

Digital Libraries and Formalization of Knowledge

More Info

EU funded Projects:

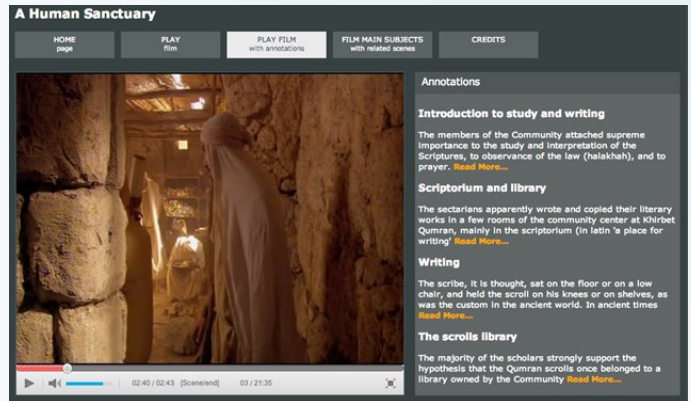
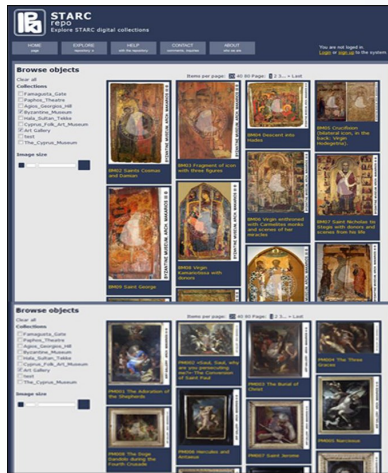
THE DEAD-SEA SCROLLS ONLINE, ATHENA-PLUS, EAGLE, ARCHAEO-LANDSCAPES, ARIADNE.

Key Partners:

- Israel Museum
- Makarios III Foundation
- Europeana Foundation
- Italian Ministry of Culture
- Foundation for Research and Technology Hellas

Selected Publications:

Damnjanovic, U., Hermon, S., 2012, Generating Content for Digital Libraries Using an Interactive Content Management System. Theory and Practice of Digital Libraries, Lecture Notes in Computer Science Volume 7489, pp 474-479.



Towards a European Cultural Knowledge – based Society

One of the major challenges of the 21st century is to create a knowledge-based society, across its sectors and scientific disciplines. As such, digital libraries play a major role in answering this goal. From a scientific perspective, main challenges are the formalization of cross-domain knowledge, integration of heterogeneous data and creation of intelligent interfaces with digital content, which will stimulate a learning process when interacting with it. Consequently, our team focuses on the definition of ontology for Cultural Heritage, digital repositories to store different types of digital data and development of digital tools for interaction with data.

In particular, our research focuses on:

- Enrichment of CIDOC-CRM (ISO standard on description of cultural heritage objects), in order to refine terms, add extensions and integrate emerging topics, such as 3D documentation or virtual museums.
- Formally representing the entire reasoning process of the archaeological research in order to increase transparency and reliability of research outcomes.
- Definition and implementation of a semantic reasoning process in archaeology and related fields.

