

Digitizing railway historical and heritage data.

Outlining possible guidelines for future inventory and research in Andalusia

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ABSTRACT

Railway heritage encompasses a wide range of elements and relations, both tangible and intangible, which demand a series of actions: from the identification, documentation and analysis of the assets to their treatment and intervention.

Documenting, analysing and managing such a large volume of assets and information is extremely difficult with traditional tools and methods, and becomes even more challenging when we consider the different disciplines involved. It is of the utmost importance to ensure that this documentation is visible and to recognise its tangibility because both things (information and documentation) are sources of knowledge and play a vital role in preserving and promoting the memory of industrial heritage

OBJECTIVES

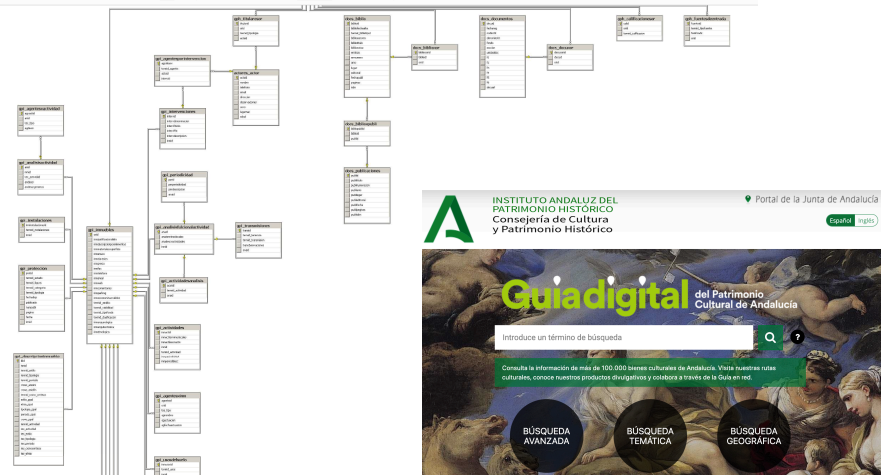
- OB1.** Identify the particular needs and issues for documenting railway heritage.
- OB2.** Create an open, easily accessible, interoperable and reusable data model system. For this, we will take into account FAIR data principles and the particularities of railway heritage.
- OB3.** Generate analysis, models and new knowledge about the railway heritage and its witnesses.
- OB4.** Communicate and disseminate the methodology and results of the project.

METODOLOGY

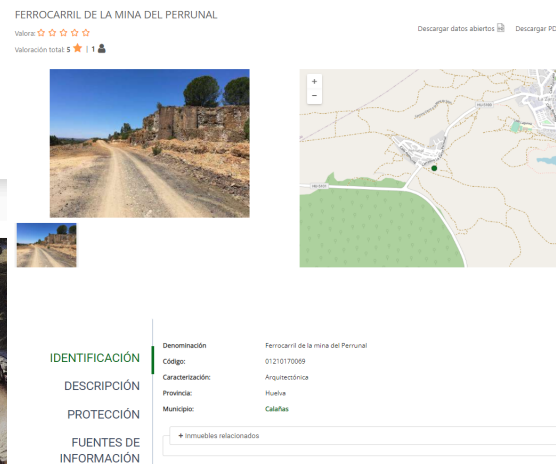
- M1.** Analyse the current documentation system (MOSAICO and Digital Guide) and make a survey of the existing records.
- M2.** Study and select conceptual models, standards and controlled vocabulary in order to register heritage information.
- M3.** Design the ontology and data model.
- M4.** Test de model. Input of a small amount of data.
- M5.** Massive data entry.
- M6.** Assessment and adjustment.
- M7.** Publish the model and results in open access and interoperable format (e.g. RDF and CSV).

DISCUSSION

- Geontities. In Railway we will have polygon, line, polyline and points. Entities need to have temporal properties that could change (atributes and spatial properties -shape could change over time).
- The use of graph model insted of relational DBMS allow us more flexibility but also encompass more difficulty when it comes to convert it into GIS format and its visualisation.
- CIDOC does not cover all the needs of railwaydo cumentation → posible solution: use the CIDOC as the main pillar and create suplementary clases and subclasses



Data model of MOSAICO [immovable heritage].

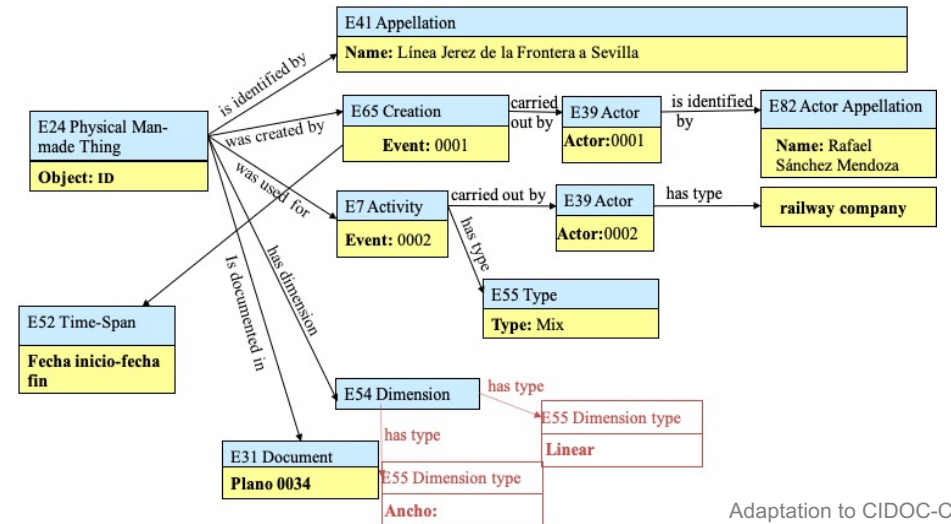


FERROCARRIL DE LA MINA DEL PERRUNAL
Valores: ☆☆☆☆
Valoración total: 5 ☆ 1 👤

Denominación: Ferrocarril de la mina del Perrunal
Código: 0121017009
Caracterización: Arquitectónica
Provincia: Huelva
Municipio: Cañiñas

IDENTIFICACIÓN
DESCRIPCIÓN
PROTECCIÓN
FUENTES DE INFORMACIÓN

Digital Guide of Andalusian Cultural Heritage.



Adaptation to CIDOC-CRM.