Paper showcasing EUreka3D to be published on FGCS journal

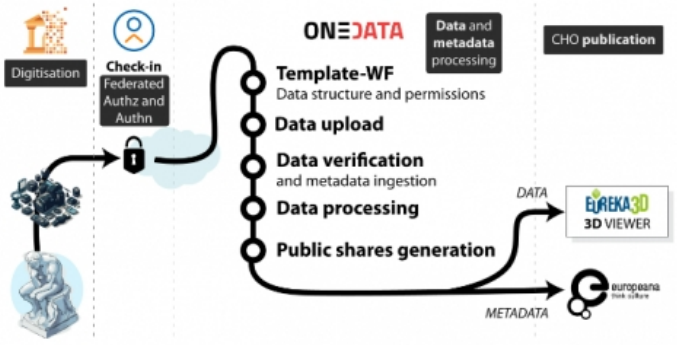

Fig. 2. Generic workflow processing of CHO processing.

The Lambousa Fishing Boat case and the data managing within the scope of EUreka3D project was presented by Micha? Orzechowski at the 15th International Conference on Parallel Processing & Applied Mathematics.

Following the presentation, Future Generation Computer Systems journal invited the authors of the presentation to write a paper. FGCS aims to lead the way in advances in distributed systems, collaborative environments, high performance and high performance computing, Big Data on such infrastructures as grids, clouds and the Internet of Things.

Title: Cultural Heritage 3D Object Management with Integrated Automation Workflows

Authors: Written by Micha? Orzechowski, ?ukasz Opio?a, Ignacio Lamata Martínez, Marinos Ioannides, Panayiotis N. Panayiotou, Renata G. S?ota, ?ukasz Dutka and Jacek Kitowski

Abstract: The complexity of high-quality 3D digitised cultural heritage objects creates challenges for existing data management systems as they need to develop metadata management and processing capabilities to provide semantic insight into the interconnectivity of data that constitute cultural heritage objects. To address these challenges, we propose a data and metadata management system, together with the federated authentication and authorisation mechanism, and an integrated system for designing and executing automated workflows that facilitate the processing of both data and metadata. The solution is evaluated with a 3D digitised cultural object of Lambousa Fishing Boat and presents the complete process from data upload to publication.

Download the paper at this link.