



Supporting Ancient Historical Linguistics with EpiLexO



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Context



Italian National project ItAnt: «Languages and cultures of ancient Italy. Historical Linguistics and Digital Methods» (2020-24) in collaboration with UniVe (A. Marinetti, L. Rigobianco, P. Solinas), UniFi (F. Murano, M. Ballerini, M. Zinzi, C. Toscano)

 Resources, services and software will be deposited in, hosted and run by CLARIN-IT



Project ItAnt:



- Languages of ancient Italy before linguistic Romanisation: e.g. oscan, venetic, neo-faliscan, celtic.
 - documentation time span: 8th century BC 1st century AD
 - Scarce and sparce attestations ->

• small number of texts (perhaps 2k all together), all in

epigraphic form

damaged supports



https://www.britishmuseum.org/collecti on/object/G_1867-0508-76

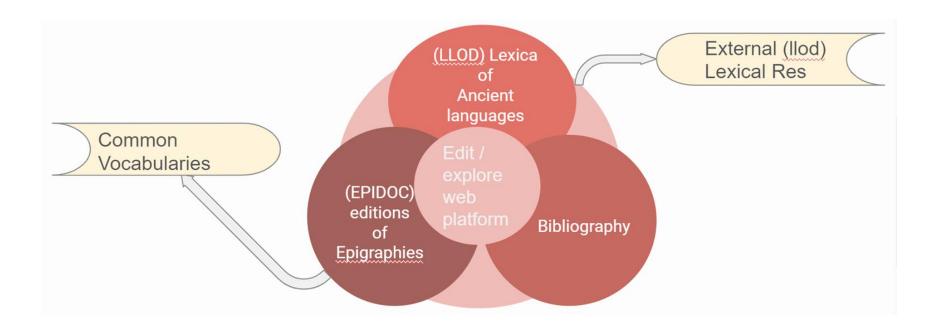


L. Rigobianco, Faliscan, (Venetic) A. L. Prosdocimi, Sui due nuovi Zaragoza, 2019, pp. 38-40. ciottoloni, in «Studi Etruschi» 46, 1978, pp.



Interlinked resource ecosystem







The challenge

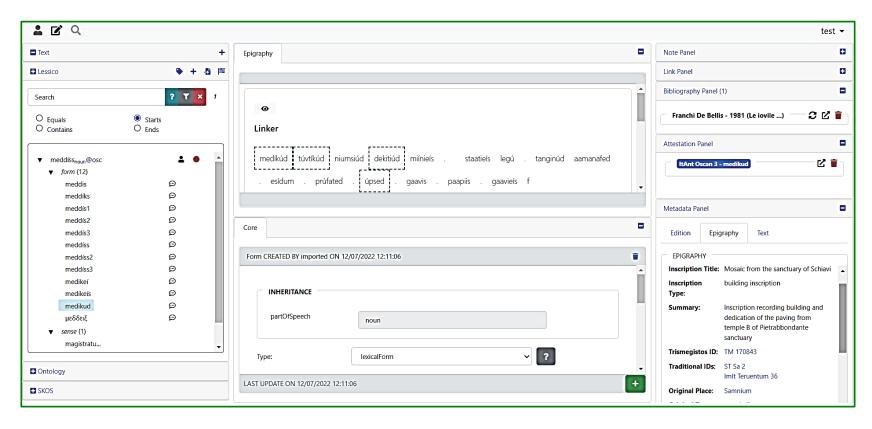


- Complement Digital Epigraphy with "explicit linguistic" knowledge for:
 - immaterial Cultural Heritage preservation,
 - wider open fruition of such knowledge,
 - support linguistic studies of languages of fragmentary attestation
 - preserve and make widely and openly accessible such linguistic knowledge
 - foster cross-disciplinary approaches
- First step:
 - a collaborative editing platform for creating lexicons and interlinking them with (textual) testimonies, bibliography, archeological metadata, other existing resources.



EpiLexO

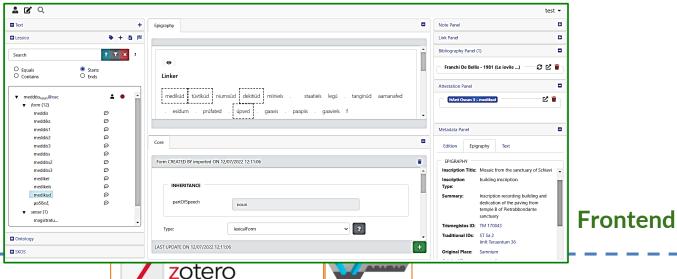






The EpiLexO system





Backend

LexO-server:

services for lexica & ontologies + bibliographic references

CASH-server:

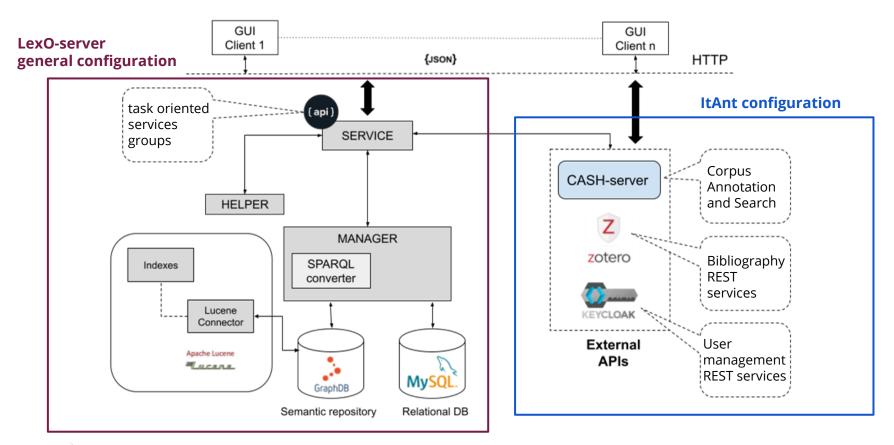
KEYCLOAK

services for file, texts, & annotations management



The architecture

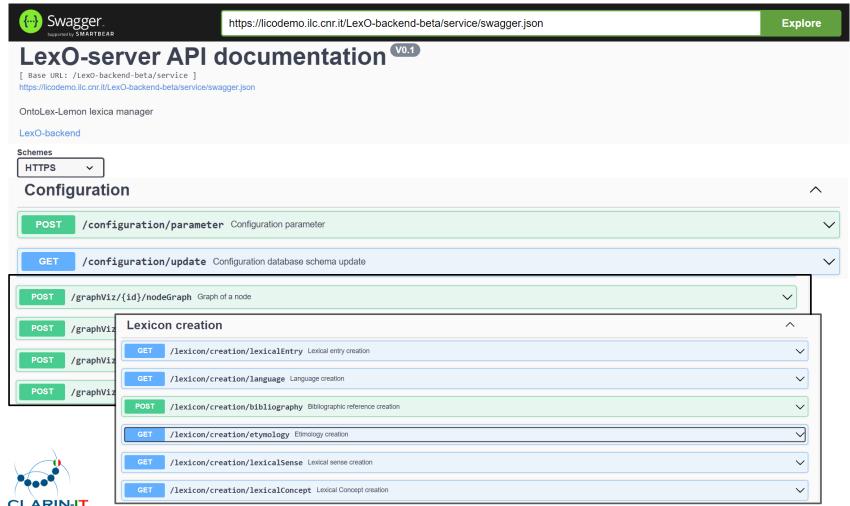






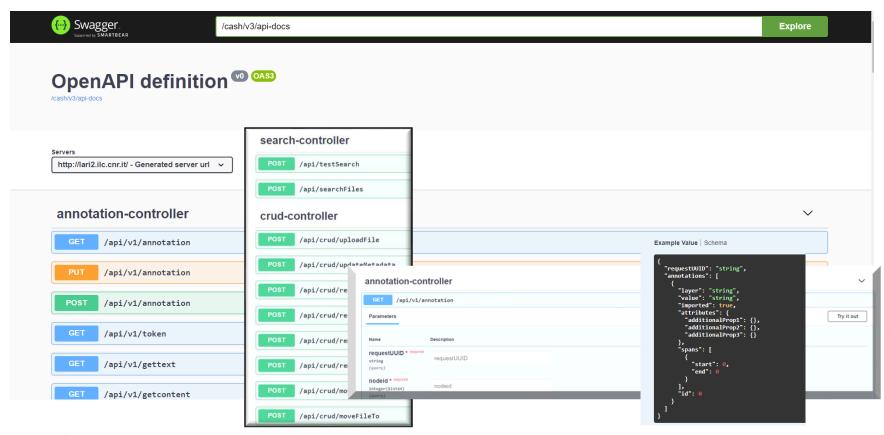
The LexO-server





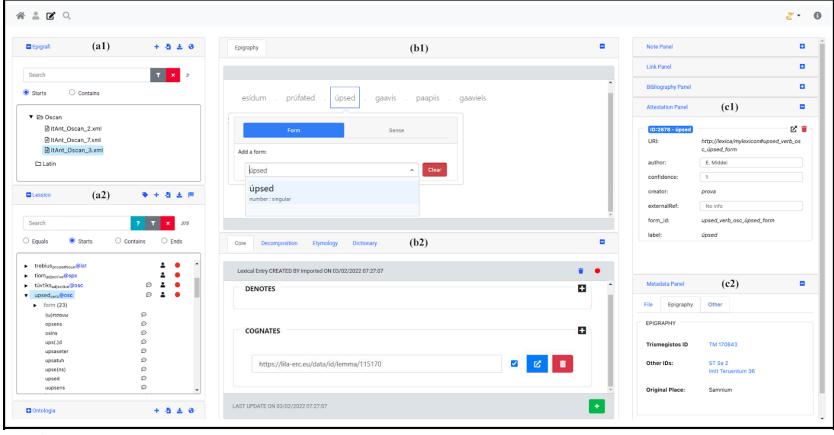
The CASH-server







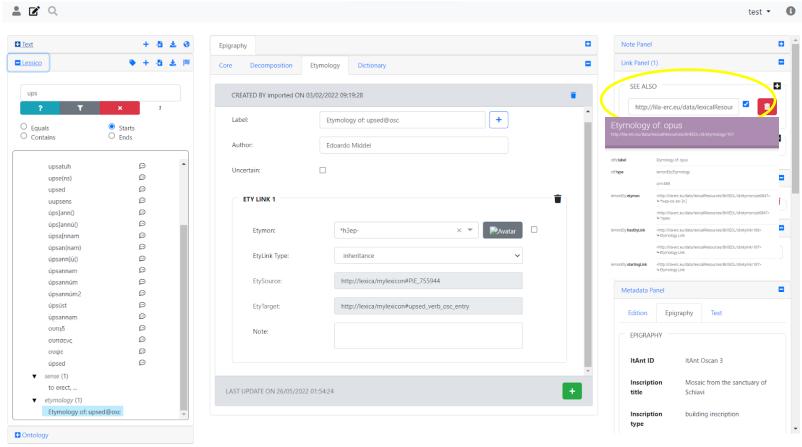
Attestations: linking to text and bib





Linking to external resources

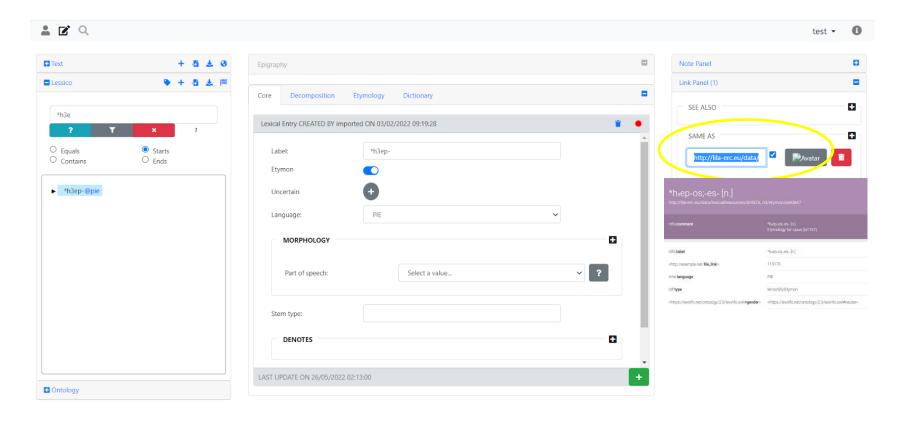






Linking to external resources

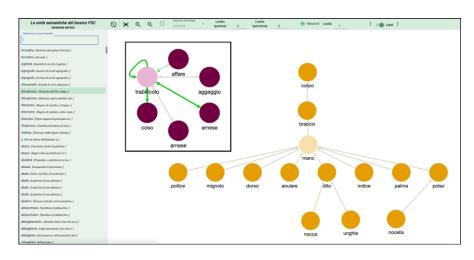






Other applications using LexO services





(Colombo et al., 2022)

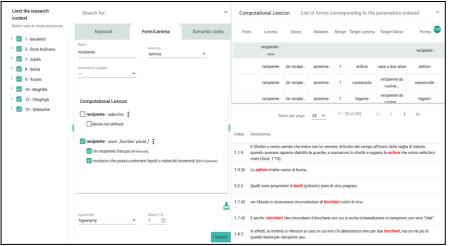
experimental tool for allowing the navigation of the lexical senses of a lexicon

demo available at https://klab.ilc.cnr.it/lexiconGraph/

(Giovannetti et al., 2021)

tool to access a text on a linguistic and conceptual basis

demo available at https://klab.ilc.cnr.it/talmudSearch/



Future work



- cross-resource, multi-level search
- develop the exploration platform
- download and export, esp. in LLOD compatible formats
- extension to different use-cases
- Assessments and enhancements to make a full-fledged CLARIN-IT service





Thank you for your attention!

Further details:

https://github.com/DigItAnt, https://www.prin-italia-antica.unifi.it

or mailto:valeria.quochi@ilc.cnr.it

Short video demo: https://youtu.be/lsdy9piqy5E

To test the platform: https://lari2.ilc.cnr.it/LexO-angular/lexicon

(est, test22)

