HisArc-RDF: prototyping an operating chain, related to the Linked Open Data, on structurally and semantically heterogeneous archaeological data sets

The consortium gets together Archéorient (UMR 5133), Larhra (UMR 5190), Maison de l’Orient et de la Méditerranée (FR 3747), HiSoMA, the platform Spatio (national network Maisons des sciences de l’Homme),  ERIC lab (data intelligence), Bibliographic Agency for Higher Education (Abes) and Archéodunum (private company of preventive archaeology).

The project aims to share and reuse archaeological data, by articulating their description on semantic web repositories and standards.

The project will test four data sets, samples of which will be determined to cover different archaeological themes, both in terms of vocabulary and data modelling: hydraulic structure, epigraphic data, ceramic and building structures. To achieve that, we want to reduce veracity concerns on descriptive vocabularies (from artefacts description to period names and limits) so that different datasets can be addressed and compared through concepts (instead of words) at a data level. For that purpose, we will create micro-thesauri (at sub-disciplinary level), then vocabulary and data model will be aligned in parallel with the semantic web repositories and CIDOC CRM to build a structured description of database fields as well as database variables. To address this, the project plans to interconnect OpenTheso (thesaurus management tool), OntoME (ontology management environment) and IdRef (database for authority records).

Finally, the project plans to bring together, through workshops, a large network of actors in order to disseminate good practices experienced by LOD implementation.

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OntoME. Ontology management environment, is an online application developed by the LARHRA Digital history research team that offers research projects the ability to manage their ontologies (data models) in a collaborative and open way. OntoME is a key element in the Data for History consortium with the aim of improving geohistorical data interoperability in the semantic web. https://ontome.dataforhistory.org/

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