

Wikibase and telephone castle wernigerode castle we

for RDM Relais and architecture Figure 1 and 1 a











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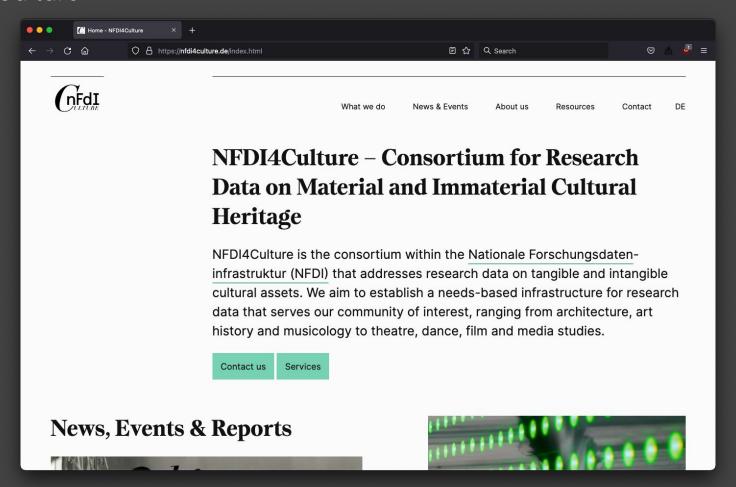






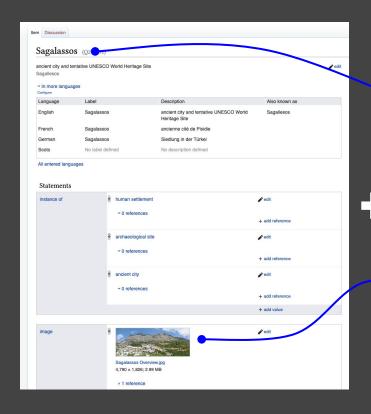


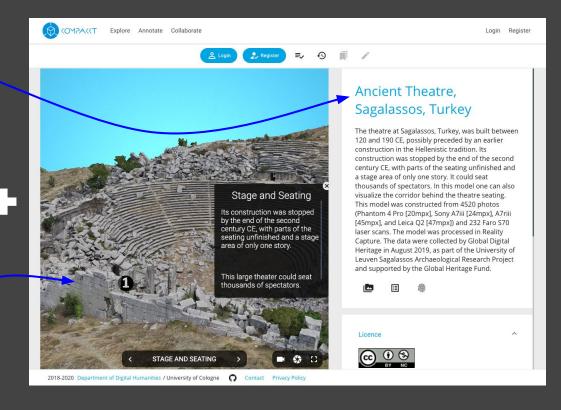
NFDI4Culture



Task area 1: Data Capture and Enrichment

MVP (minimum viable product): Connecting a Wikibase instance for LOD management with the Kompakkt viewer for 3D image preview and annotation; Data upload pipeline via OpenRefine;

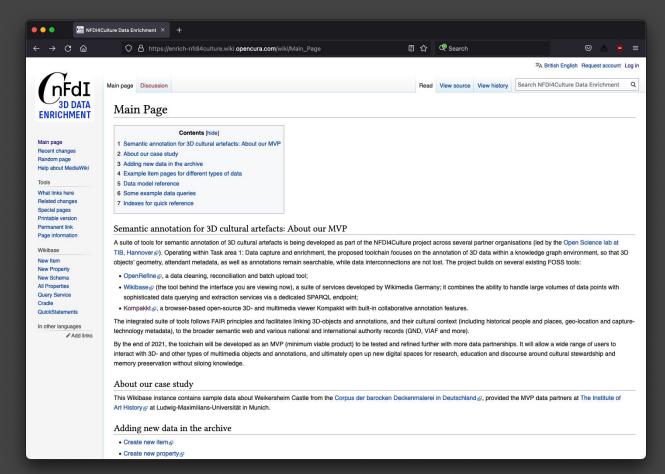




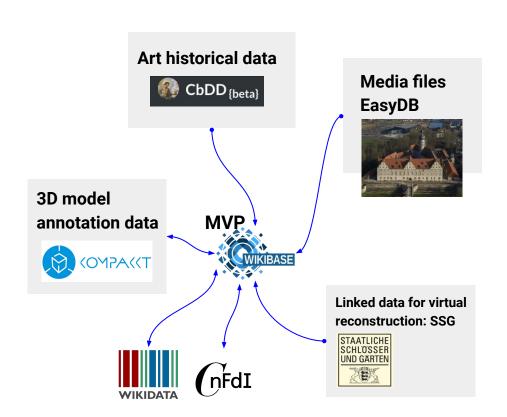
What is Wikibase?

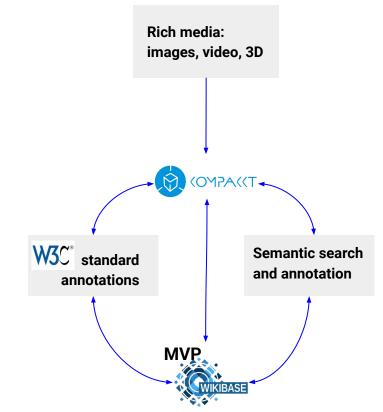
- FOSS maintained by Wikimedia Germany; Wikidata is the largest public instance of Wikibase
- Not a single tool, but an "umbrella" of services:
 - graphical user interface with collaborative and version control features;
 - triple store editable down to the triple statement level via the GUI;
 - SPARQL endpoint with GUI;
 - API for easy programmatic access;
 - wide range of script libraries, as well as user-friendly tools, for data import / export.
- Fulfills the need to provide a friendly environment to "LOD"-ify cultural data.
- Lowering the learning curve to working with LOD compared to other existing KG tools.

Example wikibase instance

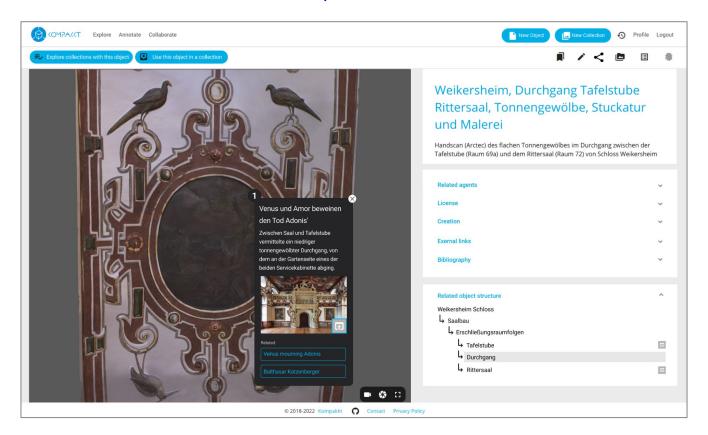


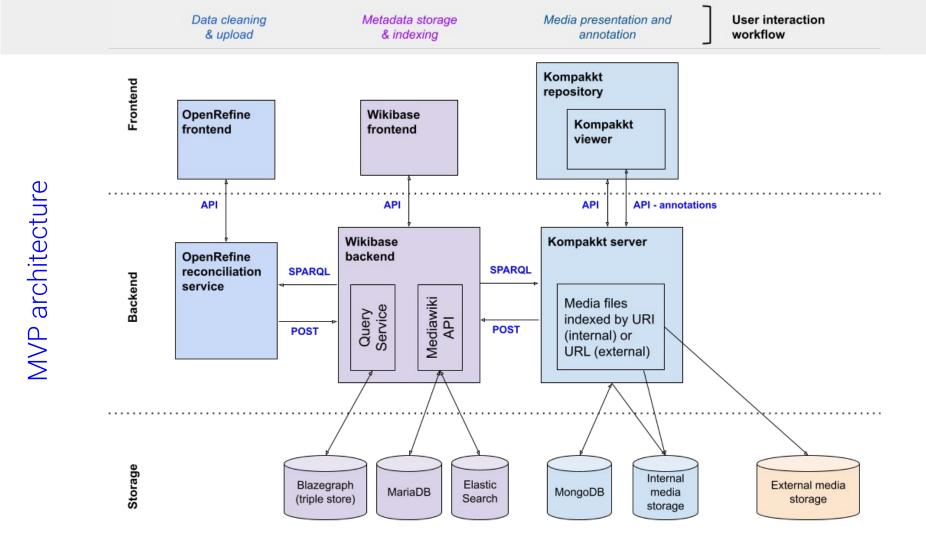
MVP for semantic enrichment of non-textual media: Wikibase + Kompakkt



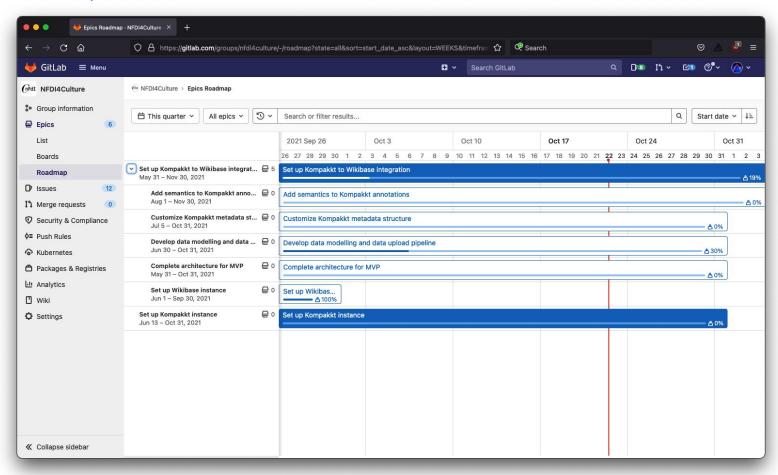


MVP for semantic enrichment of non-textual media: Illustration of annotation in Kompakkt



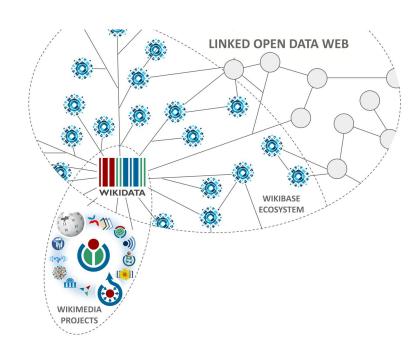


Open development - GitLab



Why Wikibase? A growing ecosystem in numbers:

- Wikibase for research: ~63 ongoing projects, and ~10 pre-pilot projects (confirmed data sourced from Wikimedia Germany)
- Wikibase in the wild: 148 individual user accounts and 510 instances on WBstack, WMDE's test cloud infrastructure.
- **Developer support within WMDE:** 14 FT staff
- Develop support in the community: 217 members in the developer Telegram group (182 contributors on <u>Github</u>)
- Official Wikimedia movement strategy: growing a decentralized Wikibase ecosystem



A view of the Wikimedia Linked Open Data web. Credit: Dan Shick (WMDE) CC-BY-SA 4.0

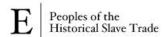
Wikibase Stakeholder Group

- NFDI4Culture staff are directly involved in the development, planning and growth of the international
 Wikibase Stakeholder Group, with 17 institutional members across Europe and North America so far.
- The Group is working on growing developer capacity in the ecosystem around Wikibase, commissioning and developing new Wikibase extensions, and building sustainable new funding models for Open Source Software Development.















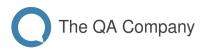


















Extending Wikibase in the context of NFDI Base Services

- We are participating in the cross-NFDI Section Metadata:
 Working Group Semantic Interoperability.
- This WG is focused on terminology services, ontology mappings and harmonization, and the use-cases for knowledge graph deployment.
- In this context, we are proposing the development of terminology services (for access & curation of ontologies & vocabularies); application profiles (which perform ontology harmonization via access to the terminology services); and lastly corresponding extensions towards Wikibase, so that standard, harmonized ontologies and vocabularies can be used directly in a user-friendly and already popular tool framework.
- We see a lot of potential for **cooperation** with the new **Base Services** consortium.

Thank you!

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