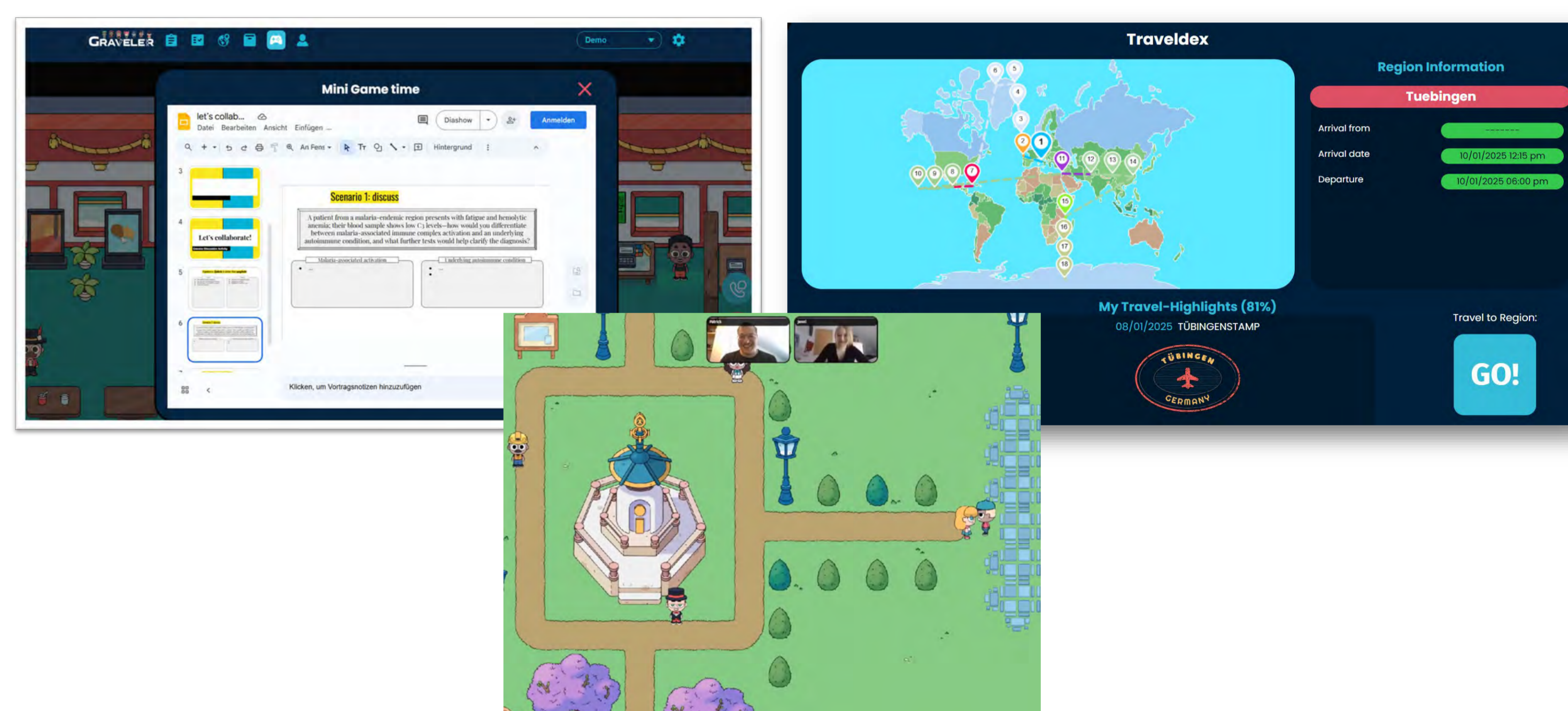
## MULTIMEDIA EDITOR

A built-in WYSIWYG editor enables the creation of scenic virtual environments, including the placement of NPCs and interactive elements. Graveler supports the integration of diverse media types and external resources – such as text, images, video, audio, immersive games, and VR experiences – allowing existing teaching materials to be reused without modification.



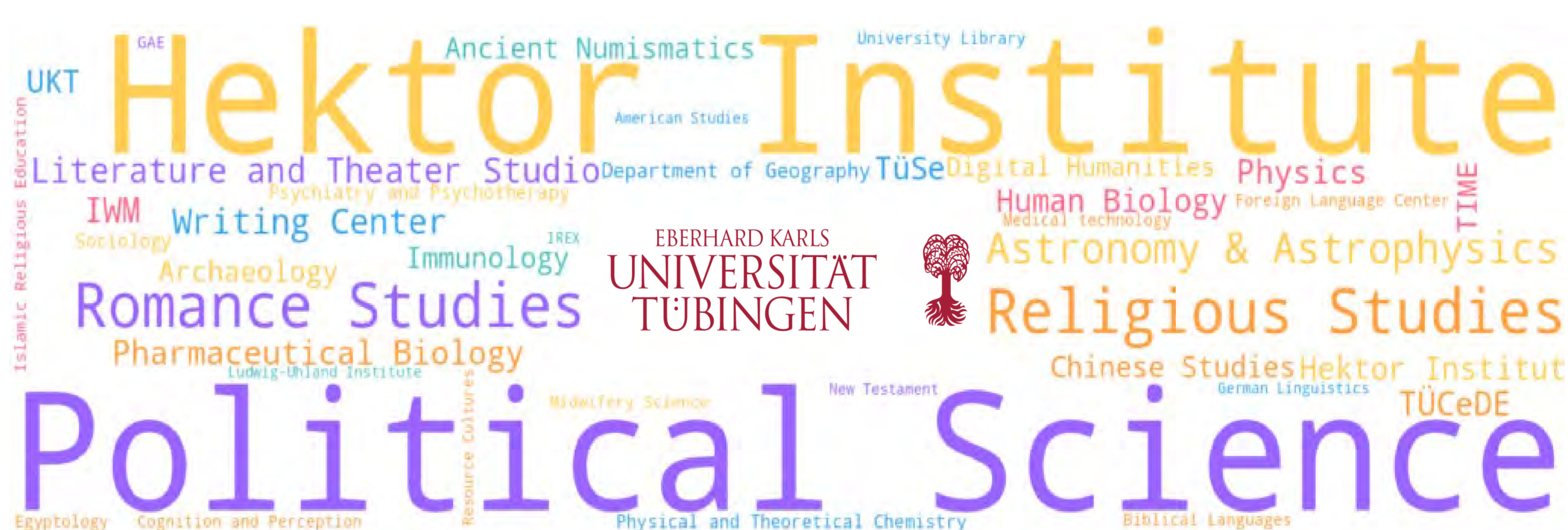
## COOPERATIVE EXPLORATION

The spatial chat feature allows players to initiate video calls directly in their browser when multiple characters meet in the virtual environment. This facilitates interaction among players, encourages active discussion, supports group-based tasks, and promotes the exchange of knowledge and experiences. In addition, spatial chat can be used to create virtual environments for workshops that incorporate expert sessions, even when participants and experts are geographically separated.



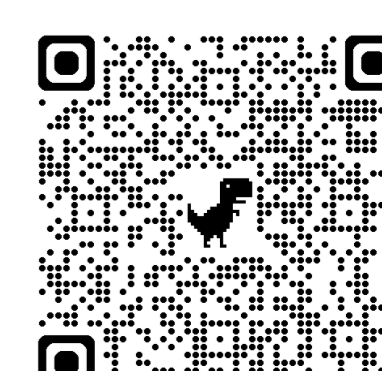
## INNOVATIVE E-LEARNING SYSTEM

Graveler includes core functionalities typical of e-learning systems, such as literature and media portfolios, assignment management, workshop and class organization, and user administration. In addition, modern gamification elements have been implemented to motivate players, including visualizations of task progression and the player diary – known as the *Traveldex* – inspired by Japanese Eki stamp books. This diary visually records key events in the player's virtual journey, such as highlighted moments and unlocked achievements.



## COMMUNITY OF PRACTICE

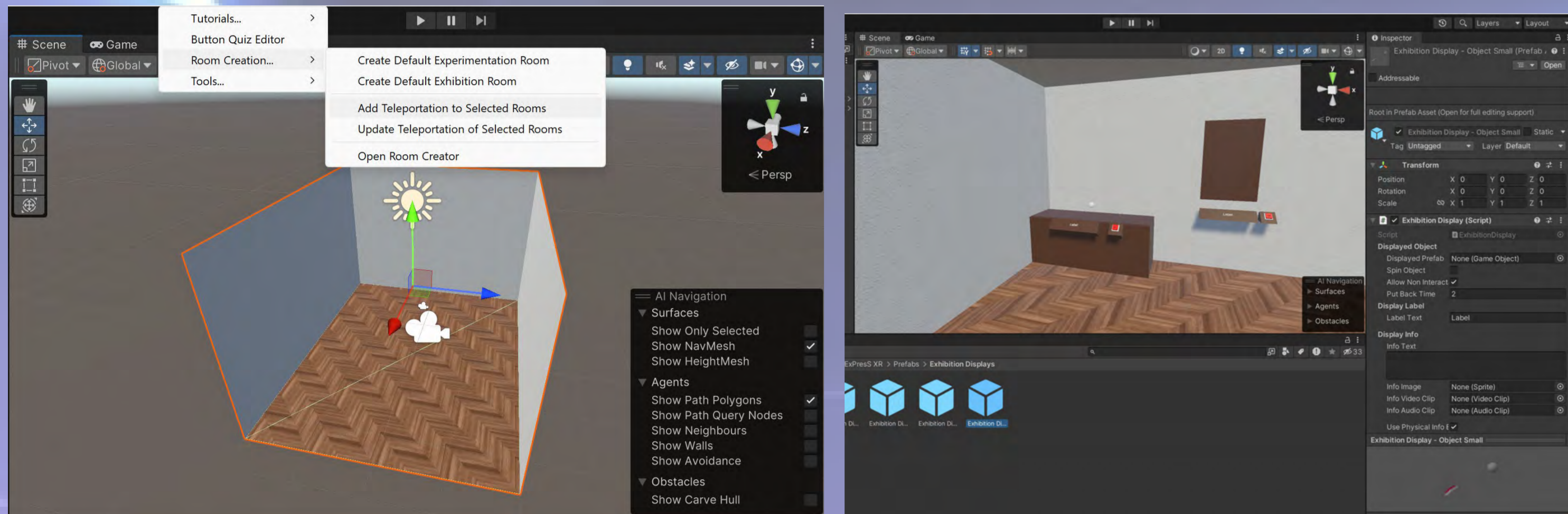
Funded by the *Stiftung Innovation in der Hochschullehre*, a community of practice was established. Accordingly, Graveler has been used in a wide range of university classes and workshops across diverse fields, and a strong and active community was built throughout the last years. Using their practical user experiences, Graveler was improved iteratively, e.g. through functionalities that enable the export of virtual worlds, their publication as OER, and their re-import for reuse and adaptation.





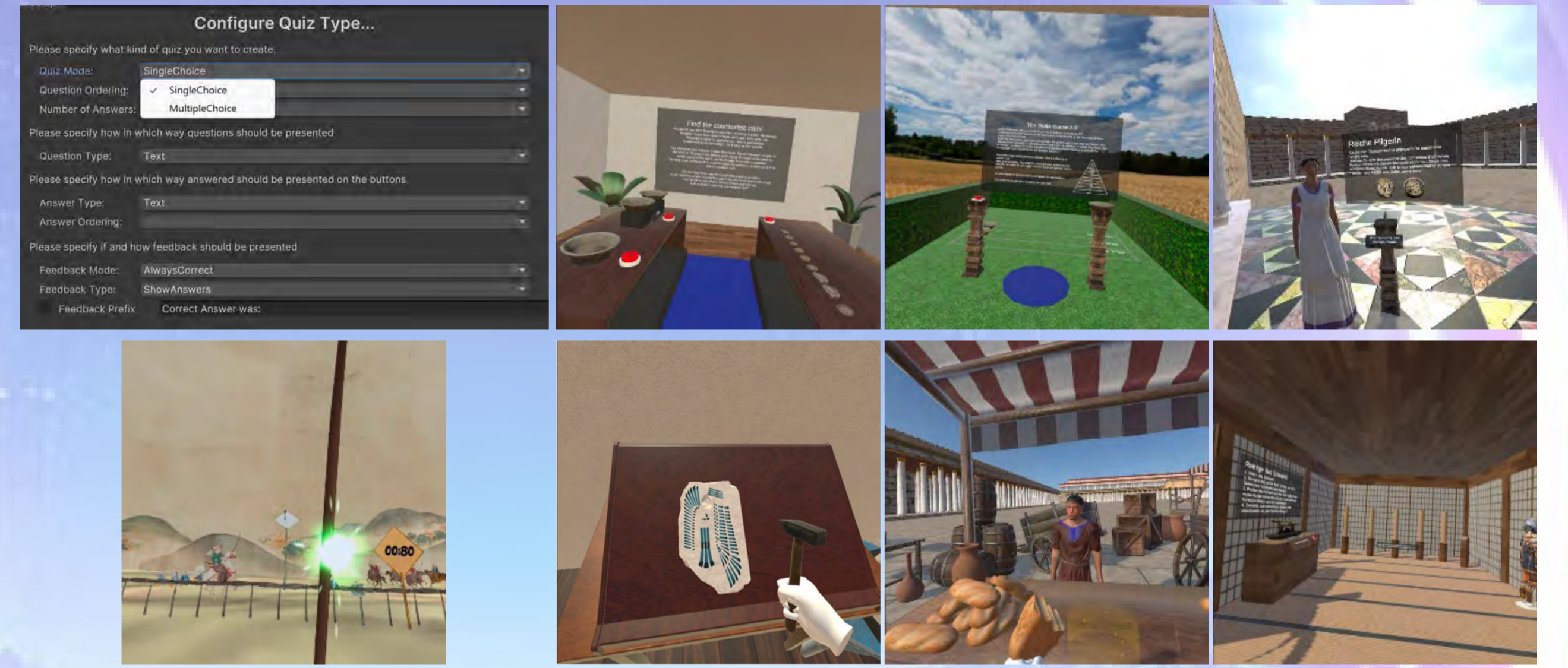
# Experimentation and Presentation for Science with OpenXR

## WYSIWYG Creation



**GLAMs** play a vital role in preserving the cultural, social, and technological achievements of past societies. To support them in the development of extended reality (XR) experiences, the M.A. specialization in Digital Humanities and the Numismatic Research Center and Collection at the Faculty of Humanities, University of Tübingen, developed **ExPres XR**: a framework that enables the creation of XR experiences without the need for programming.

## Game Based Learning

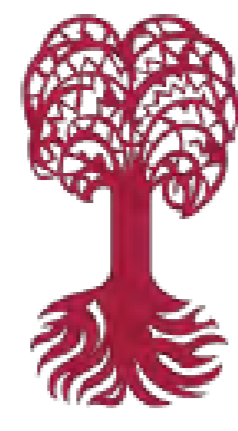


Built on the Unity game engine, ExPres XR utilizes Unity's What-You-See-Is-What-You-Get (**WYSIWYG**) editor to support the efficient development of virtual worlds. Beyond Unity's native functionality for virtual environment creation, ExPres XR incorporates a room-creation system that enables the design of exhibition-like spaces navigable in six degrees of freedom, thereby serving as a structural foundation for immersive XR experiences. In addition, the system facilitates the integration of configurable interactive showcases, which can be populated with a variety of media formats, including text, audio, images, video, and 3D models. Moreover, to support game-based learning approaches, a set of freely configurable minigames can be embedded within the environment.

ExPres-XR provides functionality to collect data from XR sessions, such as eye tracking, interaction behaviour, and success rates. These data can be exported in data formats (e.g., CSV) commonly used by statistical analysis software. To achieve the long-term sustainability of developed experiences, the Khronos Group's **OpenXR** application interface is used to ensure the functionality of the developed application across a wide range of XR hardware.

## Showcases





# Travelling through Data

## Julius Euting's Oriental Diaries in the Digital Age

### The Travels and the Diaries



The diaries at the library

Julius Euting studied Protestant theology and Oriental languages at the University of Tübingen and later worked as a librarian at the University Library (1868–1871).

Between 1869 and 1905, he undertook eight journeys to the Orient and North Africa and documented them in his travel diaries.

Today, the library preserves an important part of his estate within its historical collection, including travel diaries — some richly illustrated— as well as sketchbooks.



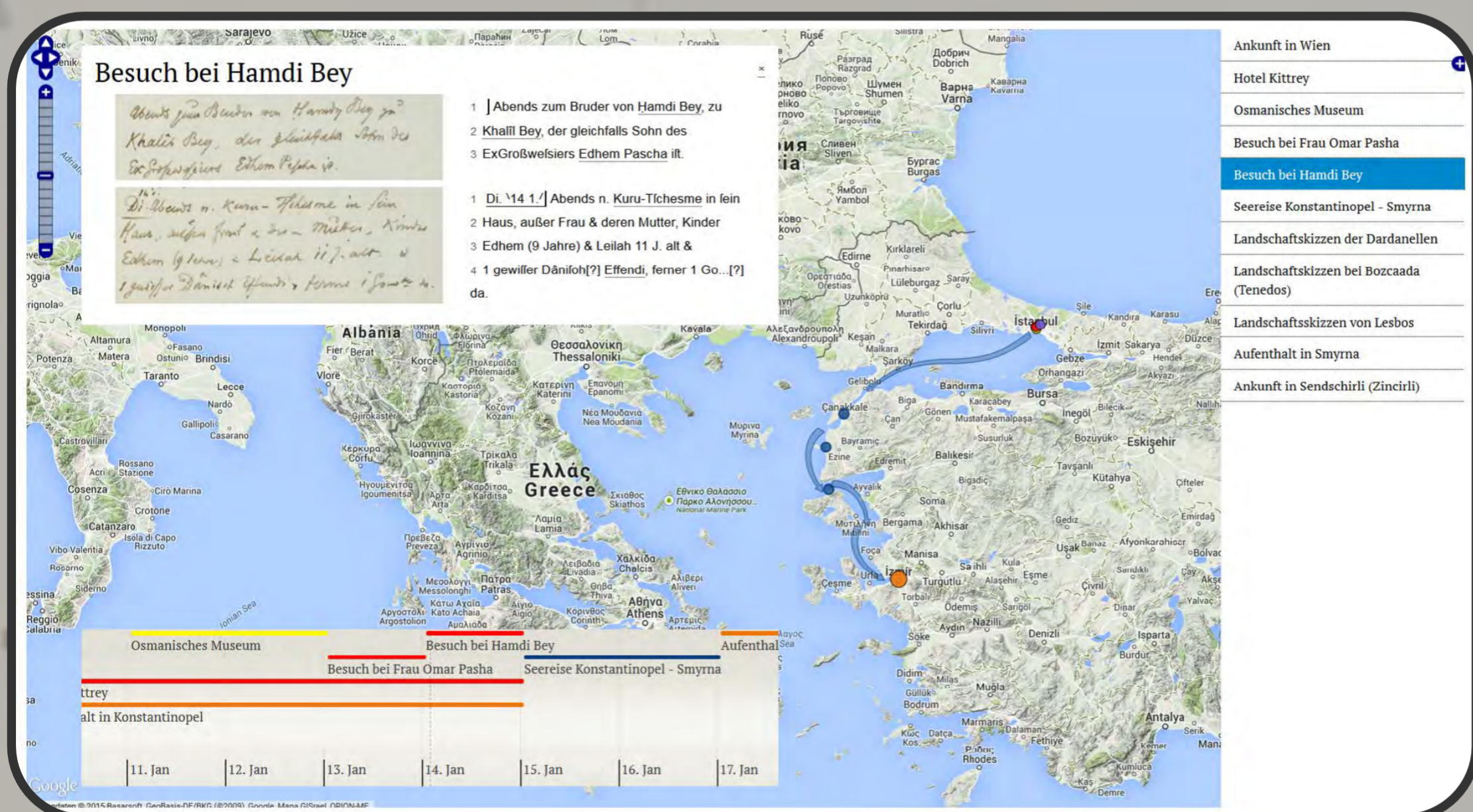
Euting in Bedouin dress



Drawing in the diaries

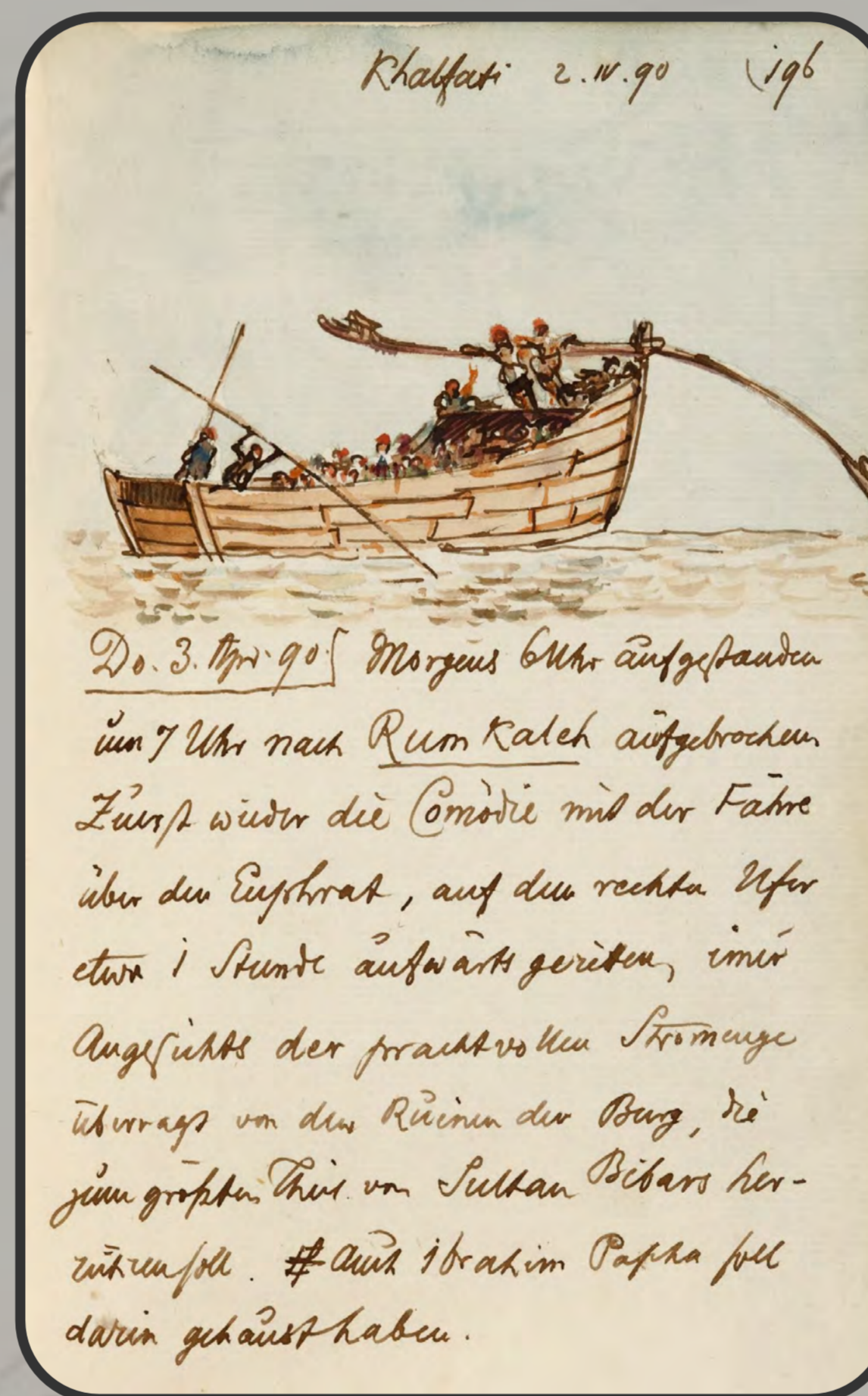
### The First Web Edition

The first edition of Euting's journey to Syria (1890) was created in 2014 using the open-source publishing platform Omeka with the Neatline plugin for the map and timeline. However, long-term maintenance proved unsustainable. This website is no longer available.



Screenshot of the old website

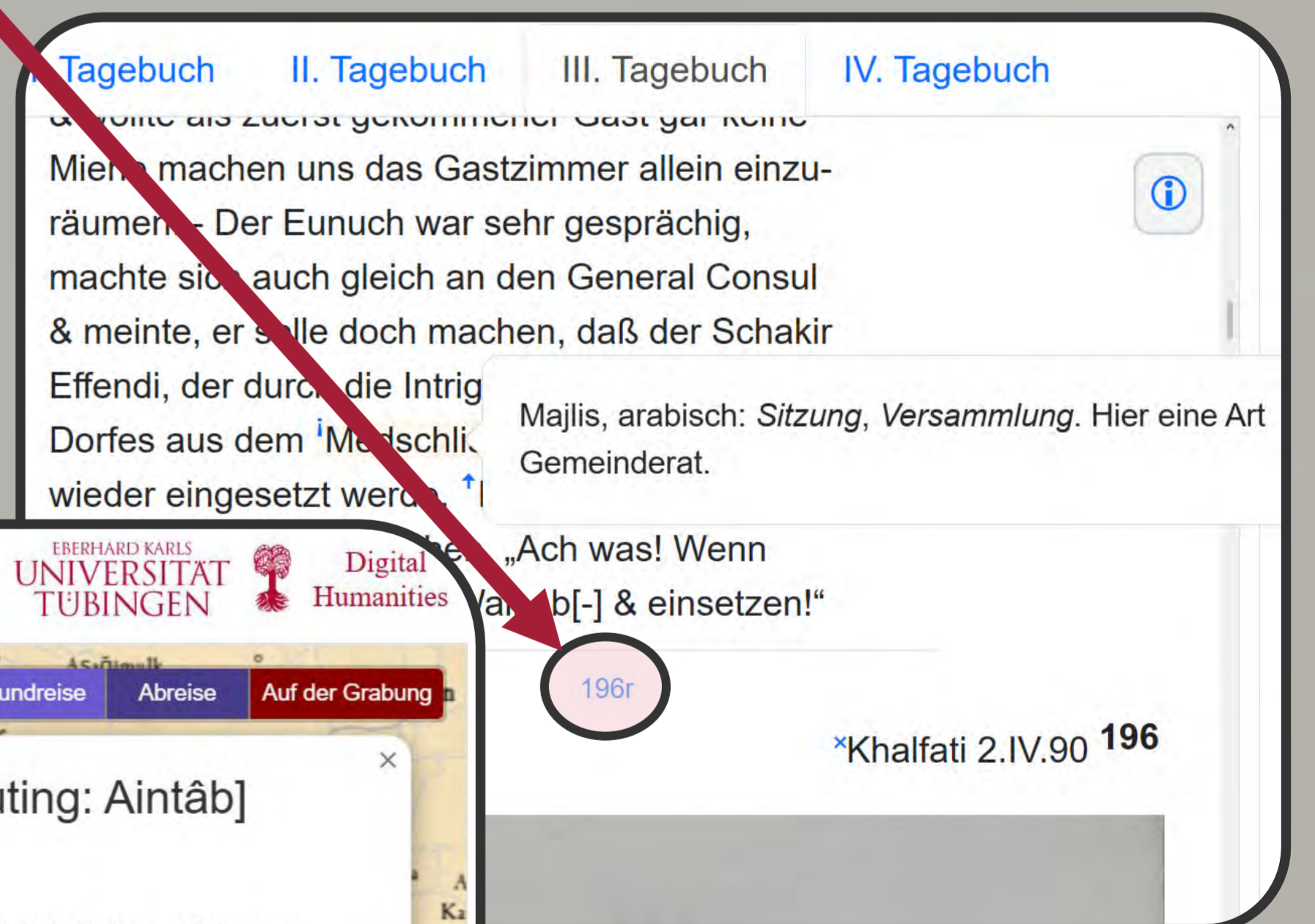
### Digitisation of the Diaries



Journey to North Syria, Md 676-9, p. 196r

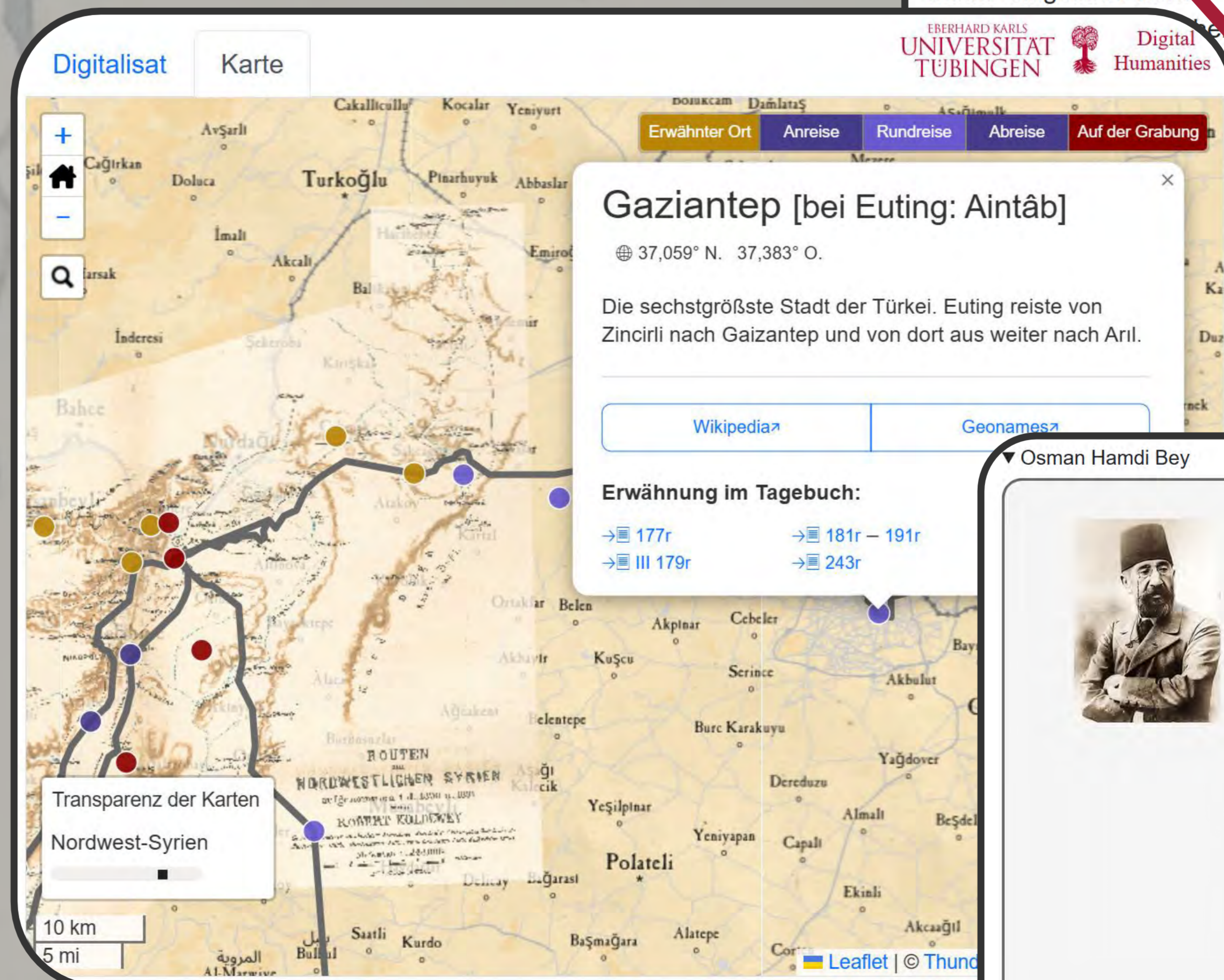
The 26 diaries and 10 sketchbooks at the University Library were digitised between 2011 and 2013. The digitisation of some 6,000 pages was carried out as part of the project 'From the vault to the world: digitisation of valuable holdings in libraries in Baden-Württemberg'.

The Graz book table was mainly used here to process the volumes as gently as possible.

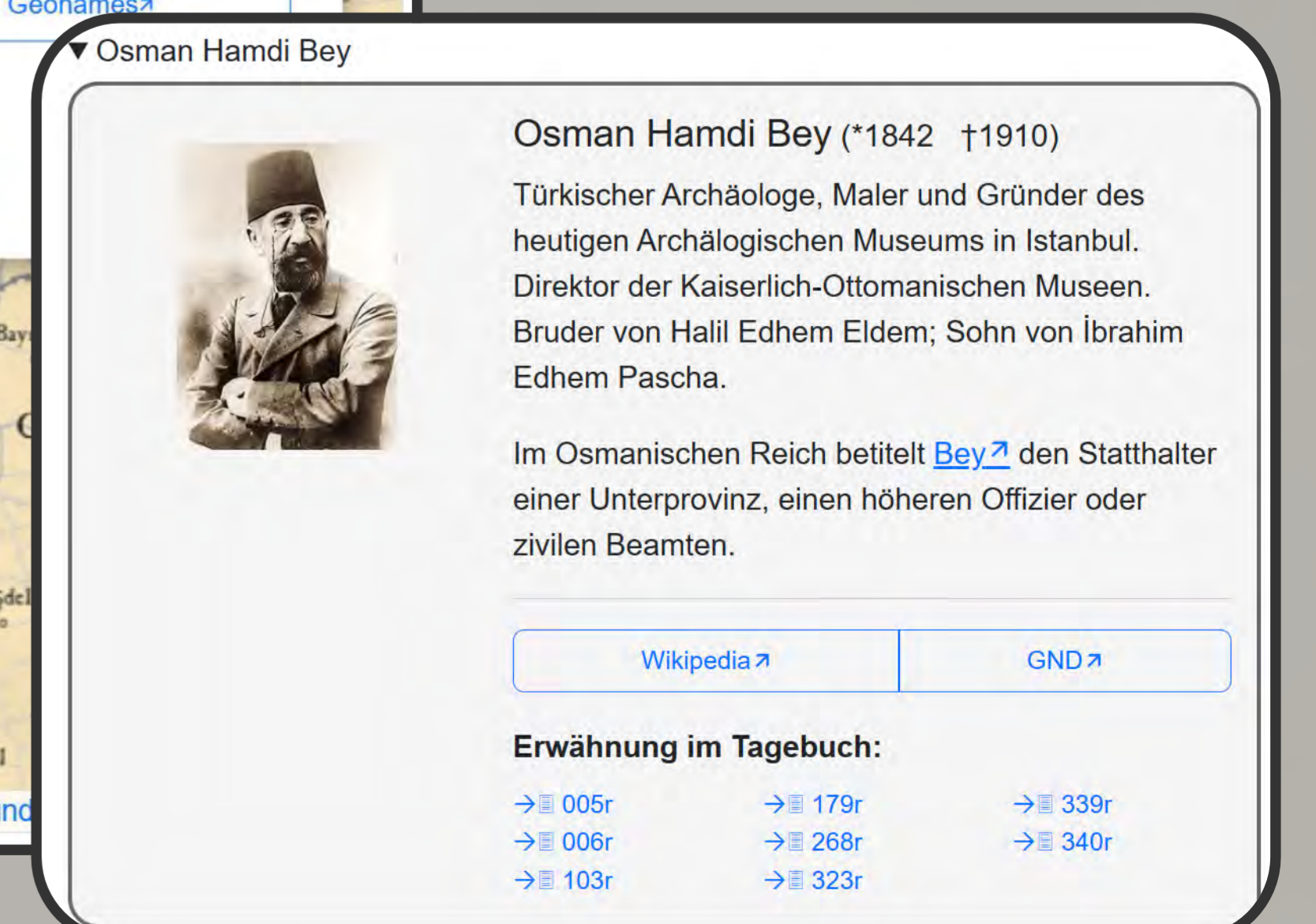


### The New Web Edition

In 2025, a streamlined client-side website of Euting's journey to Syria (1890) was developed using Bootstrap and Leaflet, with no external dependencies except links to the University Library of Tübingen image portal and reference pages. The website is designed to serve users for many years to come.



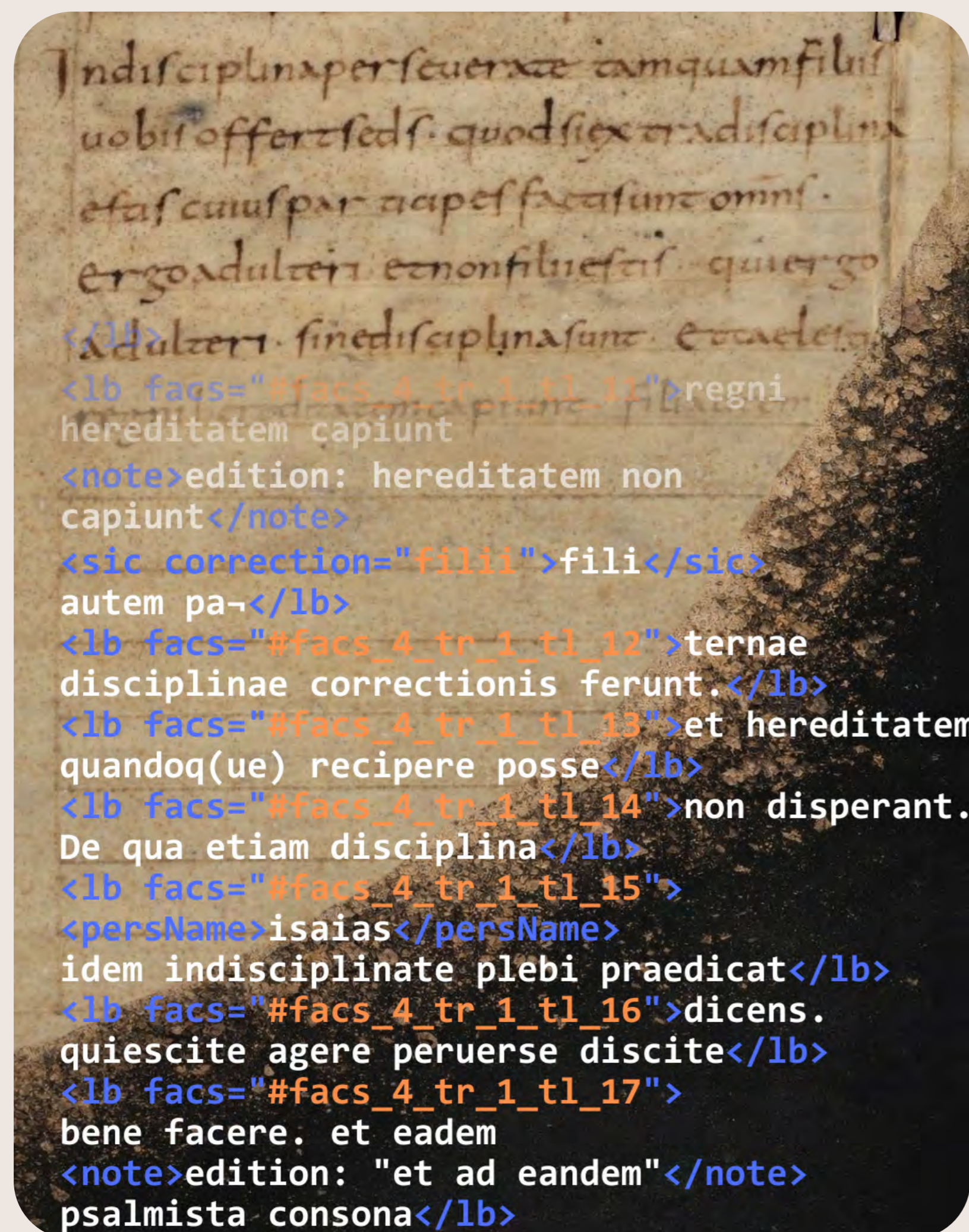
Screenshots of the new website





## From Fragments to Findings

### Research infrastructures for digital humanities



#### Digitisation

- Online Access
- Digital Reconstruction



#### Processing

- Image Pre-Processing
- OCR/HTR
- Text Encoding (TEI-XML)



#### AI Analysis

- Data Post-Processing
- NER
- Automated Data Extraction
- Semantic Text Comparison



#### Publishing

- Digital Edition
- Long-Term Preservation

Sources → Data → Knowledge

#### Historical documents

Libraries house many untapped treasures for research within their historical collections. Literally a treasure trove are fragment boxes which house remainders of books, which haven't survived in their original form but are important witnesses of the texts they carry. With these sometimes quite small puzzle pieces we can complete our picture of the past - and in some cases even the original document.

#### Digital Methods

To support computational research, digitized historical documents are first converted into machine-readable formats. This process utilizes automatic text recognition (OCR/HTR) and TEI-XML encoding to establish a versatile textual foundation. The resulting structured output allows for the application of AI-powered Natural Language Processing (NLP) methods, including Named Entity Recognition (NER), automated metadata extraction, and computational text comparison, to enable data-driven analysis provided by research-oriented library services for new research opportunities.

#### Library Infrastructure

Digital editions open up new possibilities to explore historical texts that go beyond those supplied by printed editions. While many digital editions offer special functionalities, which are at the cutting edge of technical development at the time, they often don't age well. Usually created within a project context there is no one to maintain and update them. The University Library of Tübingen is on its way to establish in collaboration with the Department of Medieval History the TEI-Publisher as a sustainable infrastructure solution, which is durable and easy to maintain. The content of these editions is archived so that it will be preserved for the long term and can be reused in other contexts.





# Text+ in Practice: FAIR Access to Language Corpora and Lexical Resources in a Federated Infrastructure

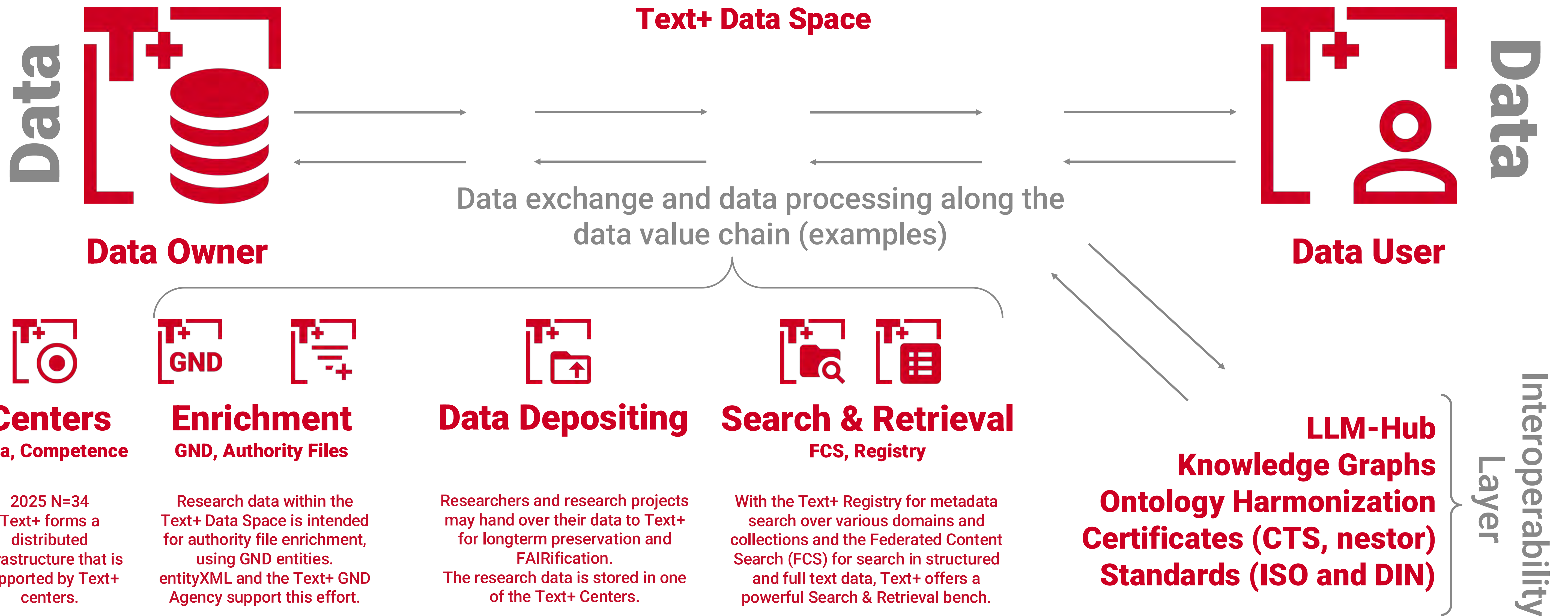
Collections  
Lexical  
Resources  
Editions  
Infrastructure/  
Operations

Thorsten Trippel – and many colleagues from the Text+ consortium

thorsten.trippel@uni-tuebingen.de

## Data sharing

in the  
Text+ Data Space



## Typical Use Cases

### Searching for and linking research data

**Use Case:** Text+ Registry

**Objective:** To search for distributed data using the relevant metadata

**Development in Text+:** Creation of the registry, integration of relevant catalogue systems, and connection to overarching structures and search systems

**Status:** Publicly available on the Text+ website; the database is being further expanded

### Search in research data

**Use Case:** Federated Content Search

**Objective:** Searching across distributed data, e.g. across different dictionaries

**Development in Text+:** Expansion of the database; extension to support queries to lexical resources

**Status:** Publicly available; Text+ website; database is being further expanded

### Analysis of research data

**Use Case:** Buchpreis@KorAP

**Objective:** To enable searching across all longlisted books for the German Book Prize through collaboration in Text+

**Development in Text+:** Automated annotation of data at the DNB, installation and ingestion of data

**Status:** Publicly available, linked from the German Book Prize, DNB, Text+

**Further information:** <https://tinyurl.com/y8zfnmk>

### Use of protected research data

**Use Case:** Derived Text Formats

**Objective:** To make research data subject to copyright or data protection restrictions available for reuse in research

**Development in Text+:** DIN 19461:2026-04 (E) standard on derived text formats, examples of use

**Status:** Draft national standard

| Rang N-Gramm | Häufigkeit            |
|--------------|-----------------------|
| 1            | gott sei dank 43      |
| 2            | ja gnädigste frau 17  |
| 3            | auch heute wieder 13  |
| 4            | doch auch wieder 11   |
| 5            | ist doch auch 11      |
| 6            | ist immer so 10       |
| 7            | gnädigste frau ist 10 |
| 8            | war so war 10         |
| 9            | mein gnädigste frau 9 |
| 10           | wird ja wohl 9        |
| 11           | ist doch recht 9      |
| 12           | doch immer noch 9     |

Häufigkeiten von 3-Grammen über mehrere Texte hinweg, bei einer Mindesthäufigkeit von 5. Beispieldaten auf der Grundlage von fünf Erzähltexten von Theodor Fontane, Schöch et al. 2020

### Semantic interoperability of data

**Use Case:** Text+ GND Agency

**Objective:** To support projects in contributing their research data to the GND as standardised data.

**Development in Text+:** Contact point: The point of contact for researchers wishing to contribute data to the GND. **Advisory service (under development):** Text+ provides advice on matters relating to the GND and makes information materials available. Data service: Support with the creation of GND-compliant standardised data. Validation, cleaning, enrichment and conversion into the GND's ingest format. Feedback to researchers regarding data enriched with a GND ID.

**Status:** Work in progress, but some services are already available and operational (e.g. entityXML)

### Data Model

- Key-value based Lemma entries
- Entry:** a single result, with optional language info
- Field:** set of values grouped by type, e.g.,
  - entryId, lemma, phonetic, translation, transcription, definition, etymology, case, number, gender, pos, segmentation, sentiment, antonym, hyponym, hypernym, meronym, holonym, synonym, subordinate, superordinate, related, ref, senseRef, citation
  - Value:** actual "content"/value with attributes for additional context, e.g., xml:id, xml:lang, langUri, preferred, ref, idrefs, vocabRef, vocabValueRef, type, source, sourceRef, date

Natural serialization in **Lex Data View (XML)**

### Analysis and tool integration

**Use Case:** Multilingual Treebank Exploration

**Objective:** Enable syntactic search and analysis across >400 Tübingen treebanks

**Development:** UD treebanks + local corpora; creation of new treebanks supported; analysis via Syndra

**Status:** Public tools; continuously expanded; user-generated treebanks searchable

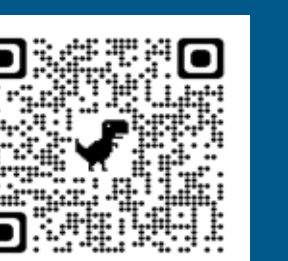
### Reference data sets

**Use Case:** Semantic exploration of German vocabulary; Light weight ontology

**Objective:** Provide a structured lexical-semantic network linking >179k synsets

**Development:** University of Tübingen; APIs; EuroWordNet integration; GermaNet Rover

**Status:** Free academic access; extensive tool ecosystem; actively expanded (Release 20.0)



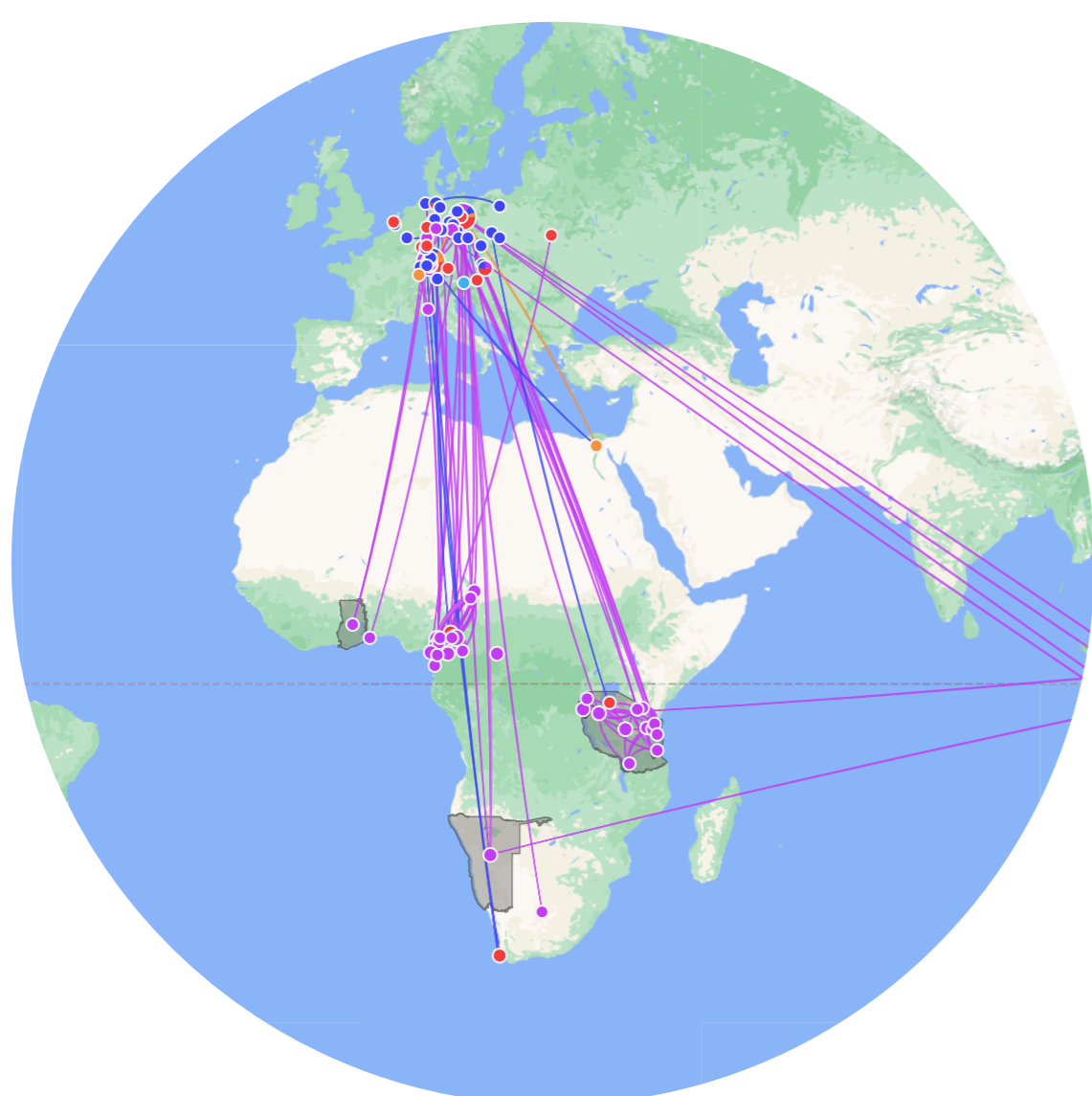


# Tracing Origins and Confronting Legacies

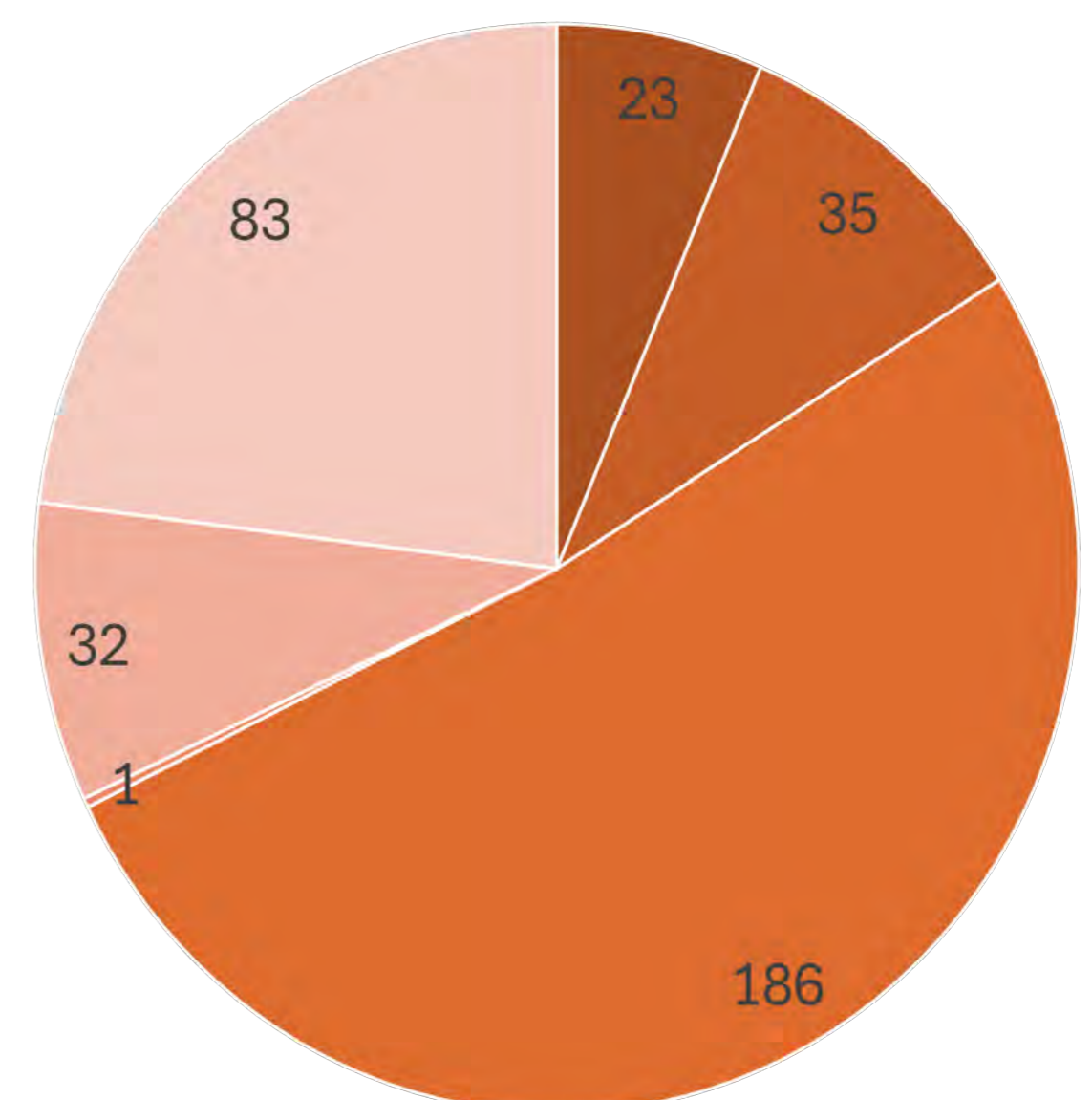
Provenance Research at the Museum of the University of Tübingen MUT

Annika Vosseler, Anne Kremmer

Overview of ancestral human remains in the Osteological Collection at the University of Tübingen

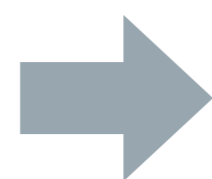


- Africa
- Asia
- Oceania/Australia
- North America
- Middle- and South America
- non-European



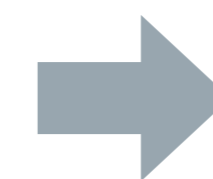
## Goals

- » Define collector and institutional networks
- » Establish relations with local communities
- » Relocate ancestral remains to dignified resting place



## Procedure

- » Record of all ancestral remains
- » Archival Research
- » Network Reconstruction
- » Osteobiographies



## Results

- » Completion of *Precarious Provenance* joint project
- » A total of 360 ancestral human remains
- » From 6 geographical regions
- » From ca. 25 countries

## Restitution

- » Reconstruction of provenance and ownership
- » Coordination with local communities
- » Restitution of Hinematiaro's Pou to the Te Aitanga-a-Hauti in Aotearoa, New Zealand



## Outreach

- » Public Engagement session at Eckstein pop-up store to encourage people to critically engage with provenance research
- » Seminar within Media Sciences, which led to student outputs creating awareness around provenance research and restitution



# Core Facility Biobank Tübingen - High-quality biomaterial and data for research excellence

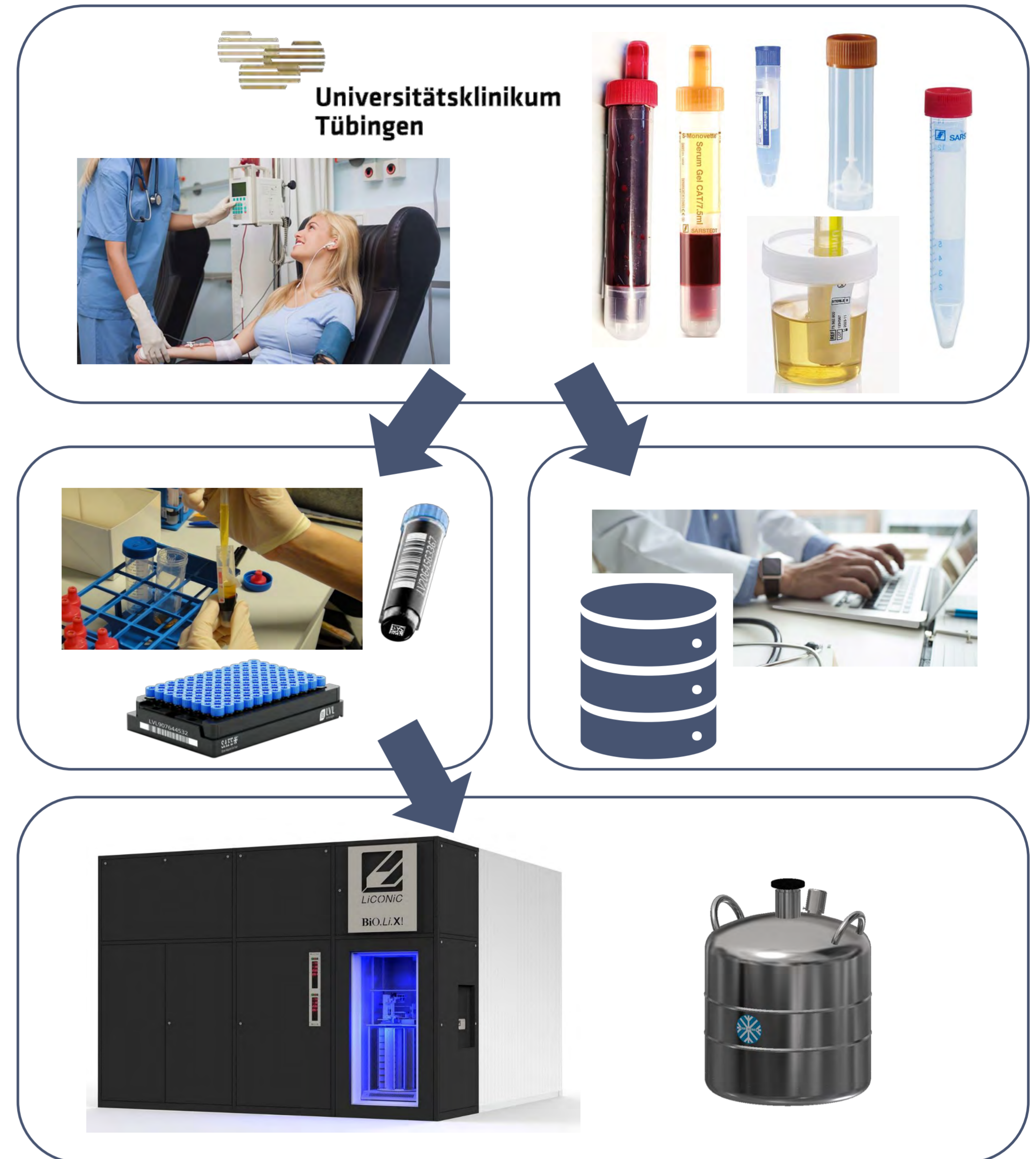
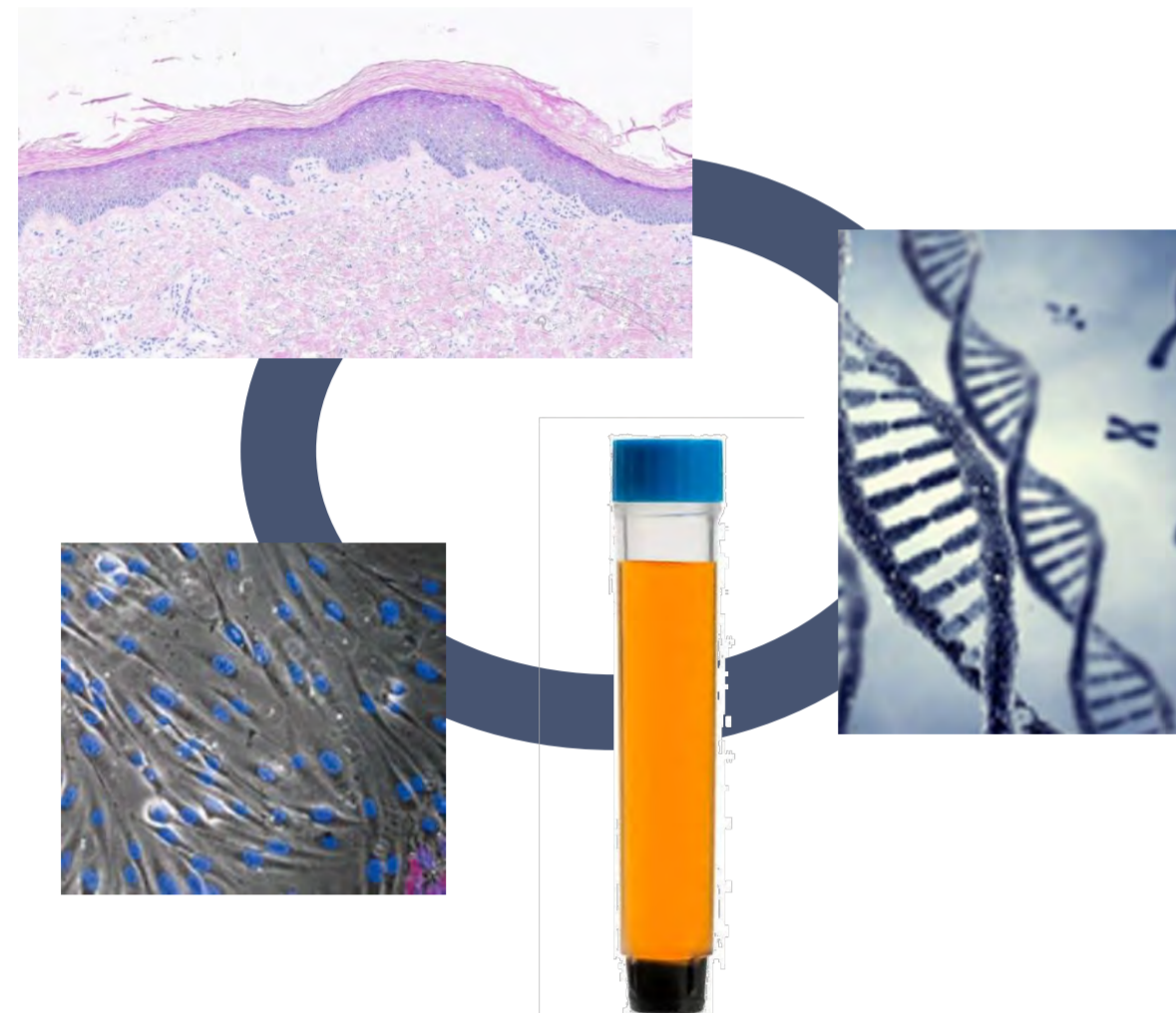
A Dreher, C Schulte, J Dörenberg

## The Biobank

The Core Facility Biobank is a facility of the Medical Faculty at the University of Tübingen. It provides researchers in Tübingen and beyond with high-quality biological samples of human or animal origin.

### Future Highlights:

- Matched samples
- Laboratory animal biobanking
- Environmental Biobanking



## Data

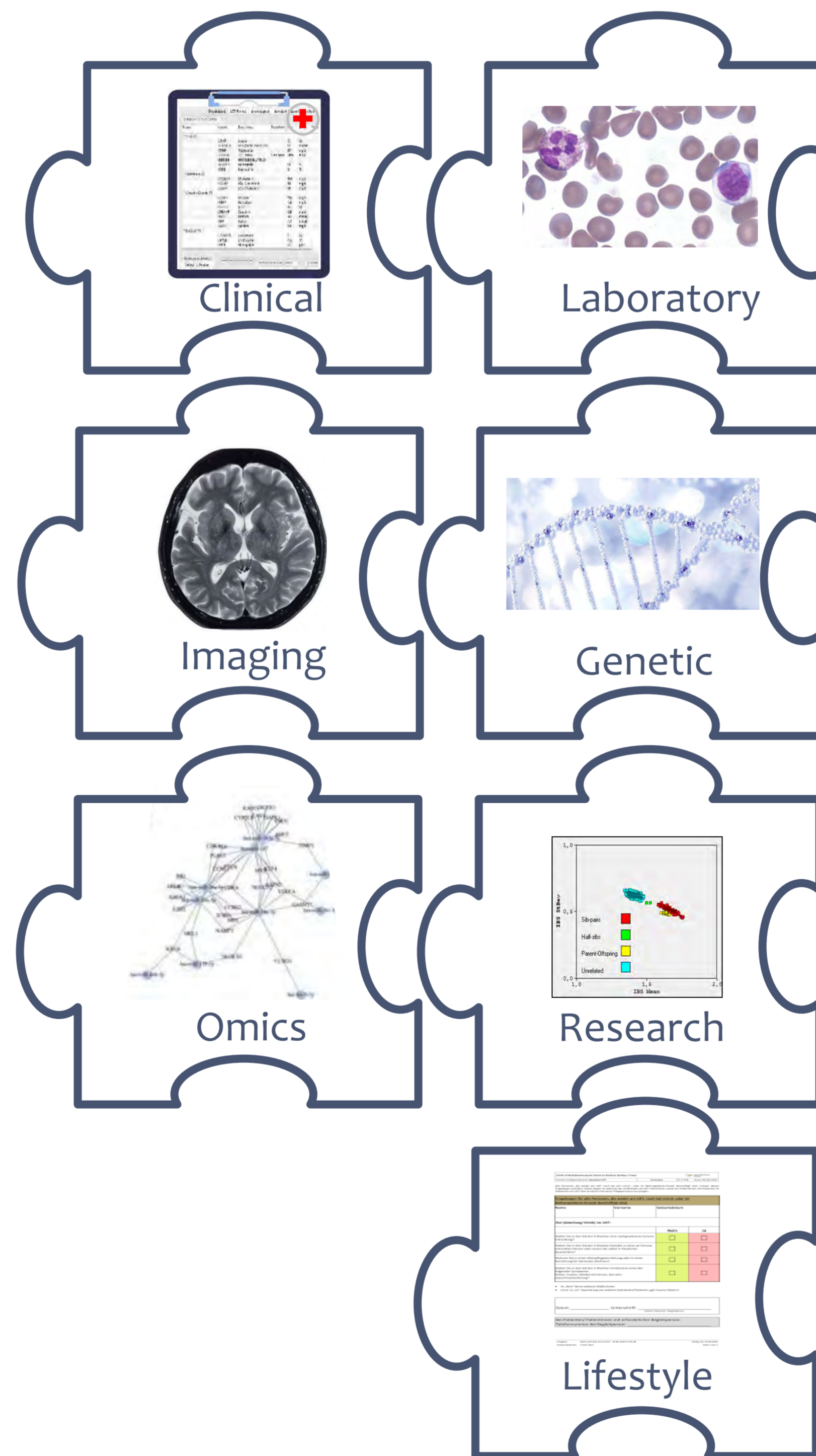
Associated data are essential

Comprehensive information such as genetics, clinical records, and lifestyle details

Active retrieval, combination, curation and standardisation of data from various sources

Linkage and connecting to biological samples

➤ Powerful research resources by harmonising diverse data types



## Quality, Ethics, Laws & Donor Rights

- processing using standardized methods
- long-term storage under optimal, quality-assured conditions
- Consent management



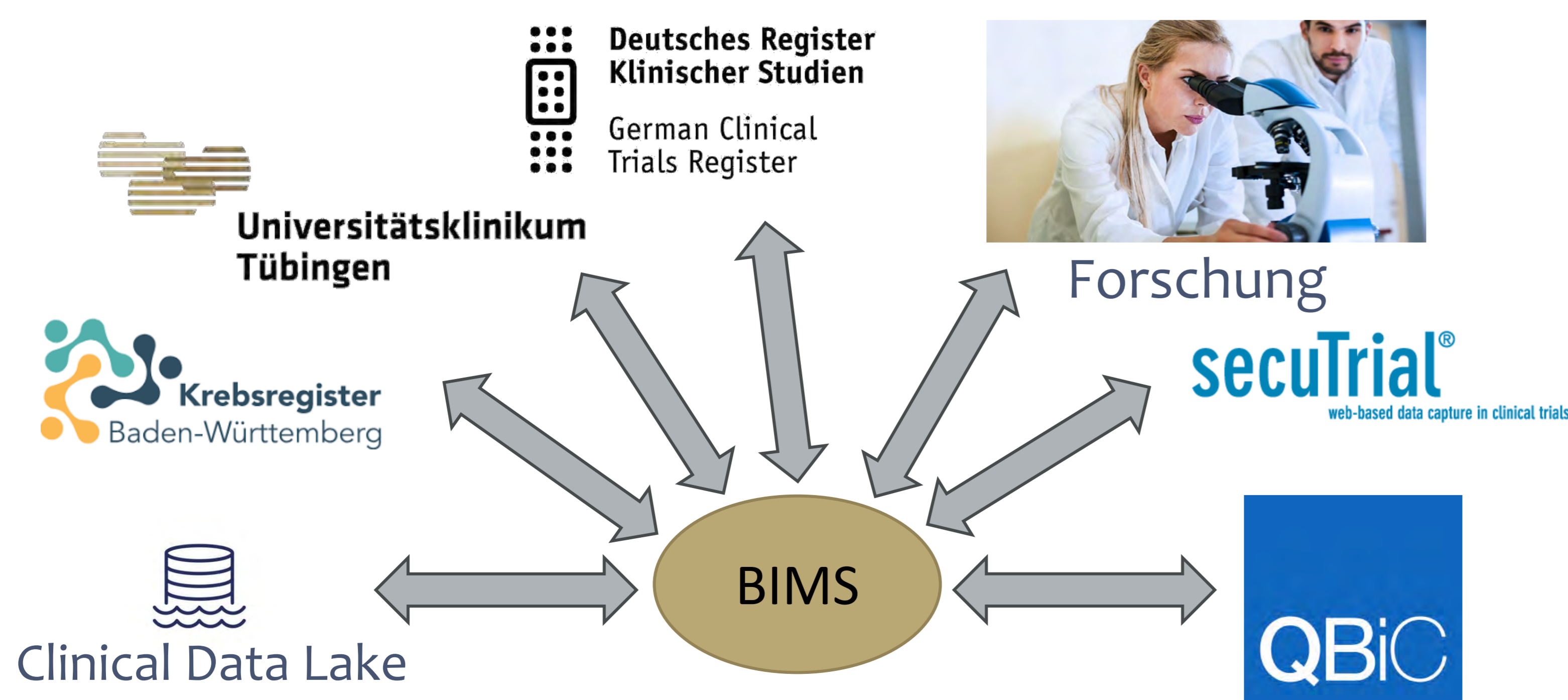
## Advice & Support

- Assistance with planning and implementation of studies using samples and data
- Supporting scientific collaborations
- Assistance in preparing manuscripts



## Goals

- Support of all areas of biomedical research for successful scientific progress
- Access to a wide range of well-characterised, sufficient and varied samples
- Ultimate goal is advancing health-related knowledge



# OMnibus of MANTRAMS

## A mobile-first, immersive digital archive of multimedia material on mantras in Global Southern Asia

The ERC-funded research project „MANTRAMS – Mantras in Religion, Media, and Society in Global Southern Asia“ is jointly hosted by the Universities of Tübingen, Vienna and Oxford (2024-2030) and aims at producing a global history and anthropology of mantras past and present, combining historical-philological methods, material culture studies and sonic ethnography with unprecedented interdisciplinary collaboration. Researchers and local collaborators collate, collect and produce large bodies of multimedia material in many languages and scripts, with a particular focus on highlighting vernacular religious practices of marginalized communities.

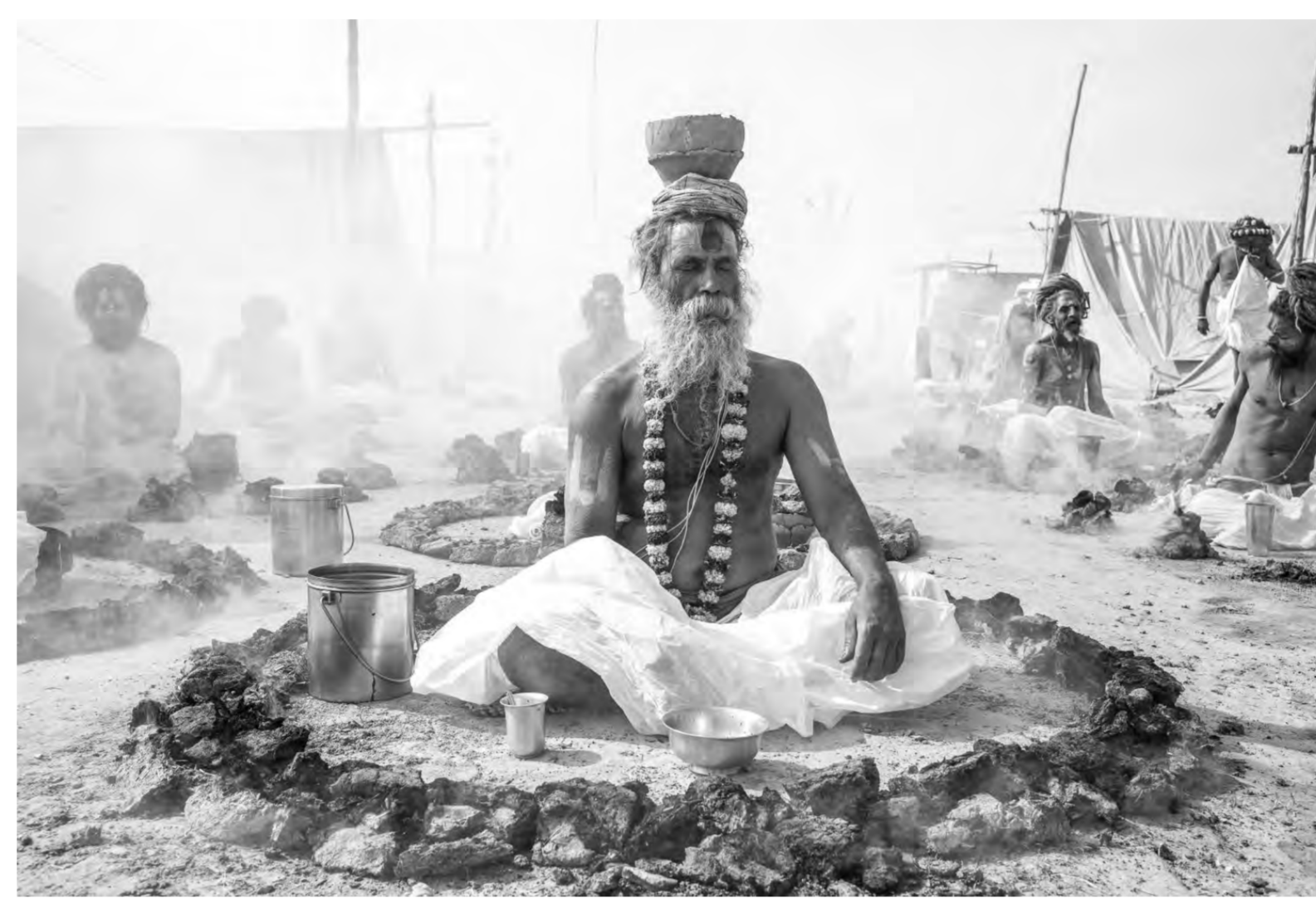
The OMnibus of MANTRAMS is the core digital research output, an online multimedia exhibition and archive of mantras, curated from the MANTRAMS data corpus, mapped and openly accessible. Navigating FAIR and CARE Principles of Indigenous Data Governance, local protocols of access and representation, EU Data Protection legislation as well as participatory processes of co-creating academic knowledge, we aim at establishing an immersive yet low-tech online-presence as a de-colonial collection practice to foster epistemic justice.



Devanagari Graffiti spelling Rām using Sindo (orange powder mixed with oil) on a wall located in Tulsi's temple dedicated to Rama and entourage in his house located in Tulsī Ghat. Field photography in Varanasi, India (2026) by Borayn Larios.



Shawl with red print of Jai Śrī Rām and Om sold in a bazaar stand. Field photography at Godowlia Bazaar, Varanasi, India (2026) by Borayn Larios.



Untitled [Rāmānandi] holyman practicing dhūni-tap, the penance, religious austerity - tapasya, yoga. Photographed in Allahabad, India (2019) by Prema S. Goel. Rāmānandi sadhu: Phalarī Jī Tyagi.



Recitation of the Adhyātma Rāmāyanaṁ Kīrtānī during the peak monsoon season of Kaikkāṣṭam as part of a village sālsangam group. Field photography in Ernakulam District, Kerala, India (2025) by Mukul Menon.



Devta Naag Dhruval crossing the river Beas, while departing from his mother's village Goshal. Field photography in Manali, Himachal Pradesh, India (2021) by Ishita Mahajan.

### Collaboration and participatory design

- Required baseline: mobile-first design
- Fieldwork Call for **contributions** (material / data)
- Fieldwork Call for **collaborative design** (user-centric design, UI/UX, languages, affordances, look and feel)
- Fieldwork Call for **emic ethics and knowledge representation** (metadata, access and secrecy, modes of display)

### Tools of immersion and intervention

- **Focus Modes** for visual material and synaesthetic *Listening Rooms* for audio material
- Highly simplified graphics templates with customizable combinations to curate moods
- Possibilities of **Hypermedia Representation** (Dicks et al. 2005): Interpretative Pages, Multimedia Essays
- Animations to retain tactility and movement
- **Development fully in-house** for maximum customization and control

### Interpretative Pages

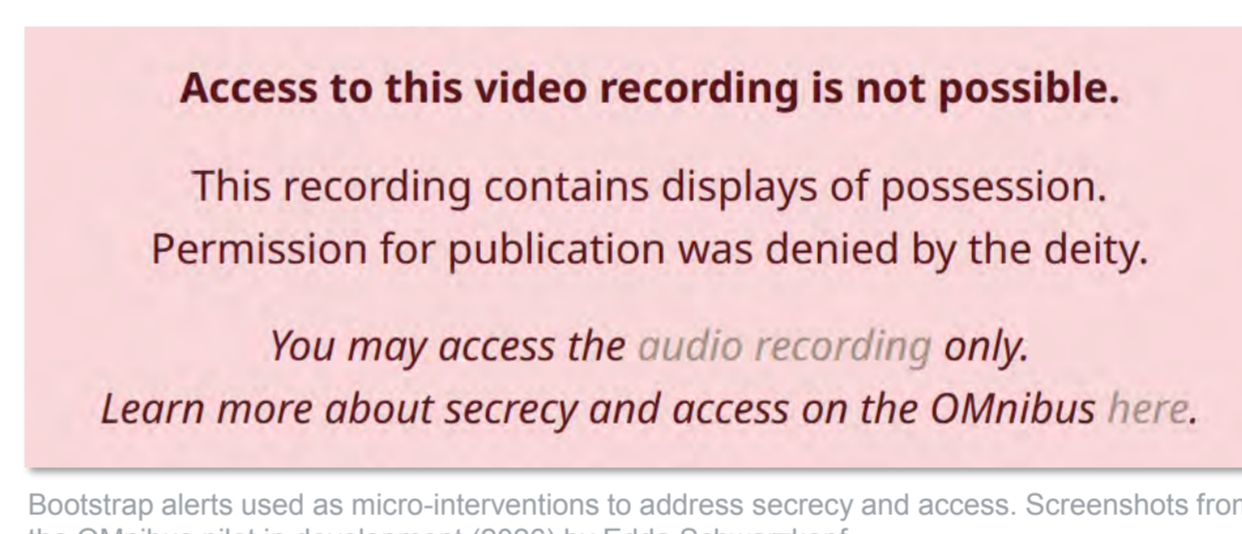


Mockup of a Multimedia Essay page for mobile viewports (2026) by Edda Schwarzkopf. Easy development by Kamika Pruthi, Piyush Kukrety and Borayn Larios.

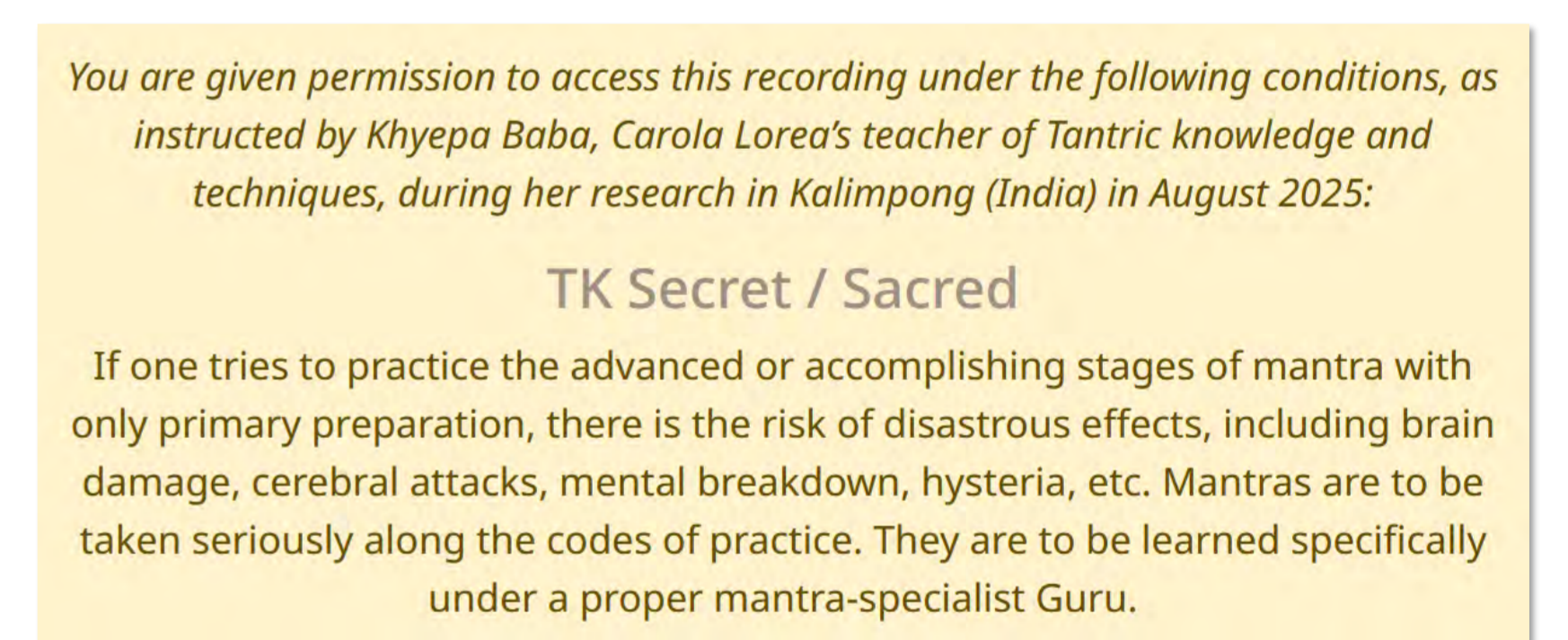
### Access and Secrecy

**Secrecy is both analyzed and performed on the OMnibus.** Secrecy around material from the MANTRAMS data corpus is relational and highly contextual. The analysis itself is understood as an emblematic performance of knowledge production (Lorea 2018).

The OMnibus of MANTRAMS employs visualization strategies and disclaimers to sensitize users to the nuances of access while being aware that any upload remains an open access publication. For material that cannot be made available with disclaimers, other modes of claiming space among accessible material are sought out: "The absence of a sign becomes itself a sign." (Riffard 1996, p. 67)



Bootstrap alerts used as micro-interventions to address secrecy and access. Screenshots from the OMnibus pilot in development (2026) by Edda Schwarzkopf.



### The CARE Principles for Indigenous Data Governance (adapted to MANTRAMS)

**Collective Benefit.** The MANTRAMS data corpus can be accessed from FDAT and, in a curated and easy-to-use fashion, via the OMnibus by local practitioners for future reuse and distribution. By adding sonic and visual data not just from hegemonic temple communities but from vernacular use as well, MANTRAMS is designed to strive towards inclusive representation. Through extended fieldwork and building reciprocal relationships of trust, the curation of the data corpus will improve citizen engagement and visibility.

**Authority to Control.** We will implement policies that ensure that indigenous and otherwise marginalized research participants can exercise as much control over their data as possible. They will be able to access the Data Hub, should they choose to do so, and the Digital Humanities and Data Management Officer (DHDMO) and the Data Protection Officer (DPO) will be responsible to edit and delete any data upon low-threshold requests via Email or WhatsApp to compensate for the possibility of lacking resources to access the Data Hub.

**Responsibility.** Each researcher will be responsible for conducting herself in a beneficial manner with a positive impact on the research participants. The DHDMO, the MANTRAMS PIs and all involved researchers will strive towards capacity building and training workshops for any interested indigenous or otherwise marginalized parties. Special care will be put into developing the OMnibus in a way that is accessible to local communities, users and contributors alike.

**Ethics.** As per the research design, representing mantras in a transnational manner across religious and linguistic boundaries and particularly recognizing vernacular contributions to the development and spreading of mantras strives to contrast harmful normative politics and maximize benefit for all involved parties. Representing emic ethics protocols in our data management and dissemination is a core task of the Digital Humanities components of MANTRAMS.

**Note on the term "Indigenous" in Asian contexts.** Most populations have very long, entangled histories of migration, conquest, caste formation, assimilation, and state incorporation over millennia. There is no simple binary between "native" and "settler" for the subcontinent as a whole.

In Southern Asia, "indigenous" generally refers to communities who identify themselves, or are identified by others, as historically rooted in particular lands and ecologies, socially and politically distinct from dominant populations, and disproportionately affected by dispossession, marginalization, and struggles over land, autonomy, culture, and recognition (e.g., Adivasi communities). Because states across the region define and govern such communities differently, indigenity in Southern Asia is best understood as a historically and politically situated category rather than a uniform legal status.

At MANTRAMS, we are prepared to apply the concepts and the standards of CARE for Indigenous Data Governance to all research data co-produced with communities of practitioners from South and Southeast Asia, regardless of their administrative categorization.

### Technical Details

omnibus.mantrams.eu

Official Launch Date:  
20 May 2026

following a  
Minimal Computing Approach  
(see Risam/Gill, 2022)

to create a static website without dependencies. Native HTML and CSS, JavaScript only where necessary.

built with  
CollectionBuilder CSV

using the Static Site Generator Jekyll,  
Bootstrap for responsive layouts  
and Liquid data flow mechanisms



longevity through  
low-maintenance tech stack

MANTRAMS data archived in FDAT, OMnibus presentation layer archived in PHAIDRA, Open Source code publication on GitHub.

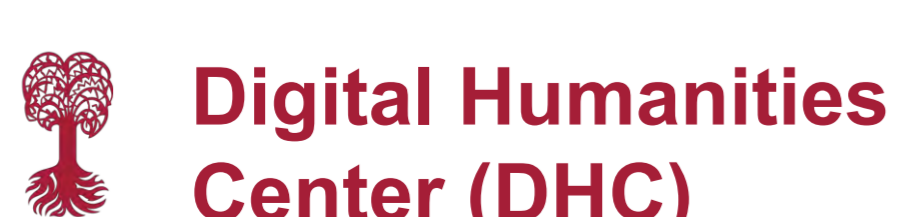
Layered sustainability strategy: web hosting, domain responsibility, isolated web content

References: Dicks, Bella, Amanda Coffey, and Bruce Mason. *Qualitative Research and Hypermedia. Ethnography for the Digital Age*. SAGE, 2005. Lorea, Carola Erika. "I Am Afraid of Telling You This, Lest You'd Be Scared Shitless": The Myth of Secrecy and the Study of the Esoteric Traditions of Bengal." *Religions* 9, no. 6 (2018): 172. <https://doi.org/10.3390/rel9060172>. Riffard, Pierre A. L'esotericisme. *Cos'è l'esotericismo?* Milano: BUR, 1996. Risam, Roopika, and Alex Gil. "Introduction: The Questions of Minimal Computing." *Digital Humanities Quarterly* 16 (2022).

MANTRAMS (ERC Synergy Grant ID 101118934)

Edda Sofie Schwarzkopf · Carola Lorea

data@mantrams.eu · [www.mantrams.eu](http://www.mantrams.eu) · [github.com/mantrams-erc](https://github.com/mantrams-erc) · mailing list: [groups.google.com/g/friends\\_of\\_mantrams](https://groups.google.com/g/friends_of_mantrams)





## Tübingen Specialized Information Services: Innovative infrastructures for specialized research

The three specialized information services based at Tübingen University Library – FID Theology with the Index Theologicus (IxTheo), FID Religious Studies with the Religious Studies Database (RelBib) and FID Criminology with the Criminology Database (KrimDok) – have established themselves as central hubs for their respective disciplines. Through national and international cooperation, the Tübingen FIDs combine technical innovation, high scholarly quality and consistent service orientation to create unique offerings for their research communities worldwide. The poster presentation highlights five strategic milestones that all three FIDs are pursuing together:

**5. Further development towards digital humanities and AI**

**4. FID databases as research analysis tools**

**3. Personalised services for individualised research services**

**1. Metadata and reference bibliography**

**2. Open Access publication services**



**1.** The three databases systematically record tens of thousands of new titles each year and make them available in professional search systems as comprehensive bibliographic references. Semi-automatic cataloguing procedures for electronic and printed journal articles ensure high-quality indexing of large quantities of material. The metadata is primarily hosted in the German library network but can be reused worldwide and also found via Google Scholar.

**2.** The Tübingen FIDs operates platforms for open access journals in their respective subjects. New additions include scholarly-led offerings for open access essay collections with professional design templates and technical support. Comprehensive secondary publication services have already made tens of thousands of articles available in open access, including copyright advice and complete publication lists. The self-archiving services are open to all researchers worldwide in the respective subjects.

**3.** Thousands of scientists have personal pages in the three databases, many of them with a complete scientific oeuvre and a high output of open access secondary publications. The personal pages enhance the visibility

of researchers and at the same time achieve a lasting integration into the respective subject infrastructure. In the future, authors will be able to help design and expand their own pages – an innovation that transforms the Tübingen FIDs from a pure research platform into a personalised research service.

**4.** The three databases are developing into instruments for analysing research trends and developments in their respective disciplines. The systematic collection of metadata over centuries enables scientific analysis of publication dynamics, thematic priorities and international research collaborations.

**5.** A needs analysis has confirmed the necessity of systematically recording DH/AI-based theological research. IxTheo is therefore one of the first specialized information services to establish its own collection for digital/computational humanities and digital theology, which documents projects, publications, research data and code. This is accompanied by regular 'DH Lunchtalks' with international partner networks, which intensify the professional exchange.

KRIMDOK RelBib

