Using CRMarchaeo: The *Herculaneum* Case Study

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Herculaneum: the ancient city

- Founded in 6th century BC (Samnites and Greeks)
- Under Roman control in 89 BC (Social War)
- Important commercial city
- Destroyed by eruption of 79 AD
Rediscovering *Herculaneum*

- **Under 20m of ashes for 1600 years**
  - Pompeii: only 4m
  - 75% of the city not explored
- **1709**
  - Excavation of a well revealed the city
  - Prince d’Elbeuf: first excavation
- **1738**
  - Spanish engineer Rocque Joaquin de Alcubierre
  - Publication of *“Le Antichità di Ercolano”* (King of Naples patronage)
Rediscovering *Herculaneum*

- **1738**
  - Rediscovery of Pompeii
  - Herculaneum abandoned

- **1927-1942**
  - Archaeological excavation by Amedeo Maiuri
  - Actual condition of the site

- **1996-1999**
  - Works on “Villa dei Papiri”

- **2000-2007**
  - Conservation works
Herculaneum: an underground world
Ancient Herculaneum: *insulae* and public areas
The Villa of the Papyri

- The only surviving library from antiquity
- About 2000 papyri
- Greek philosophical texts
- Most of the library still not investigated
Herculaneum “on sales” ...
Aggregating information
Data mapping and conversion: the 3M tool
Artifacts in museums

E22 Man-Made Object
Hermes (bronze)

P46i_forms_part_of
E78 Collection
"Collezione Villa dei Papiri"

P55_has_current_location
E53 Place
Naples

P50_has_current_keeper
E39 Actor
Archaeological Museum of Naples

P52_has_current_owner
E39 Actor
Ministry of Cultural Heritage (Italy)

P1_is_identified_by
E42 Identifier
MANN5625
Controlled vocabularies

- **Concepts** and Types
  - Using *Getty Art & Architecture Thesaurus* (AAT)
  - LOD and standard URIs

- **Modern Place Names:**
  - Geonames URIs

- **Historical Place Names:**
  - *Pleiades*: Linked Open Data and URIs
  - [http://pleiades.stoa.org/](http://pleiades.stoa.org/)

- **Time and Periods**
  - Vocabularies, start and end dates to be made available as URIs in Linked Data format
  - *PeriodO* project
  - [http://perio.do/](http://perio.do/)
3M/X3ML
Mapping to CRM + CRMarchaeo
Museums Databases
ResearchSpace/Metafacts
Integrated Browse/Query Interface
Integrated Knowledge Repository
CIDOC CRM RDF TRIPLES
BlazeGraph Semantic Database
Controlled Vocabularies
3M/X3ML Mapping / Conversion Framework
XML
Thank you

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