

Working with subjects and temporal concepts across international archaeological resources



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Introduction

The Problem(s)

- Subject: Archaeological data is particularly difficult to aggregate across borders, as it must not only be multilingual, but also represent a wide range of research traditions
- Temporal concepts: Time in archaeology must also be geolocated (Bronze Age in Yorkshire is not the same as Bronze Age in Crete)



Introduction to ARIADNE

- EU FP7 project under the 'Infrastructures' theme, including 23 European partners across 16 countries
- Four-year project: First phase ended January 2017
- 17 Workpackages primary deliverable: collection level metadata aggregation portal
- Coordinator: PIN Scri Polo Universitario "Città di Prato" at the University of Florence
- Deputy Coordinator: ADS



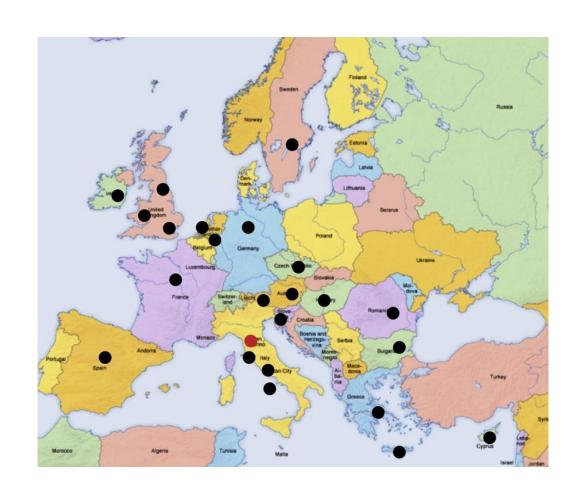
ariadne-infrastructure.eu



ARIADNE

ARIADNE Community:

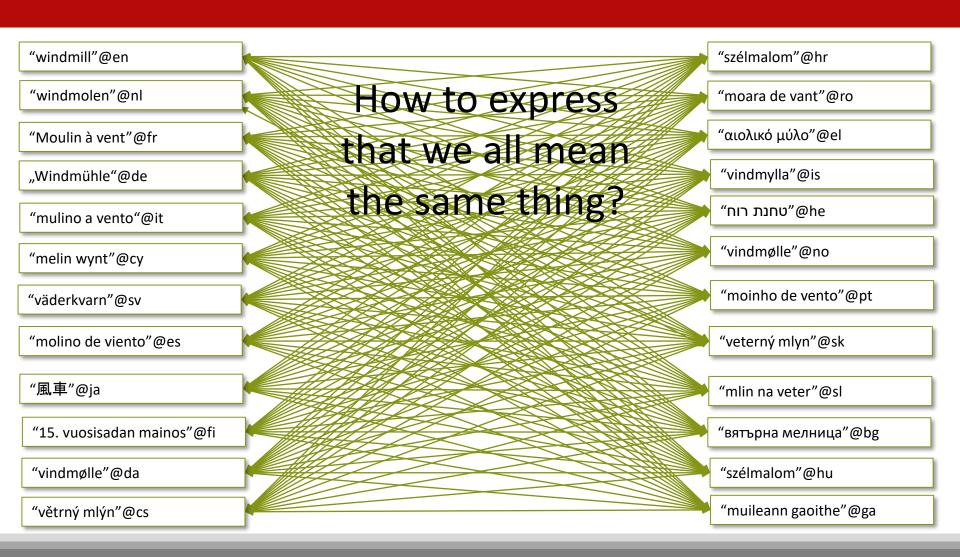
- 9 ICT organisations
- 14 archaeological organisations
- 15 Associate partners



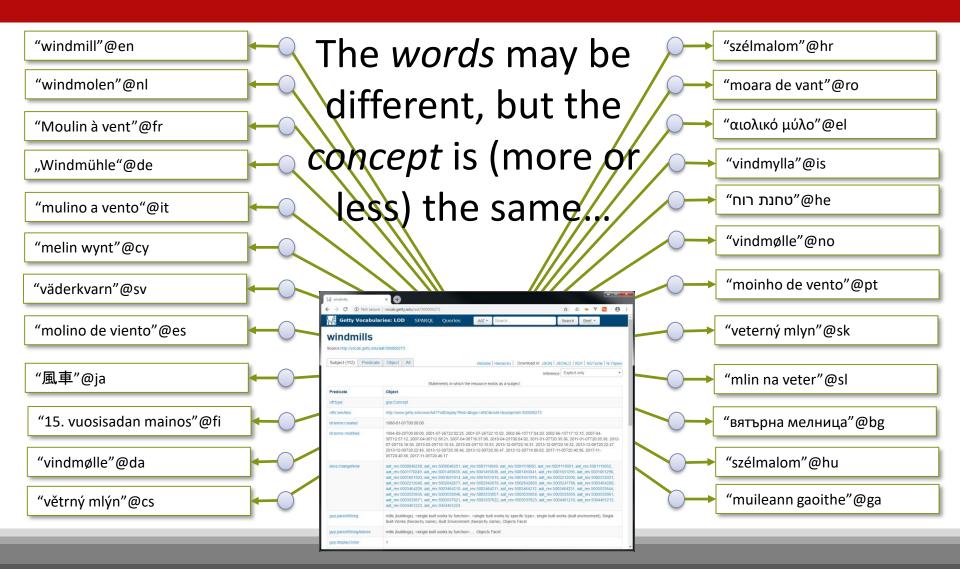


- Original datasets not necessarily produced with aggregation, consolidation, reuse and cross-search in mind
- I say "potato", you say "pomme de terre", she says "maris piper" – multiple barriers to cross-searching subject metadata – language, punctuation, spelling, homonyms, synonyms, level of specificity
- Text-based search is limited by all of these
- Need to establish common meaning

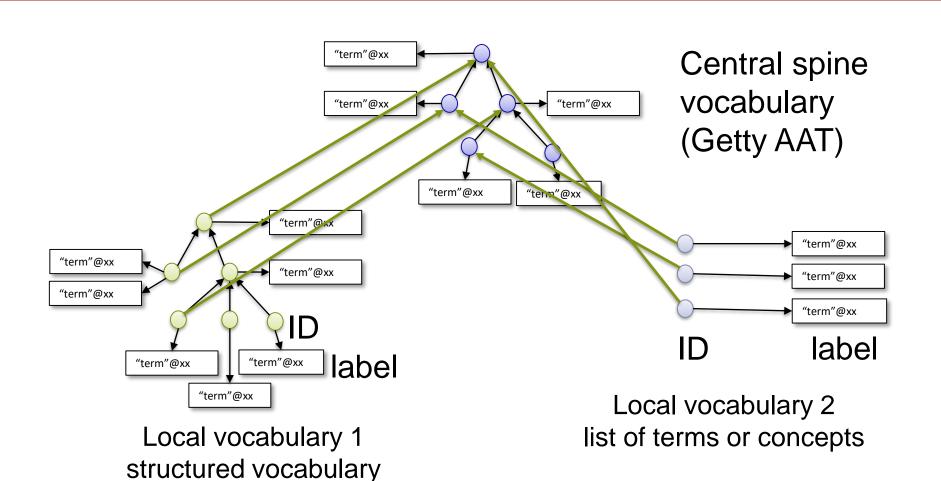








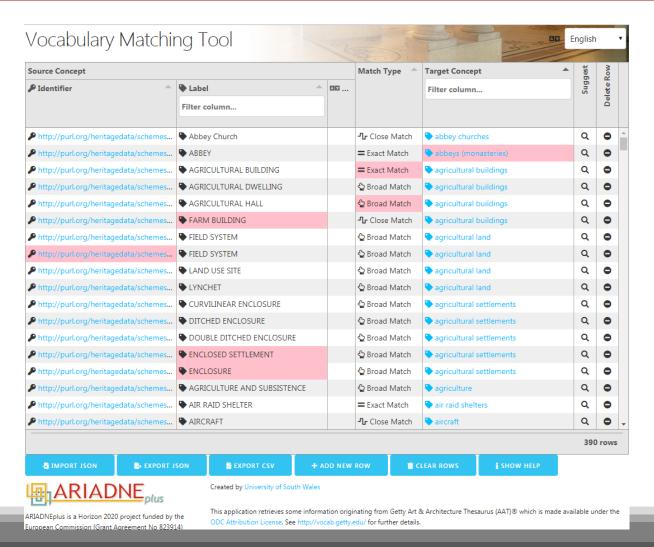






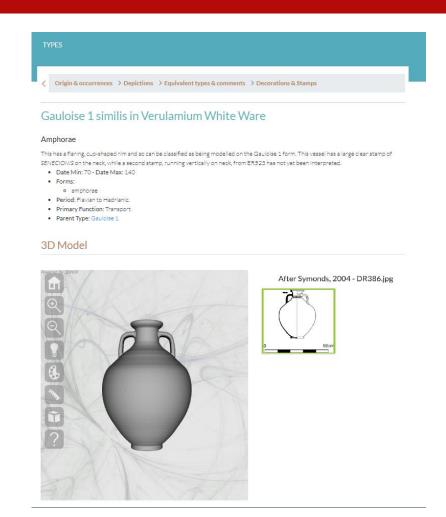
- Concepts from 27 vocabularies from 12 data partners were mapped to Getty AAT
- Mappings by individual partners ranging from a few to over 1600 concepts
- 6416 mappings total
- Most at similar level of generality
- Some partner vocabs more specialised than AAT but in a few cases AAT was more specialised







- H2020 Research and Innovation Action focused on using automated image recognition to identify archaeological pottery
- Needed to create multilingual digital comparative collections for the pottery types

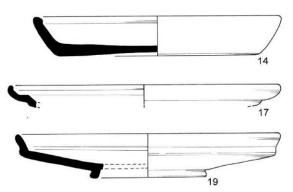














Plate, Platter or Dish?



Had to agree a baseline on how aspects are recorded Created controlled vocabularies for use within the comparative database:

- Sherd type e.g. "rim"
- Form e.g. "plate"
- Decoration form e.g. "burnished"
- Decoration colour e.g. "yellow"
- Fabric e.g. "North African 1"



Although the pottery terms were much more specialised than the subject terms for ARIADNE, mapping to the AAT was still a good solution

The Italian terms *graffita*, *graffita* a punta, *graffita* a stecca = "sgraffito" http://vocab.getty.edu/aat/300266416

The Spanish term *Cántaro*= "jars" http://vocab.getty.edu/aat/300195348

The German terms *gebogener Henkel*, *Ohrförmiger Henkel* = "handles" http://vocab.getty.edu/aat/300266416

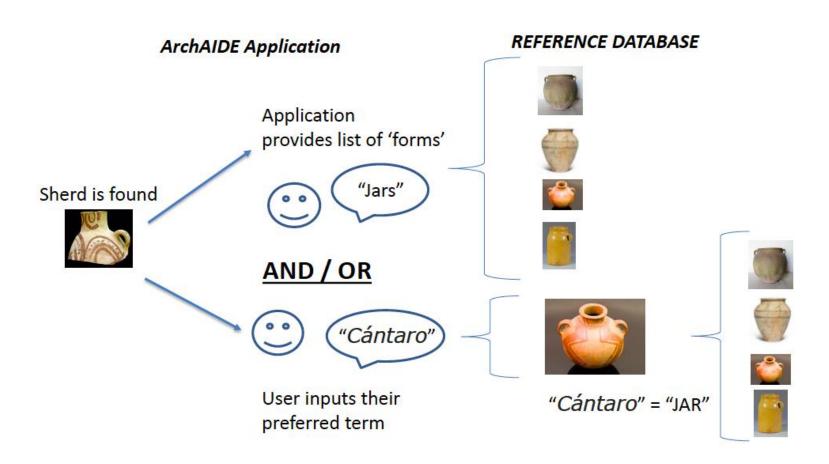


Often this was more complicated, with partners having differing perceptions on what to call something (e.g. "plate" versus "platter")

In truth, this confusion may also be reflected by what has come out of the ground!

An advantage of using the AAT (SKOS thesaurus), is that ambiguity or difference in nomenclature can be resolved by a broader term or concept









ARCHAIDE Portal for Publications and Outputs

ARCHAIDE, 2019

Introduction Downloads Metadata Usage Statistics

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Downloads

- Archaide Mappings
- Archaide Triples
- Archaide Wordlists

Archaide wordlists

archaide_vocab_characteristic_base_type	CSV	1 Kb
archaide_vocab_characteristic_body_type	CSV	1 Kb
archaide_vocab_characteristic_handle_type	CSV	2 Kb
archaide_vocab_characteristic_neck_type	CSV	1 Kb
archaide_vocab_characteristic_rim_type	CSV	1 Kb
archaide_vocab_characteristic_shoulder_type	CSV	1 Kb
archaide_vocab_decoration_colour	CSV	1 Kb
archaide_vocab_decoration_type	CSV	1 Kb
archaide_vocab_sherd_type	CSV	1 Kb
archaide_vocab_type_form	CSV	2 Kb

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A gazetteer of period definitions for linking and visualizing data.

Download

the period definitions as JSON.

Use

the PeriodO period browser.

What is this?

PeriodO is a public domain gazetteer of scholarly definitions of historical, art-historical, and archaeological periods. It eases the task of linking among datasets that define periods differently. It also helps scholars and students see where period definitions overlap or diverge.

Who are you?

The PeriodO project is led by Adam Rabinowitz (University of Texas at Austin) and Ryan Shaw (University of North Carolina at Chapel Hill) with the cooperation of the University of Texas Libraries. Patrick Golden is the lead developer of the PeriodO software. The PeriodO dataset has been developed largely by our generous contributors. Our work has been funded by a Digital Humanities Start-Up Grant from the Office of Digital Humanities at the National Endowment for the Humanities, and a National Digital Platform grant from the Institute of Museum and Library Services.

Tell me more.

Start by looking at the guide to using PeriodO.

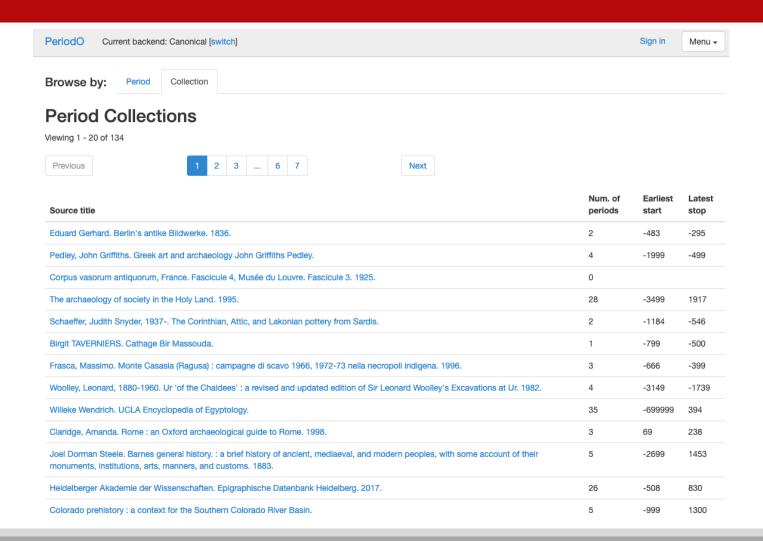
You may also be interested in reading about the motivation for the project or getting a technical overview. Further information can be found in our publications. To keep up with PeriodO developments, follow us on Twitter: @perio_do. Or contact us and ask whatever you want!



http://perio.do

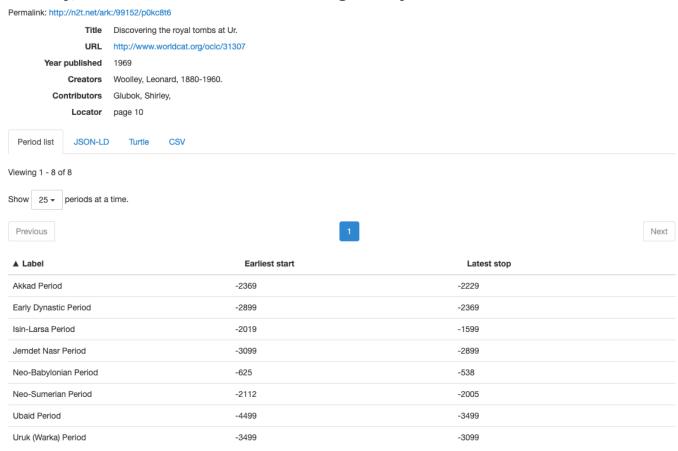








Woolley, Leonard, 1880-1960. Discovering the royal tombs at Ur.





ARIADNE Consortium. ARIADNE Data Collection. 2015.

Permalink: http://n2t.net/ark:/99152/p0qhb66

Title ARIADNE Data Collection

Citation ARIADNE Consortium. "ARIADNE Data Collection". 2015. http://www.ariadne-infrastructure.eu/Resources/PeriodO/documentation.

URL http://www.ariadne-infrastructure.eu/Resources/PeriodO/documentation

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Year published 2015

Creators ARIADNE Consortium

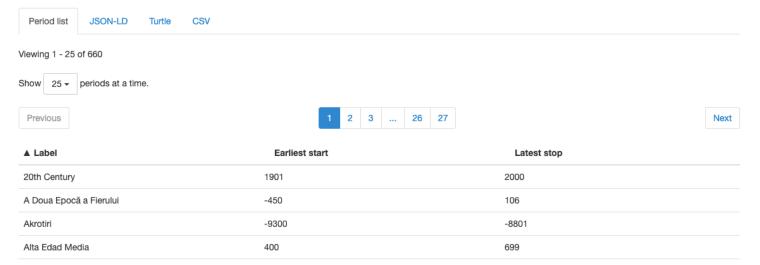
Editorial note

Alto Medioevo

Alto Romano

Antiquité

Periodizations gathered from ARIADNE partners on the national level in a series of EU countries, as well as periodizations from some non-EU Fasti Online contributors. Some of the definitions are derived from other PeriodO collections; where this is the case, a note has been included with the PeriodO URI of the definition from which it is derived.

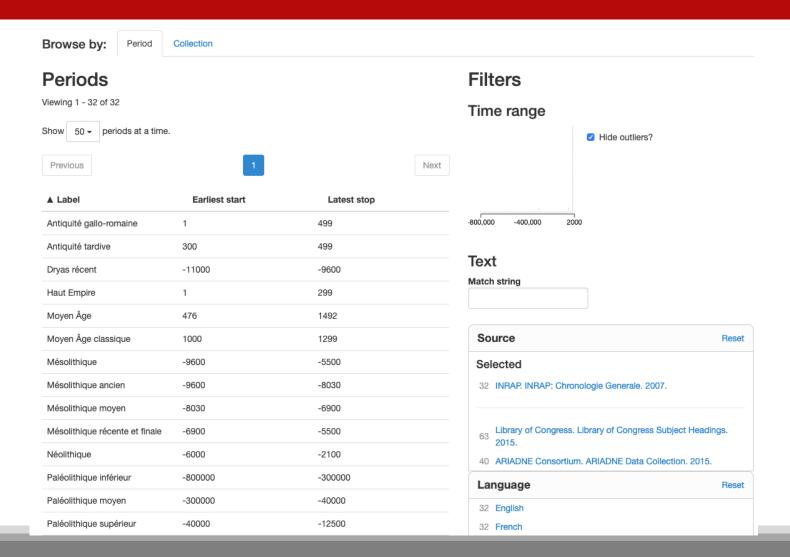


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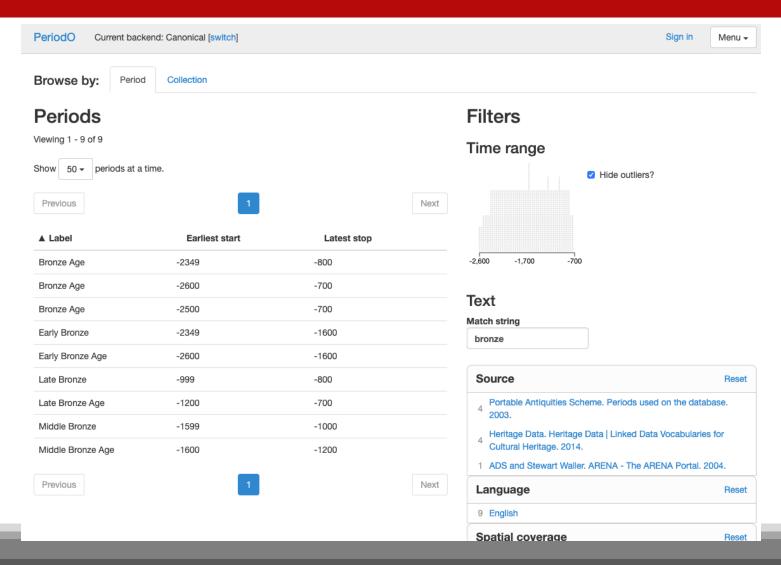
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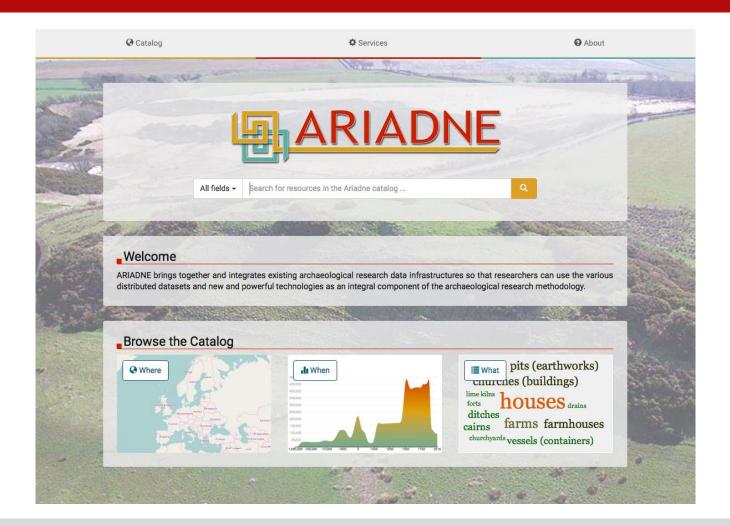








ARIADNE





ARIADNEplus

ARIADNEplus Community:

- 41 partners
- 28 countries
- Majority are archaeological partners
- Linked data backend
- **Extending thematic** coverage
- **Expanding participation**







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Further Information

http://archaeologydataservice.ac.uk



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