Archaeological Research Data Publication through SDIs: IDEARQ

DATASETS

IDEARQ is a SDI developed to store, manage and distribute archaeological datasets produced by research projects. In its initial phase, three datasets have been selected:

- Rock Art Images
- Radiocarbon Analysis
- Archaeometallurgy

DATA MODEL

The main goal is to provide OGC-compliant WMS on archaeological thematic data that can be linked to Protected Sites included in the corresponding data specification. Data interoperability is enforced through the use of the Cultural Heritage Application Schema, a proposal that tries to accommodate cultural heritage data within the INSPIRE Protected Sites data specification.

IMPLEMENTATION

The data model has been implemented in a relational geodatabase (PostgreSQL – PostGIS). CSIC users have straightforward access via GIS desktop software to add features and perform different tasks. Web Map Services are offered through a GeoServer PostGIS connection. The database will be reachable through a web viewer.

WMS SERVICES

6 different WMS will offer basic information about the three thematic datasets:

- idemp: summary of all the datasets grouped by different values
- c14: summary of all the main information related to radiocarbon dates
- metal: summary of the main elementary analysis results on archaeological items
- cpr: main data of Levantine Rock Art images
- isotop: enumeration of lead isotopes analysis performed over archaeological items
- isotop_min: enumeration of lead isotopes analysis performed over samples taken in different places

A Webmap will enable interaction with the database to establish map filters based on any of the data features and retrieve the original information about radiocarbon dates, metallurgy analysis and Levantine rock art paintings.