'La Syntaxe du codex' and TEI. Models, mappings and visualization tools 10.5.2018 Hamburg

Pietro Maria Liuzzo, Hiob Ludolf Center for Ethiopian Studies, Universität Hamburg

This presentation is focused on one possible way to produce Linked Open Data for a specific kind of information about manuscripts. Starting from a brief description of some features of the *Beta* maṣāḥəft: Manuscripts of Ethiopia and Eritrea (Schriftkultur des christlichen Äthiopiens: eine multimediale Forschungsumgebung), a long term project funded within the framework of the Academies' Programme (coordinated by the Union of the German Academies of Sciences and Humanities) under survey of the Akademie der Wissenschaften in Hamburg, it focuses on a specific set of needs within the project, namely those of an event oriented representation of the strata in the history of a manuscript.

The presentation outlines the decisions taken for the workflow implemented for the project which involves

- specific encoding in TEI,
- the production of a subset of RDF triples generated to represent the hypothesis generated for the reconstruction of the history of the manuscript according to a specific ontology designed to support a specific methodology for the study of manuscripts, namely the one described in the book *La Syntaxe du Codex*. *Essai de codicologie structurale*.
- The visualizations set in place to support the cataloguer in using the methodology

The presentation outlines the specificities of the TEI encoding of both the observations and the hypothesis of identification of meaningful units and of the transformations undergone by the manuscript. Offering 4 examples of the workflow from encoding to graph representation, the presentation shows also how RDF and Linked Open Data can support a distributed and collaborative work.

The workflow and the pieces of script put in place for the project support the use and the heuristic potential of the solid and theoretically grounded methodology of study as presented by its authors in *La Synthaxe* and presents only the way in which, within the project '*Beta maṣāḥəft, Manuscripts of Ethiopia and Eritrea*', Linked Open Data is used to support the exploitation of this methodology for research purposes in a digital cataloguing and research environment.

The RDF triples produced are used in the project not just for the representation of the results of the research process but along the research process and to support different collaborative interests together with the core TEI encoding of the data. Some example queries are also offered to show the potential of the RDF representation.

The slides are not annotated and not self explanatory.