universität wien

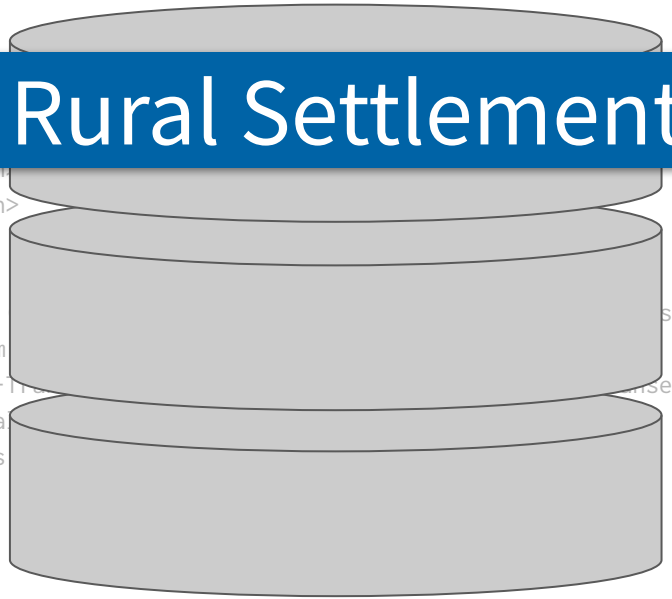
PHAIDRACON

Archiving Ancient Roman Rural Settlements *in Practice*

Experiences

Challenges

Outlooks



Dominik Hagmann

University of Vienna
Phaidracon | Technical Sessions
2020, 20TH Nov

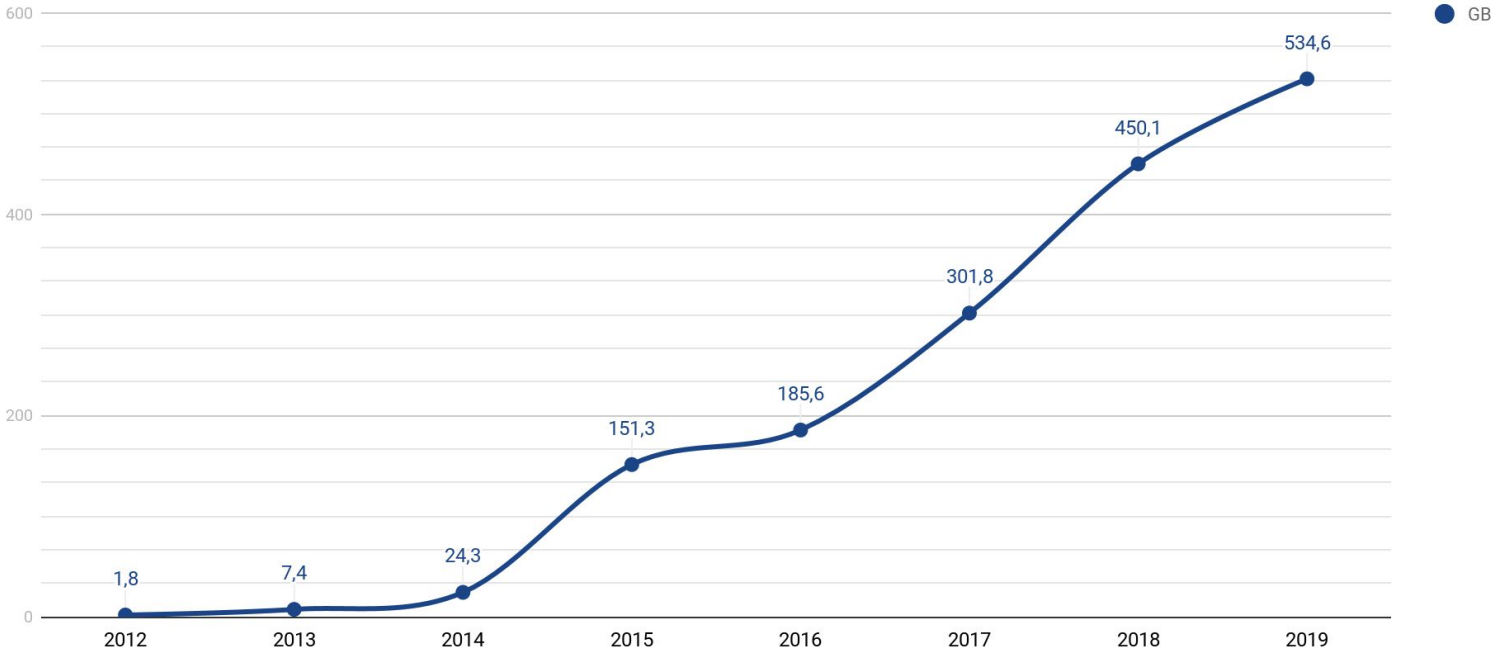
#digitalarchaeology

"Evidence of the reality of digital archeology is all around us (...)"

Costopoulos 2016

- data collection and curation
- analysis
- visualization
- distribution with public outreach and participation

raw data Molino San Vincenzo (2012–2019 | loosless compressed/stored on server)



tabular data

vector data

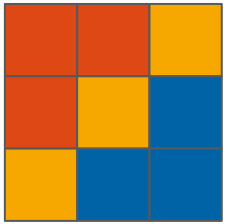
raster data

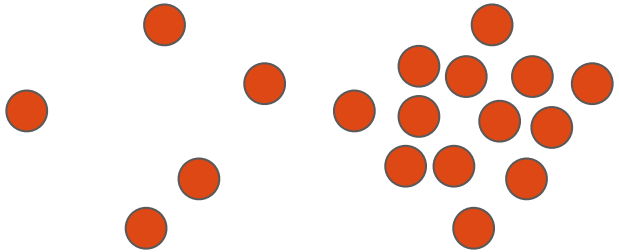
videos

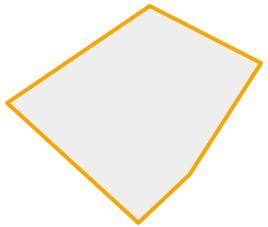
Data types

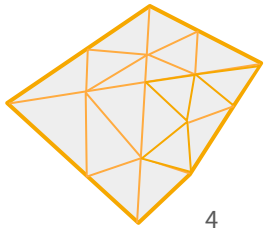
ID	ITEM	COUNT	PERIOD
4	pot	20	roman
5	bowl	7	modern
6	tile	4	islamic

- structured tables
- raster images and vector graphics
- points/point clouds and polygons/meshes
  - 3d-models
- videos
- …

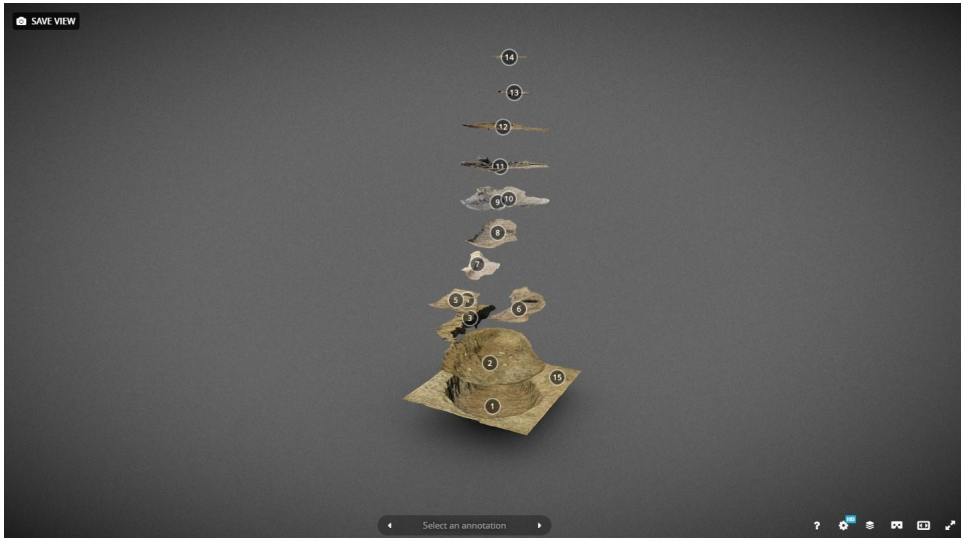


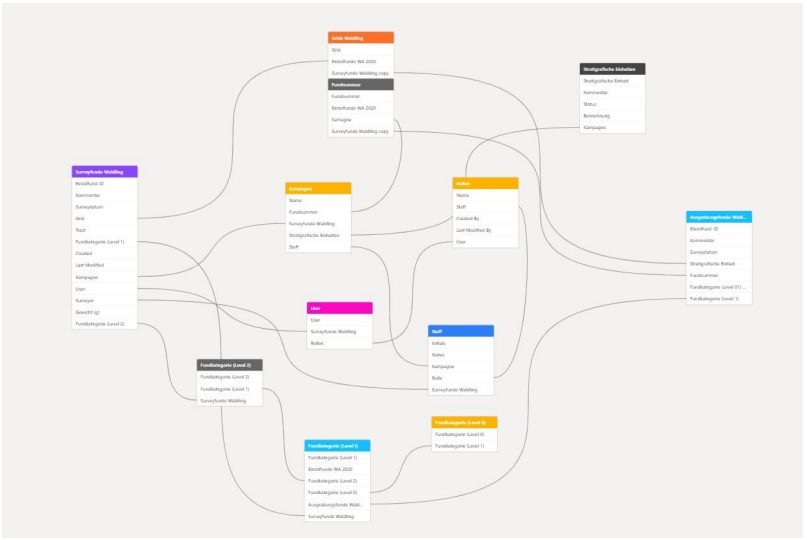






3D-models of archaeological layers | data tables





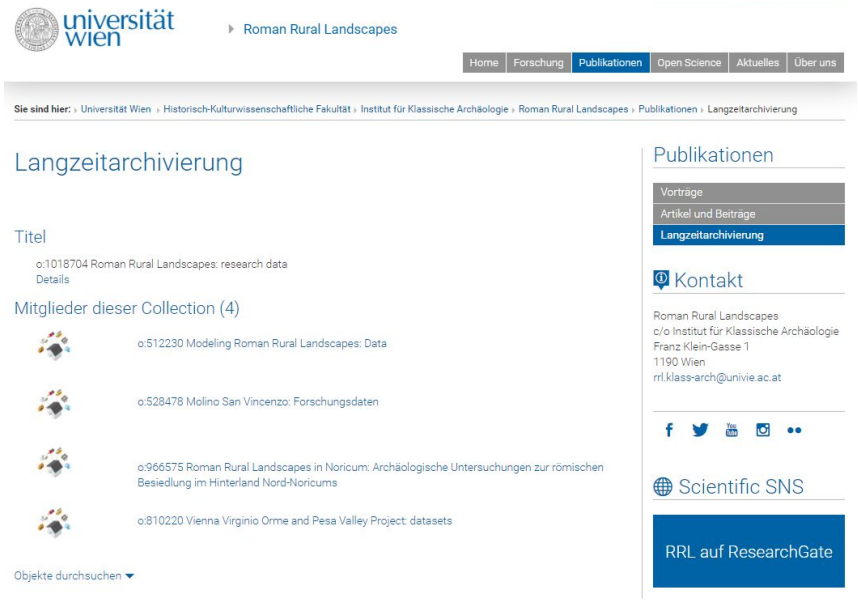
Further aspects of digital data

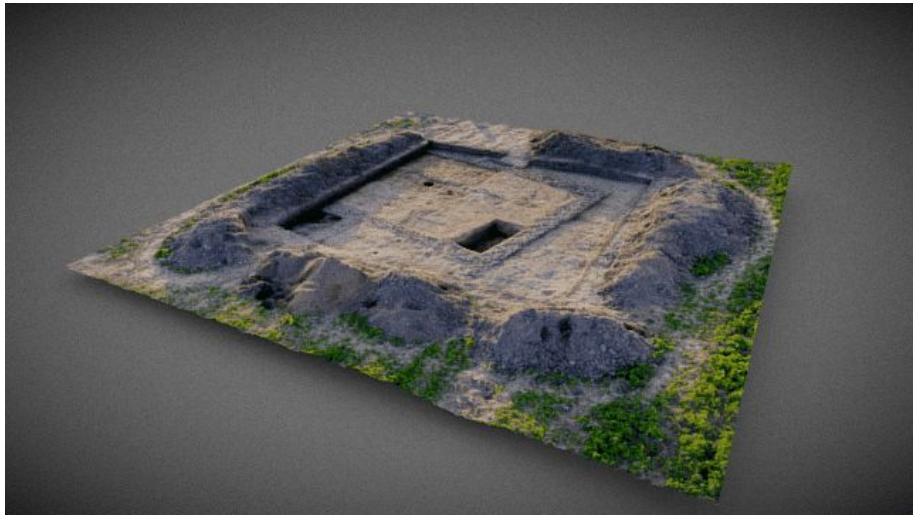
- electronic publishing
- (interactive) displaying of pictures and maps online
- electronic publishing (nevertheless, paper is just a thing!)
  - papers
  - book chapters
  - datasets
  - ...
- streaming of videos and 3d-models
- ...

...and this is where Phaidra comes to play…

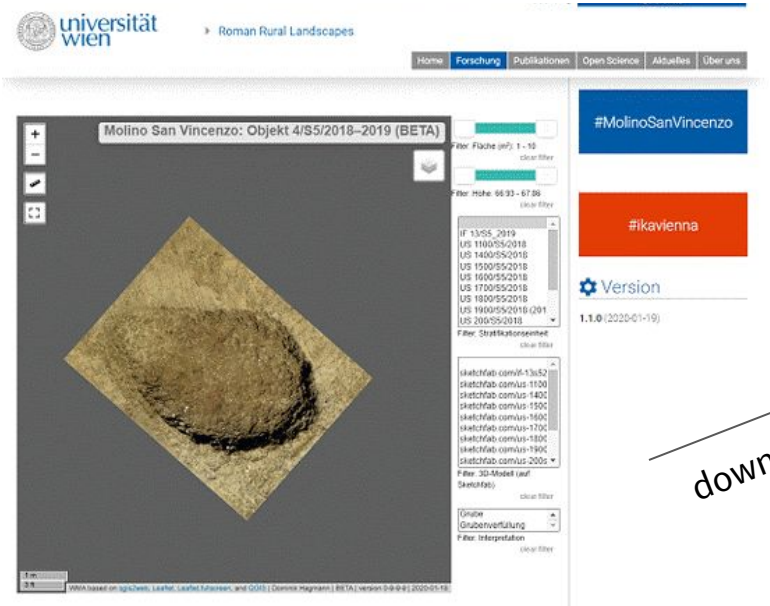
- **permanent archiving of all kinds of data**
- every object gets a permanent digital signature, e.g. permalink and DOI if needed
- objects can be described in multiple languages, e.g. German, Italian and English
- **metadata**
  - the object life cycle
  - technical information about the object
  - rights and licenses
  - classification systems
  - contextual information
  - ...

seamless website integration for search and download

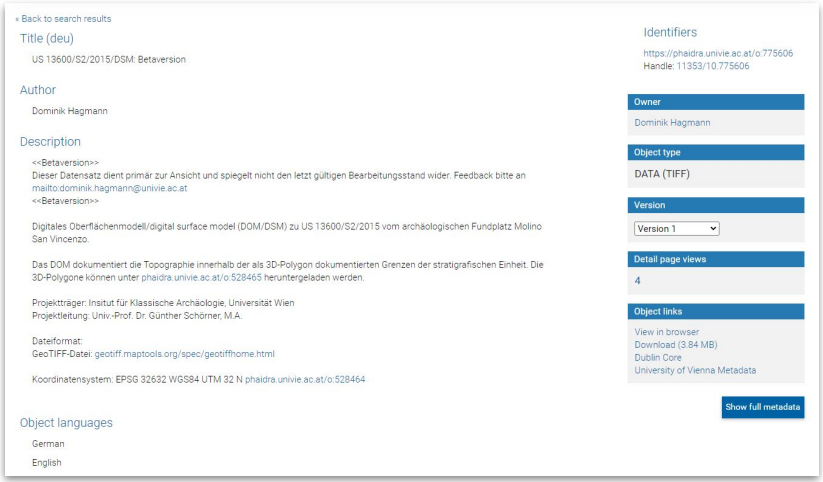




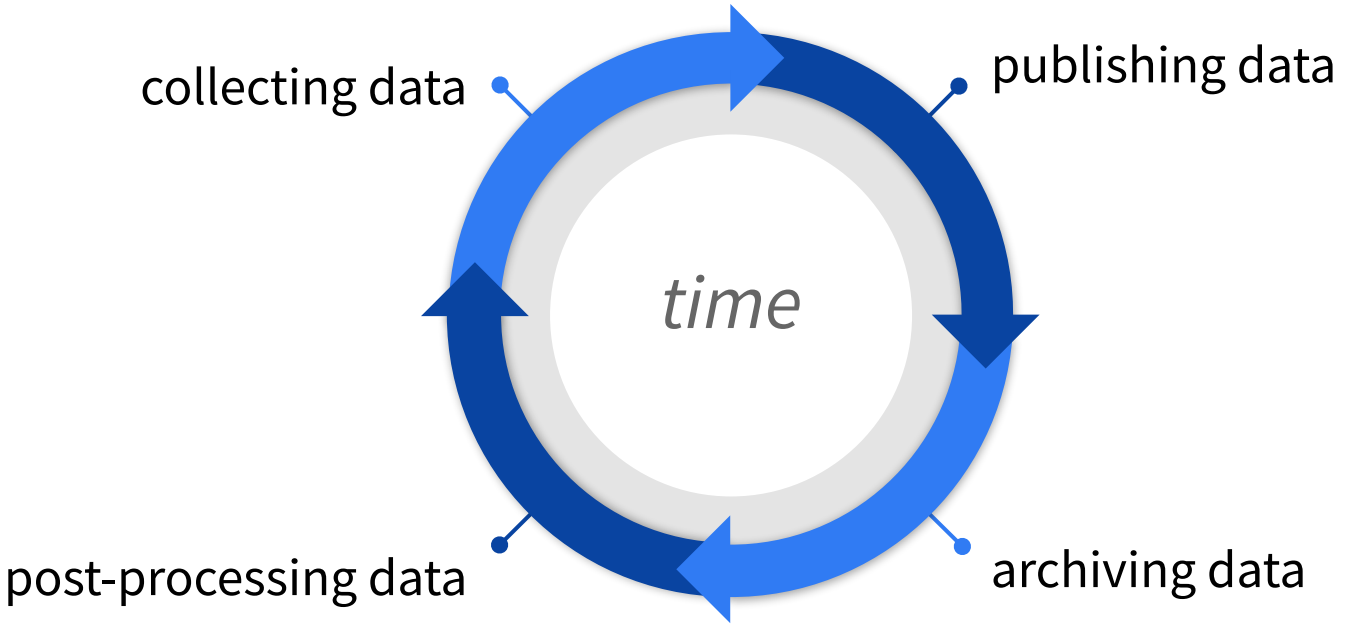
compatibility with lightweight WMAs



download link

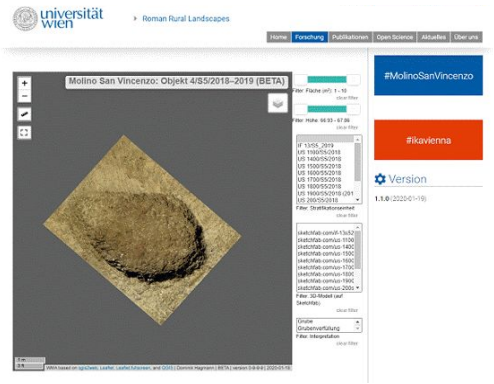


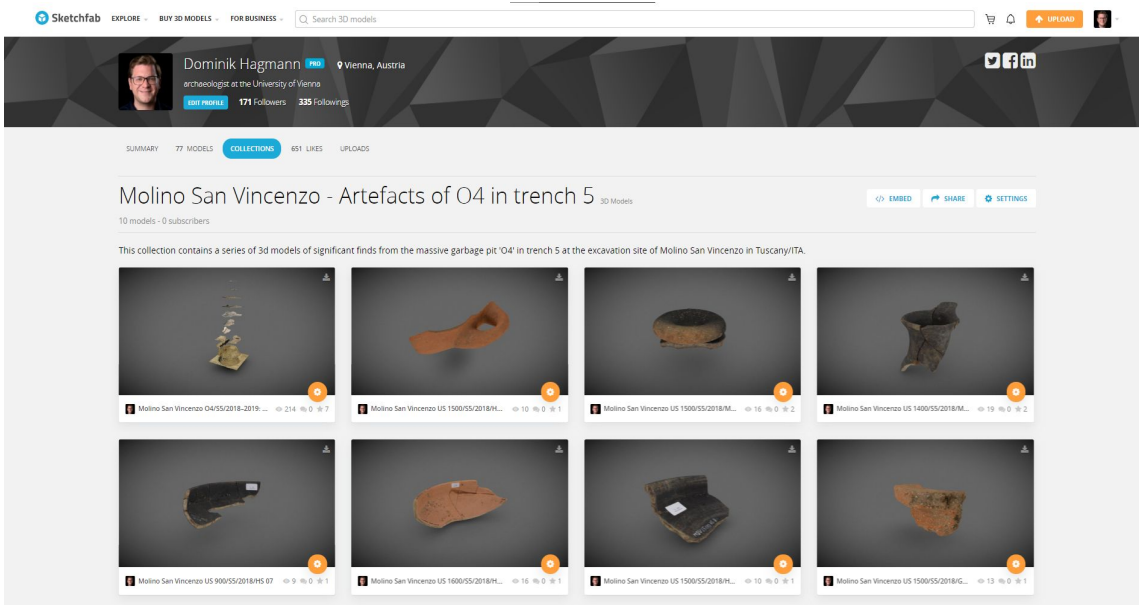
Challenges


collecting data
publishing data
time
post-processing data
archiving data

Challenges and outlooks/desired functions

- on-the-fly visualization of
  - 3d objects
  - spatial data





Conclusion and outlook

- Phaidra as secure and sustainable platform for long-term archiving of archaeological data
- Various possibilities of integrating Phaidra in digital archaeological practice
- Though, still, modifications are needed to support archaeologists' needs fully, like on-the-fly visualization of
  - 3d objects
  - spatial data

Thank you for your attention!

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