

EUreka3D: supporting the digital transformation of the cultural heritage sector

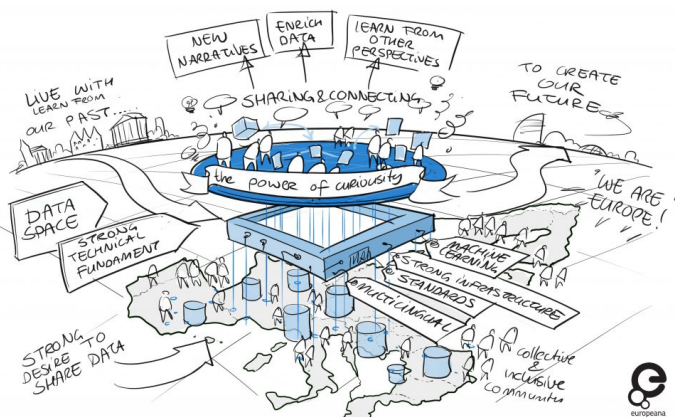


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The EUreka3D project, co-funded by the Digital Europe Programme of the European Union, addresses the growing need of **enabling the digital transformation of the Cultural Heritage (CH) sector**, in line with and complementing the scopes of the common European Data Space for Cultural Heritage. The digital transformation comes from a decades-long process of basing museum (and also in general Galleries, Libraries, Archives and Museums-GLAM) operations on solid information-sharing infrastructures, forcing an overall rethinking of the underlying work processes and business models. However, not all institutions have achieved the same level of maturity towards the new digital environment they need to embrace, and despite the covid19 crisis which acted as an accelerator of the process for nearly everyone in the sector, much work still needs to be done especially for smaller Cultural Heritage Institutions (CHIs).



image from European Commission website

The vision of a [European Data Space for Cultural Heritage](#) as a participatory playfield for all the actors involved (cultural institutions, technology partners, multidisciplinary experts, creative industry, scientific researchers, end-users) moves in the direction of modernizing workflows and digitization capacity of the cultural heritage sector at large, and requires CHIs of any size to enter the challenge of **advanced digitization** (especially 3D digitization in high-quality), **holistic representation of CH information** and **re-use** approaches. The existing services of the [Europeana.eu](#) platform is a good starting point to support sharing and re-use, but an integration with more advanced, powerful and safe services is needed to answer to the demand of small institutions, as well as modern workflows and increased digital capacity are requested on the side of CHIs.

In this light, EUreka3D project focuses on improving the digital capacity of the cultural sector by offering a **knowledge centre and a service and resource hub**, based on a smart technical infrastructure whose services are registered on the European Open Science Cloud (EOSC). CHIs can access a virtual space of knowledge, can use storage and computing resources to manage their 2D and also 3D assets. Following the [Recommendation 1970/2021](#) issued to Member States by EC, CHIs are in facts also called to improve efforts in meaningful 3D digitization, which they may not be fully acquainted with yet. A **cloud-based and safely-authenticated environment** as developed by EUreka3D will make it easier and more accessible for CHIs to create, manage, archive, preserve and

share digitised objects, with a particular focus on 3D digitization and knowledge modelling for the semantically enriched 3D records.



3D model of Asinou church, courtesy of Cyprus University of Technology

The project will engage a variety of CHIs in a **piloting action** that will set-up and test dedicated cloud-based services for the management and preservation of cultural contents in a safe and IP-mindful environment. The pilot will also generate **high-quality 3D digitization** of selected items and their related para-/metadata ready to be harvested into Europeana, and perform their **aggregation and publication online**, also to provide exemplification of few cases for use and re-use in unique areas such as Education.

On top of that, the project will focus on the **capacity building of the human resources** of the museums and CHIs and develop **unique training materials** for the 3D digitisation, processing, preserving on the cloud and harvesting in Europeana, as part of a network effort, and by offering dedicated consultancy, webinars and training. Impact assessment and mindful sustainability planning will complement the effort of the project in enabling a long-lasting contribution to the digital transformation of the sector.