

3D HSS Consortium

Creation, scientific use and archiving of 3D data for Humanities and Social Sciences



Members of 3D Consortium – coordinator Archeovision's lab

Presentation

The 3D Consortium, accredited in 2014 by Huma-Num, brings together eleven partners working in the field of archaeology and cultural heritage and who already have experience of using 3D technologies and producing 3D models in the scientific context of Humanities and Social Sciences.

From 2014 to 2017, the 3D Consortium's activities and research results focused on the elaboration of a 3D glossary, open source tools development (archiving software and 3D viewer) and also production of a white paper which analyses the requirements for 3D in HSS.

For the next four years (2018-2021), the 3D consortium will focus on developing synergies between all HSS disciplines to promote transversal approaches and increase the connection with international networks working on the same field.

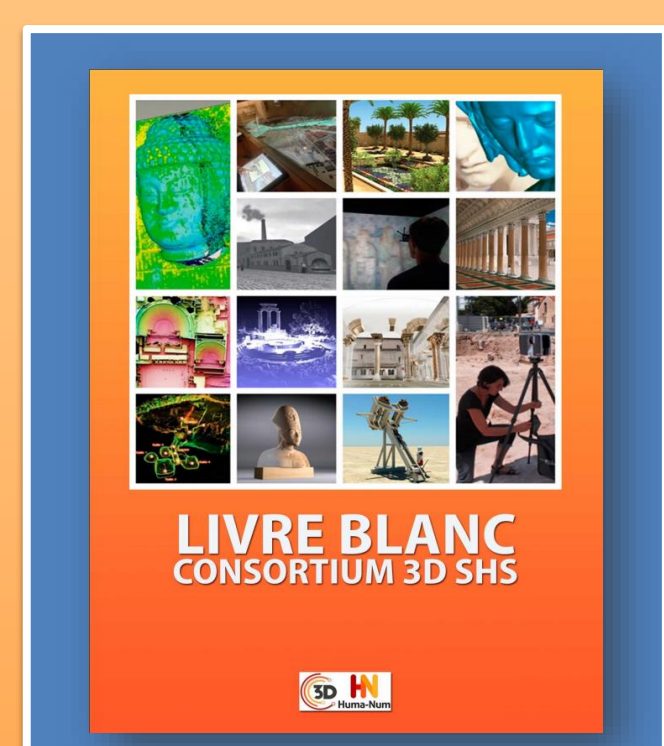
Deliverables 2014-2017



3D portal

Catalog of 3D models produced in a scientific context in Humanities and Social Sciences.

<http://portail3d.huma-num.fr/>



White Paper

Practical guidance to the long-term archiving 3D project, 3D softwares inventory, 3D glossary, specifications required for a project with 3D models of Cultural Heritage.

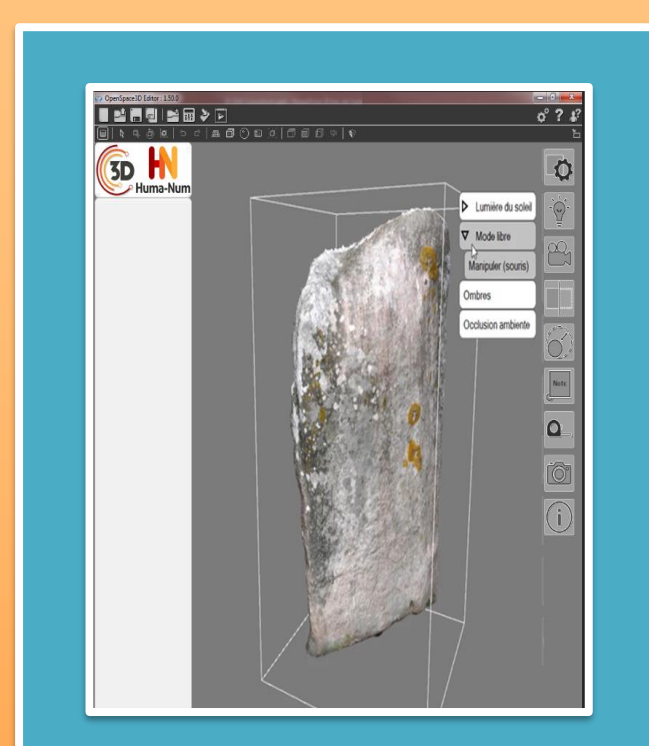
<https://hal.archives-ouvertes.fr/hal-01683842>



Archive software

Archive generation from a 3D project, suitable with the archiving service of CINES. (National Computing Center for Higher Education)

<http://altag3d.huma-num.fr/>



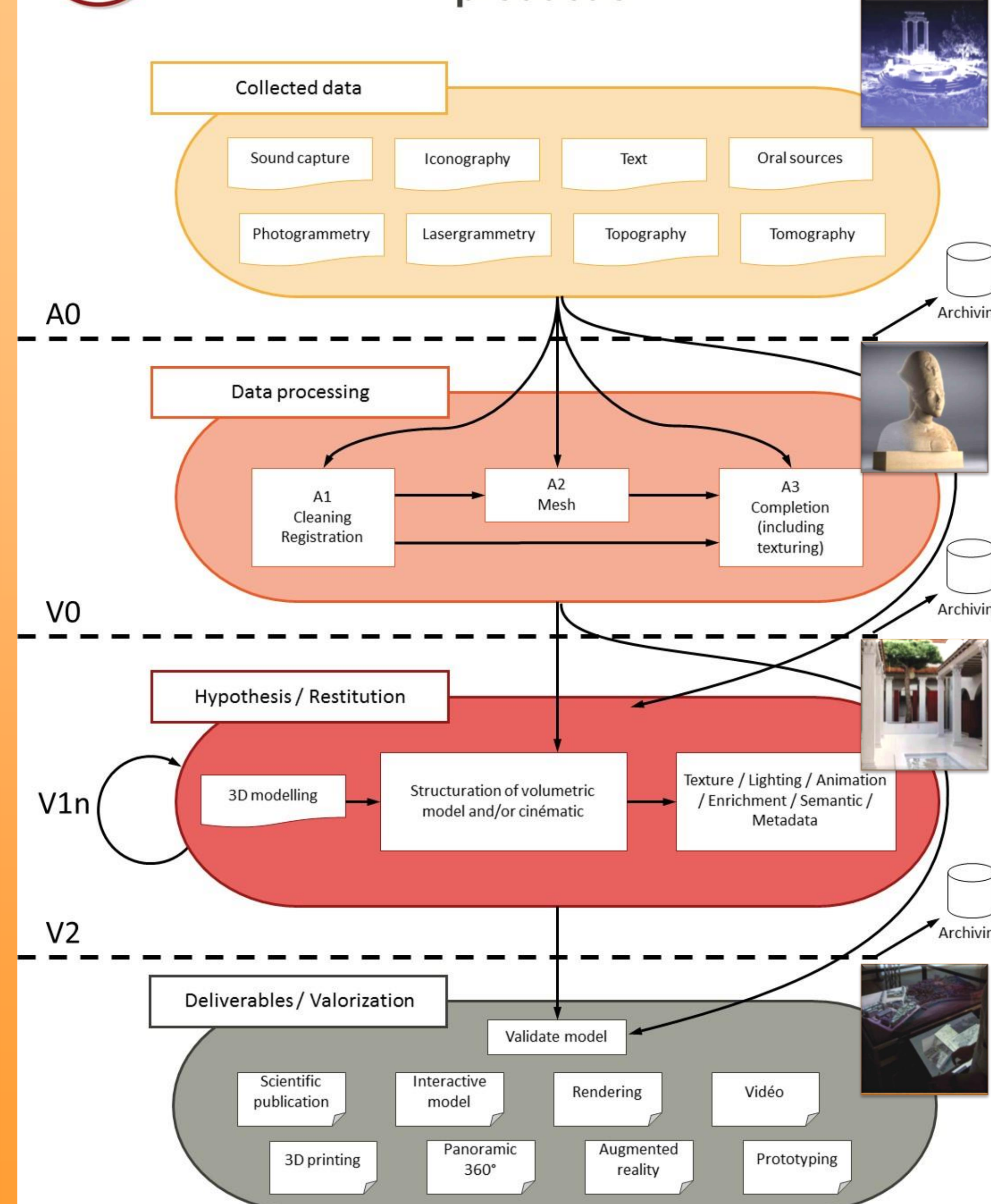
3D viewer

An open source software for actors of Cultural Heritage with an easy navigation to visualise, manipulate and annotate 3D models.

<http://www.openspace3d.com/>



Sequential graph of 3D data production



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Research aim 2018-2021

Technology – R&D

- Inventory of 3D production (hardwares, softwares, methodology)
- Identification and development of solutions for the data analysis, visualization and archiving.
- Organization of Workshops about semantic enrichment, integration of multiple scales of representation, and virtual reality/mixed reality.

Development and transfer of knowledges

- Identify heuristic contributions related to the use of 3D in Humanities and Social Sciences.
- How do 3D acquisition tools and 3D data restitution generate new scientific discoveries?
- What is the impact of 3D in the comprehension of studied objects?
- What is the impact of 3D on data preservation?

Data Lifecycle and Interoperability

- This axe will focus on different aspects of data management and data life cycle.
- Proposing metadata set to structure 3D models.
- Commissioning of the 3D Conservatory, managing 3D data of Humanities and Social Sciences.
- Thinking about the status and property rights of the digital object.

Humanities and Social Sciences meeting

- 3D HSS meeting to develop synergies between all humanities and social sciences disciplines to promote transversal approach and increase the connection with international networks.
- Extension of 3D Consortium partnership to other HSS communities (geographers, linguists, visual artists, musicologists, urban planners, educational scientists, psychologists,...etc.).

BLOG

<https://shs3d.hypotheses.org/>

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