



HAL
open science

Metadata Schema for 3D Data Publication and Archiving

Valentin Grimaud, Sylvie Eusèbe, Sarah Tournon, Mehdi Chayani, Matthieu Quantin, Loic Jeanson, Olivier Marlet, Sylvain Rassat, Xavier Granier

► **To cite this version:**

Valentin Grimaud, Sylvie Eusèbe, Sarah Tournon, Mehdi Chayani, Matthieu Quantin, et al.. Metadata Schema for 3D Data Publication and Archiving. DARIAH Annual Event 2023: Cultural Heritage Data as Humanities Research Data?, Jun 2023, Budapest, Hungary. hal-04115874

HAL Id: hal-04115874

<https://hal.science/hal-04115874v1>

Submitted on 2 Jun 2023

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

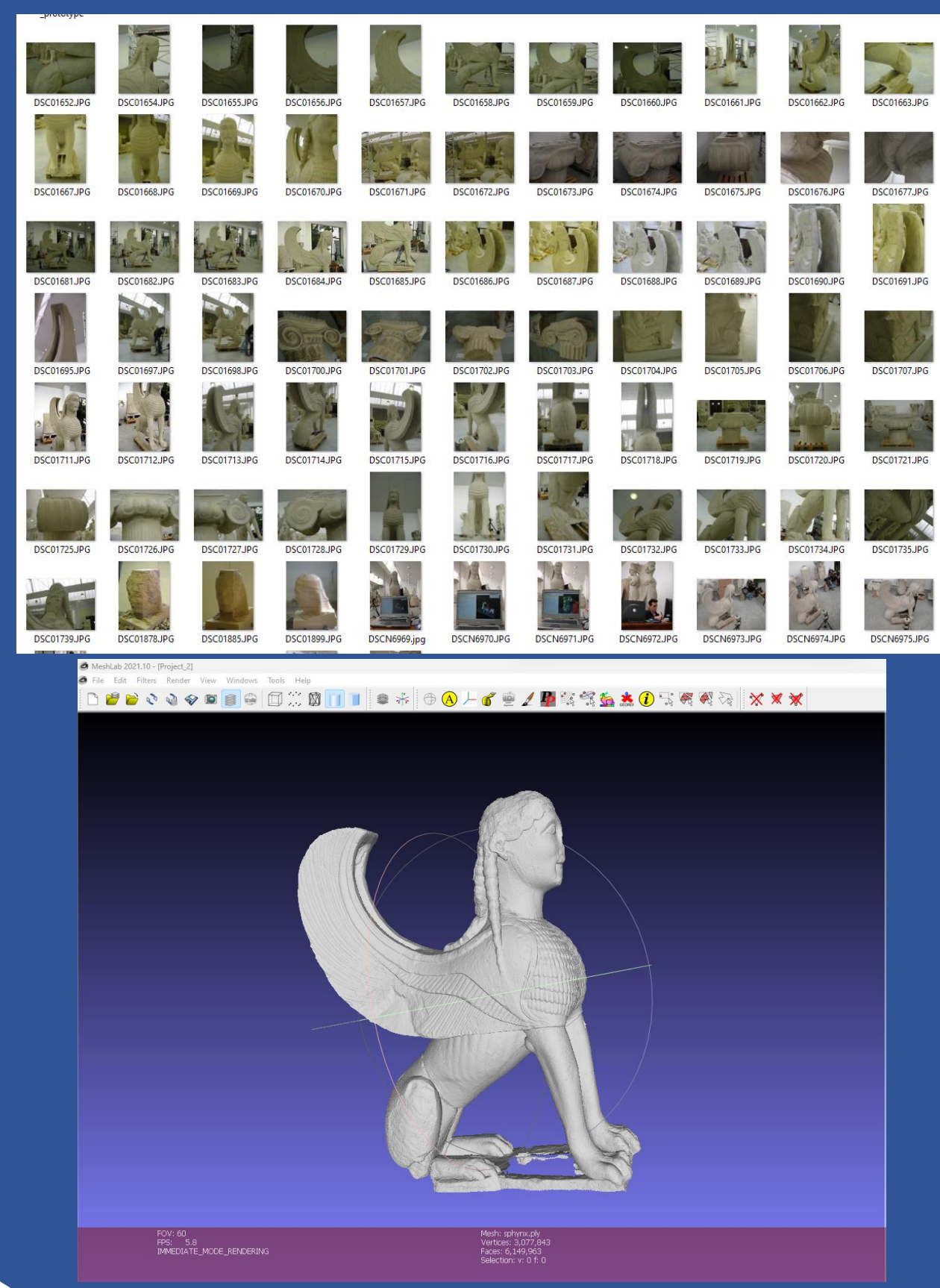
L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Distributed under a Creative Commons Attribution 4.0 International License

Metadata Schema for 3D Data Publication and Archiving

Objective: document the resources of a 3D deposit in the National 3D Data Repository



- Sources: e.g., photographs
100 pictures (.JPG, .RAW, ...)
- Processus: e.g., photogrammetry
.PSX files
- Results: e.g., 3D mesh
.PLY File
- Scientific informations
- Deposit informations

Sphinx des Naxiens à Delphes

Nature of resource: deposit

Date of deposit: 2005-01

Deposit creator: Sarah Tournon-Vallente

Depositing entity: Archeovision

3D Virtual Object(s): 1

Number of files: 0

Site name (free text): Delphes

Object owner: Musée archéologique de Delphes (Grèce)

Archaeological description: Le sphinx fut découvert lors des grandes fouilles de la fin du XIXe siècle, il fut vraisemblablement offert par les Naxiens. Il s'agit d'une des plus anciennes statues monumentales découvertes à Delphes, entièrement en marbre de Naxos.

Project date: 2005

Min. archaeological date: -580

Max. archaeological date: -570

Period of time (free text): époque archaïque

Silent Partner: Aulonius

Scientific and technical objectives: Prototypage du sphinx des Naxiens à Delphes en vue de son installation au cœur de l'Archeopôle d'Aquitaine, lors de son inauguration (2005). Cette réplique fut déplacée en 2017 sur l'esplanade des Antilles à Pessac.

Research program: Sans

Place of discovery (free text): Delphes

Inventory number: 380,1050

Reference of HAL or any other open publication: hal-01292469

Nature of the deposit: ACQUISITION

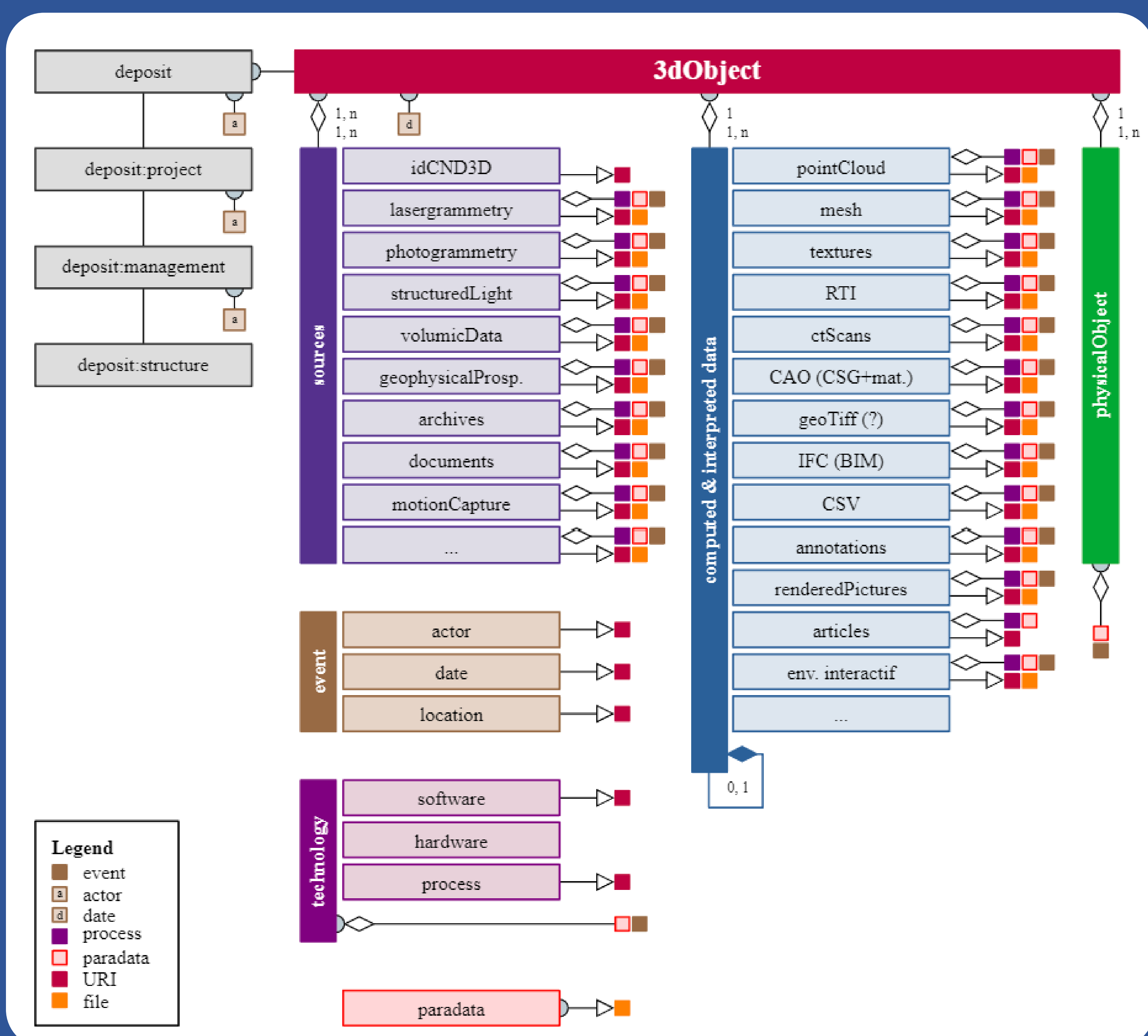
Period: Antiquité

Citation: Loïc Espinasse, Jacques des Courtils, Pierre Yves Saillant (2005). Sphinx des Naxiens à Delphes, Archeovision. [10.34969/3DND3D/506201.d.2005](https://doi.org/10.34969/3DND3D/506201.d.2005)

Content of deposit (1 3D Virtual Object)

3D Virtual Object: Sphinx des Naxiens à Delphes

Objectives and mains goals for the new metadata scheme



Goals

- Initially focused on archaeology and evolving to **incorporate different disciplines.**
- **Simplify** the general understanding for depositors

Approach

- Divided into **generic and specific domain** such as 3D restitutions or scans of "physical object" in archaeology.
- **Simplify the metadata collection** (reduce essential information and allow multiple individuals to provide metadata)
- Consideration of the **diversity of 3D technologies and data**
- Compatibility with existing metadata schemes

Mapping to CIDOC CRM, Dublin Core, EDM (in progress), ...



Valentin Grimaud¹, Sylvie Eusebe², Sarah Tournon-Valiente³, Mehdi Chayani³, Matthieu Quantin⁵, Loic Jeanson⁶, Olivier Marlet⁷, Sylvain Rassat⁸, Xavier Granier⁴

¹LARA, CReAAH; ²INRAP; ³Archéosciences Bordeaux; ⁴IOGS (Institut d'Optique Graduate School); ⁵LS2N; ⁶INHA; ⁷CITERES / MSH VdL; ⁸LAMPEA