

Decoding Digital Curation for Cultural Heritage: A Survey and Extended Proposal

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Abstract:

Digital curation in cultural heritage (CH) organizations is becoming more and more established as a practice as empirical research into tools, techniques, skills, standards and best practices in particular contexts emerge. This research is twofold:

- formulates a definition of digital curation and the involved activities with the roles and responsibilities of the digital curators
- unpacks the notions of semantic encoding and argues for the importance of data lifecycle and metadata for digital curation.

What is Digital Curation (Shi et al., 2016)

It is the process of overcoming the challenges raised by the

- selection
- preservation,
- maintenance,
- collection,
- archiving

of digital assets of cultural heritage for present and future use.

Design tools and Technologies For CH

- **Data Acquisition and Selection:** Wireless Sensor Networks (WSNs), Electrical Resistivity Tomography (ERT), 3D laser scanning, Spectral Imaging, Digital Photogrammetry etc...
- **Data Curation and Preservation:** Vocabularies, Thesauruses, ontologies, EDM(Europeana Data Model Documentation etc...
- **Maintenance and collection:** The Digital Archaeological Record (tDAR), ARIADNEplus, ICOM-CIDOC, PREFORMA, EffeHDDT...
- **Archiving:** Cloud networks, Artificial Intelligence...
- **User Experience:** Wearable technologies and platforms, Augmented Reality (AR), Virtual Reality, Mixed Reality (XR), Internet of Things, Teleimmersion...

What are the criteria for designing and curating **digital tools** that helps to realize an effective **communication**?

Is it possible to create a **unified framework** of digital curation for cultural heritage?

Architecture of Digital Curation for Cultural Heritage

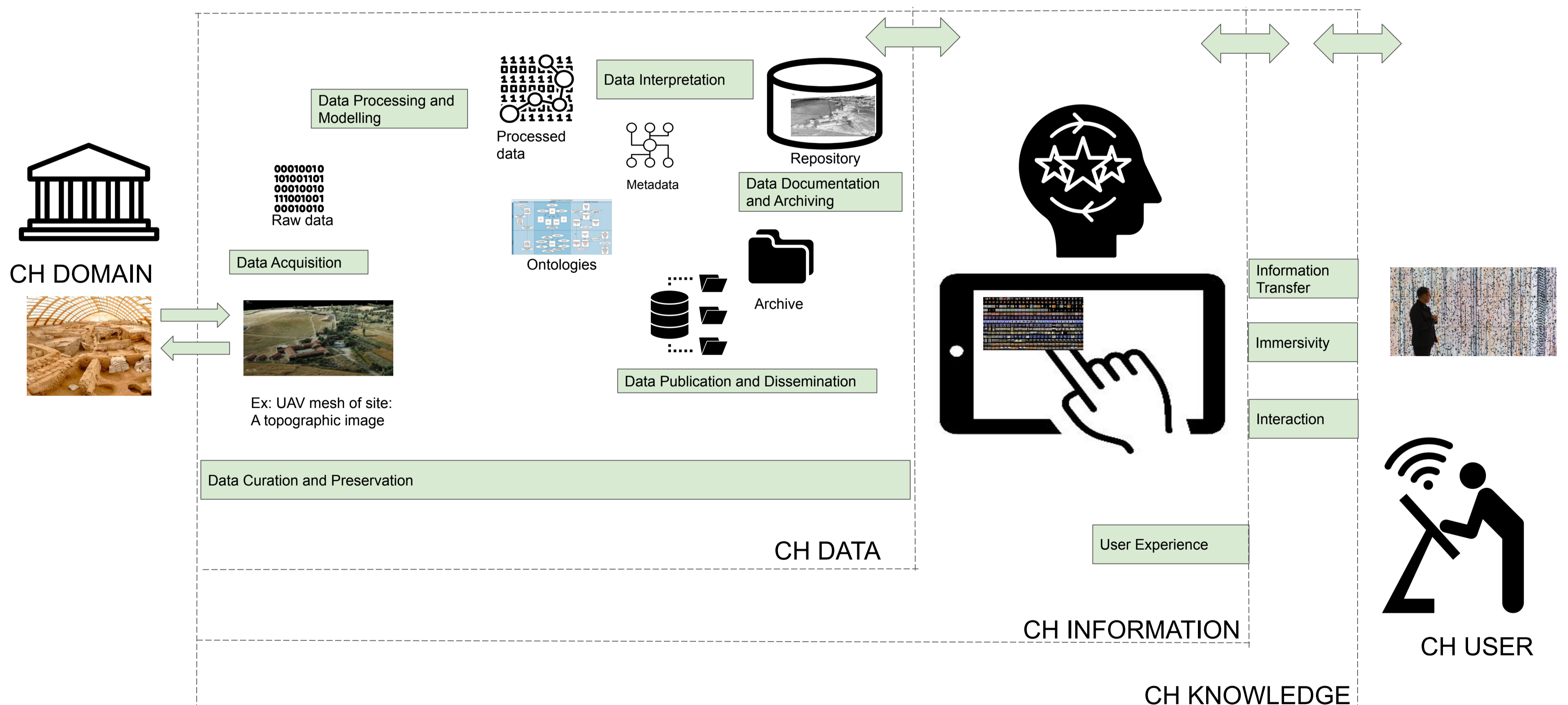


Image Source: Çatalhöyük Research Project Archive, 2017

Methodology:

