
Open Data, Global Digitization and Cultural Heritage

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Résumé

GDH is a new not-for-profit, private research and education organization dedicated to documenting, monitoring, and preserving our global cultural heritage and natural heritage. We use digital visualization, 3D virtualization, geospatial informatics, and open data to provide digital data and 3D models to governments, regional institutions, museums, local scholars, and the public.

A key element of our mission is the democratization of science - we make all data freely available to the world in support of cultural heritage, heritage management, education, public interest, scientific research, and the digital humanities.

Over the last two years, more than 30 monuments and sites have been digitally documented in Spain. Using terrestrial and UAV photogrammetry, high resolution laser scanners, and photography, we have collected over 40 terabytes of data and produced an extensive suite of outputs. Spanning from the Bronze Age to the 19th Century, and including everything from Neolithic caves to fortifications, public plazas, and bull rings, this project includes nearly every type of data and acquisition technique required for the modern documentation of cultural heritage.

In this paper we will use three sites to illustrate our work: an Iberian archaeological site, Cerro de las Cabezas, in Valdepeñas, in the region of Castilla-La Mancha ; a Bronze Age well and granary, the Motilla del Azuer, in Daimiel, in the region of Castilla-La Mancha ; a Neolithic painted cave, the Cueva de la Serreta, in Cieza, in the region of Murcia.

We will discuss our bumps along the road and successes on how we digitized the sites, processed the data acquired, produced documentation for the sites' researchers and museums, what it meant for those sites, and how we made everything accessible to the public.

Mots-Clés: Digital cultural heritage, Open Data, 3D digitization, Public Science

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