

OpenAIRE collaboration with



a data infrastructure serving the archaeological community worldwide

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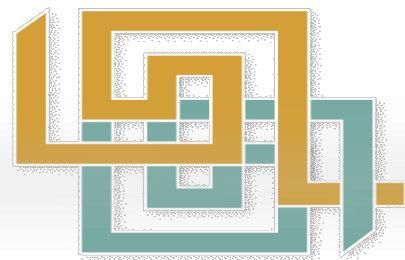
OpenAIRE Week - General Assembly, Public sessions | Oct 16, 2020



ARIADNEplus (2019-2022) is the continuation & extension of ARIADNE (2013-2017)

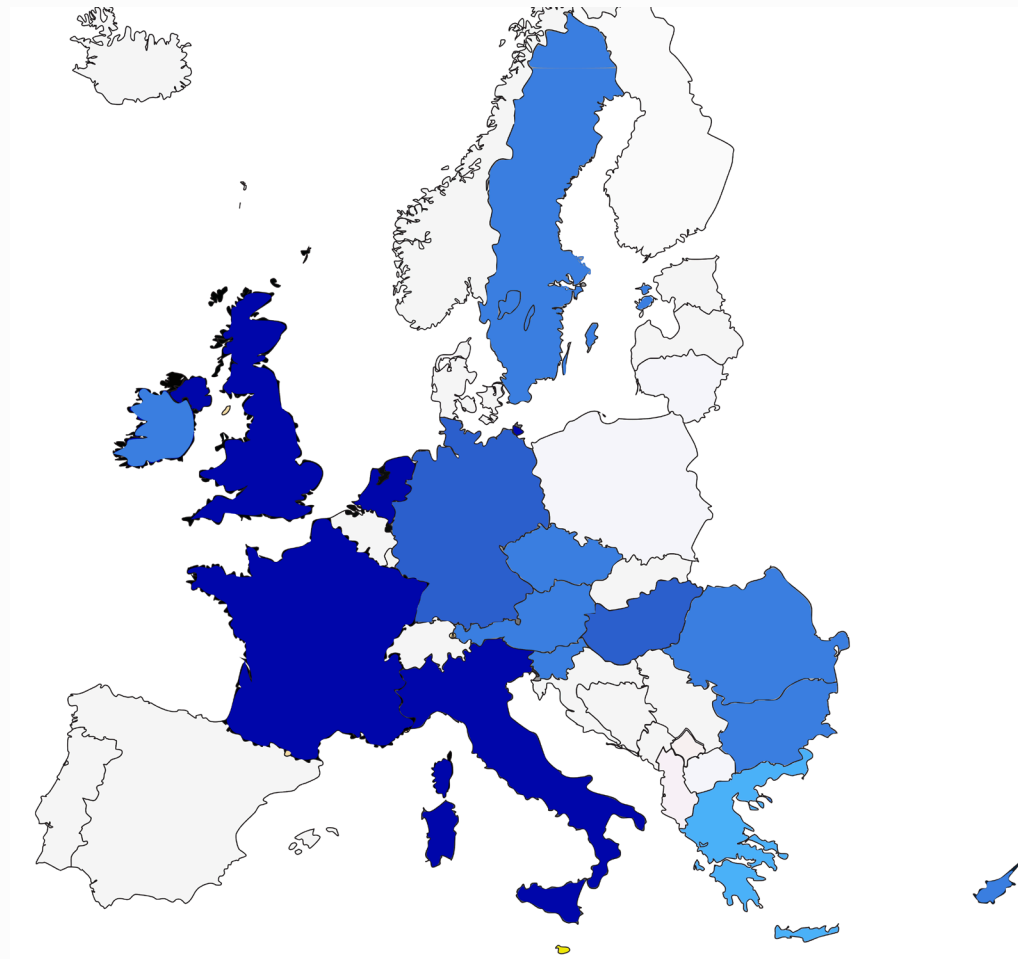
- It builds on ARIADNE results
 - successfully integrated archaeological data infrastructures in Europe, indexing in its registry about 2M datasets
- It extends ARIADNE along several dimensions
- It focuses ARIADNE on innovative services
- It embeds ARIADNE in the EOSC

Our mission: to interpret and answer the research community needs for studying the past, to better understand the present with the tools and the methodology of the future, in the service of research, culture and society.

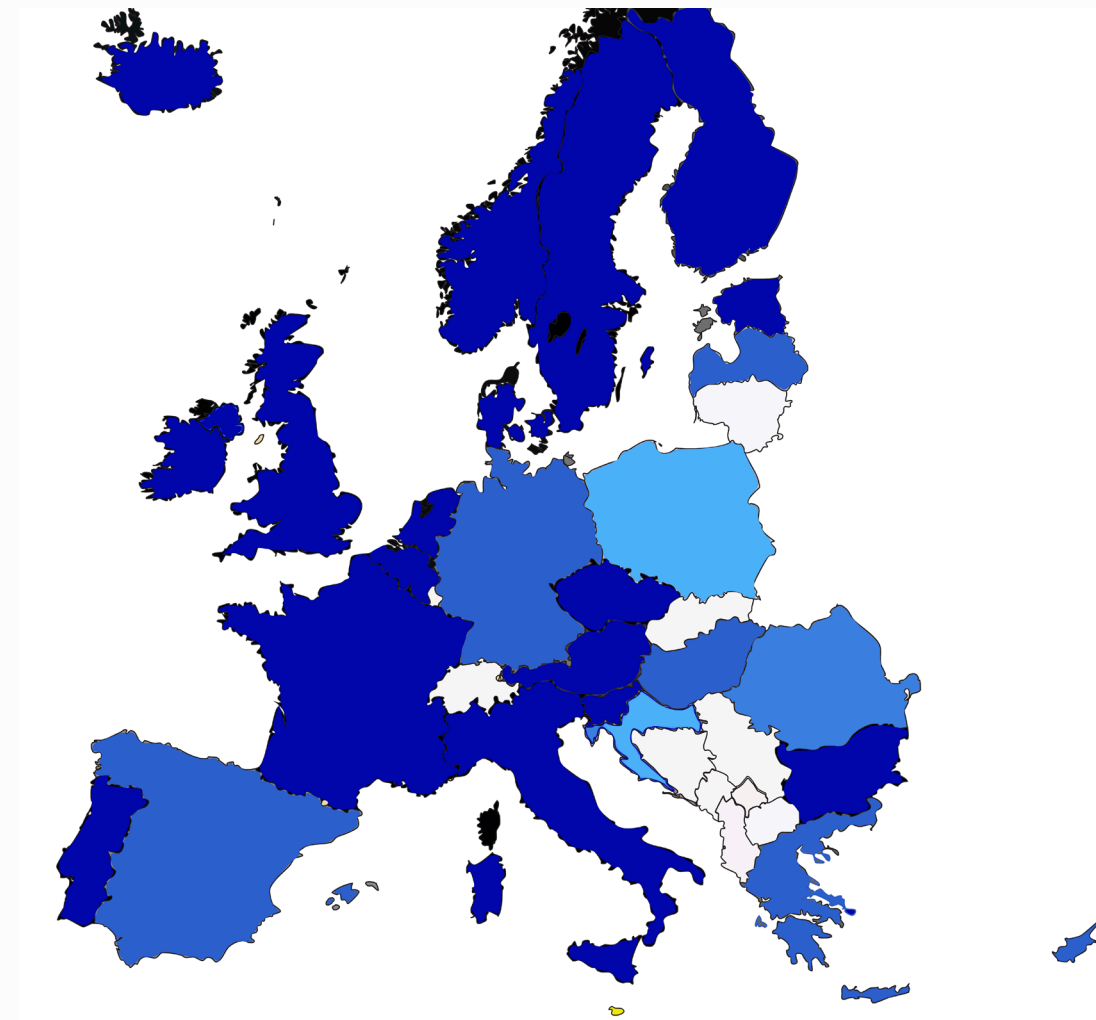


ARIADNE vs ARIADNEplus

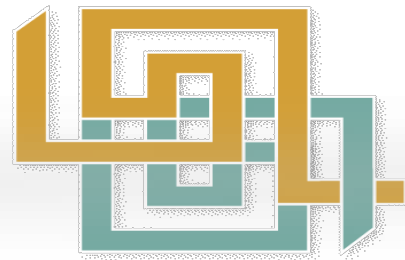
ARIADNE and ARIADNEplus geographic coverage



ARIADNE: 17 partners in 13 countries

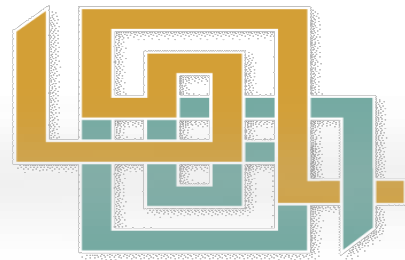
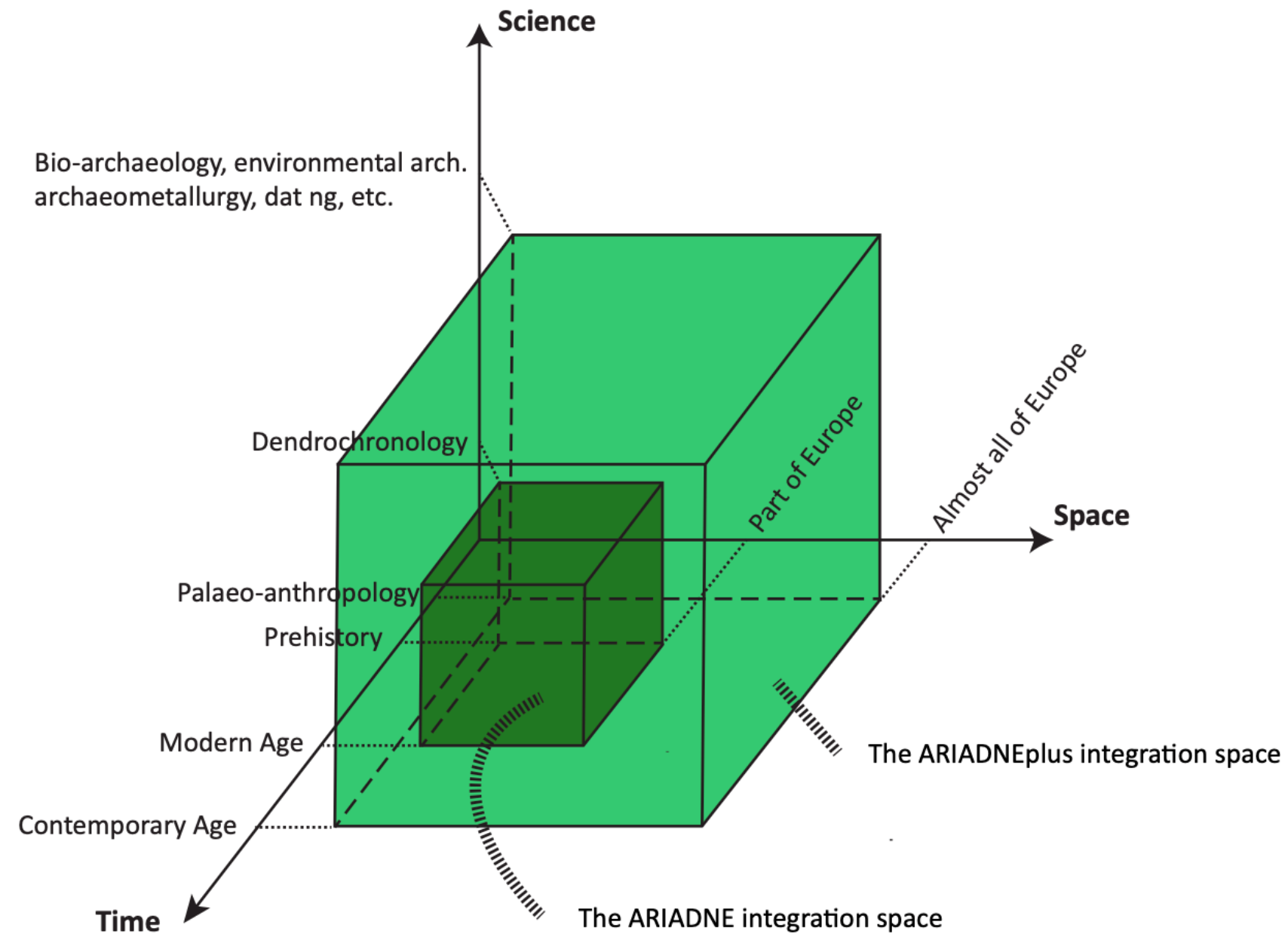


ARIADNEplus: 41 partners covering 26 countries (+4 extra-European: USA, Argentina, Japan, Israel)



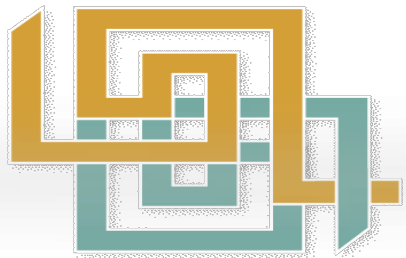
ARIADNE vs ARIADNEplus

ARIADNE_{plus} extends ARIADNE in several dimensions:



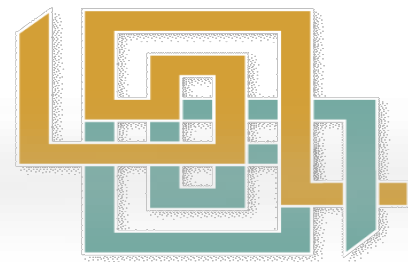
The objective: data-centric research

- Creating a cloud-based one-stop shop to find and access interoperable archaeological data, and re-use them in a VRE
 - **First level:** creating a comprehensive **catalogue** for archaeological datasets based on a shared **ontology** and common **vocabularies**
 - **Second level:**
 - Integrating databases at item level
 - Integrating geo-referenced data
 - Integrating scientific data with related documentation
 - **Third level:** creating an eco-environment of knowledge, data and services
- Mainstream a data-centric methodology in the archaeological research community



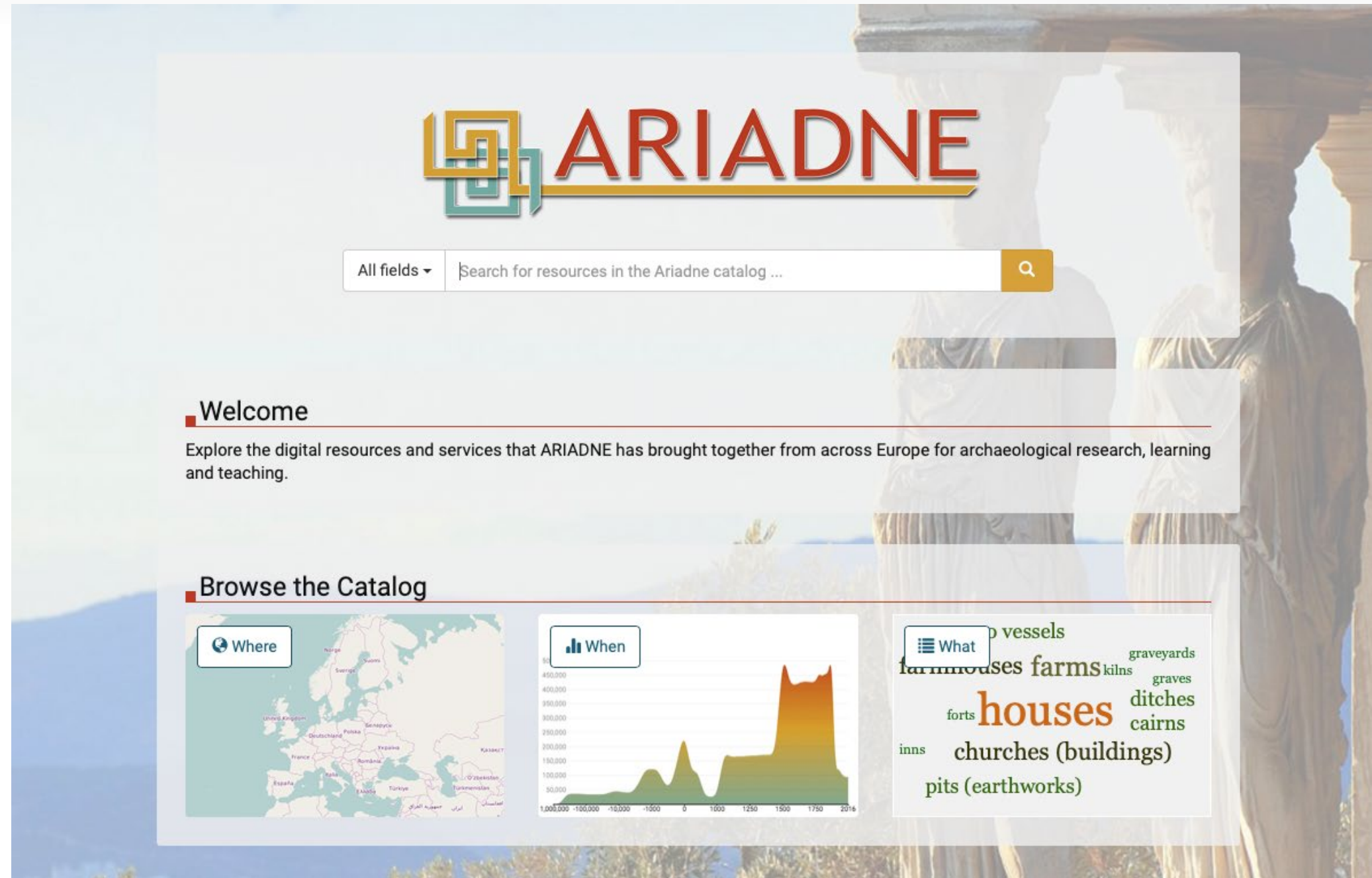
The ARIADNE_{plus} web site

The screenshot shows the homepage of the ARIADNEplus website. At the top, the browser address bar displays 'ariadne-infrastructure.eu'. The website header features the ARIADNEplus logo on the left and a navigation menu with links for Home, Community, Activities & resources, Portal, Training & TNA, and News & events. Below the header is a large banner image of various national flags with the text 'ARIADNEplus' and 'a data infrastructure serving the archaeological community worldwide'. A button labeled 'LEARN MORE ABOUT THE PROJECT' is positioned below the banner. The main content area contains a paragraph: 'Integrate and effectively serve a research community that studies the past to better understand the present with the tools and the methodology of the future, in the service of culture and society'. Below this are three statistics boxes: 'Partners 41', 'European countries 23', and 'International partners 4'. At the bottom, there are four image-based categories: 'Community' (two people at a laptop), 'Activities and resources' (a camera on a tripod), 'Training & TNA' (a laptop with code on the screen), and 'Portal' (a person working at a desk).



ariadne-infrastructure.eu
whatis.ariadne-infrastructure.eu

The ARIADNE_{plus} Portal



The screenshot shows the ARIADNE portal interface. At the top, the ARIADNE logo is displayed in a stylized, colorful font. Below the logo is a search bar with a dropdown menu set to "All fields" and a search button. The main content area features a "Welcome" section with a red header and a paragraph of text. Below this is a "Browse the Catalog" section with three interactive panels: a "Where" map of Europe, a "When" area chart showing data from 1,000,000 BC to 2016, and a "What" word cloud of archaeological terms.

ARIADNE

All fields ▾ Search for resources in the Ariadne catalog ... 🔍

Welcome

Explore the digital resources and services that ARIADNE has brought together from across Europe for archaeological research, learning and teaching.

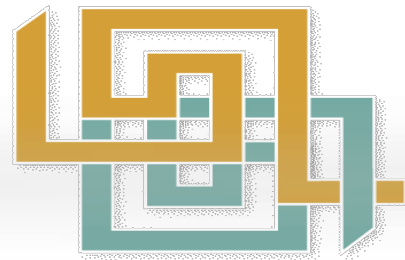
Browse the Catalog

Where

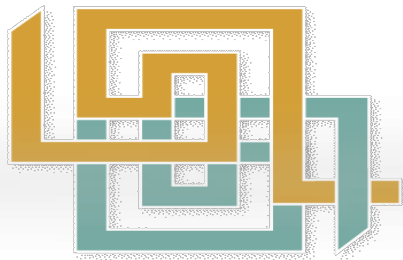
When

What

- vessels
- graveyards
- farmhouses farms kilns graves
- ditches
- cairns
- houses
- forts
- churches (buildings)
- pits (earthworks)
- inns



“What” browse – The ARIADNE_{plus} Portal



OpenAIRE + ARIADNEplus

- **Integrating archaeological digital libraries with ARIADNEplus (T4.5)**
 - Aim: to link the ARIADNEplus Data Infrastructure with repositories of scientific publications by exploiting OpenAIRE and the links to individual journals such as *Internet Archaeology* or *Archaeology and Culture (A&C)*.
 - make archaeological data more **discoverable, accessible, interconnected and complete**

Building a bridge between ARIADNE and OpenAIRE

- ARIADNE pilot: text mining *citation extraction & matching* algorithm on ADS Grey Literature Reports
- Almost 300 relations to OpenAIRE publications (ePMC)
 - mostly references to publications in **medical history/epidemiology** journals
 - covering topics of the broader archaeological field, including anthropology, biology, palaeontology, ceramics, architecture, and also outside the UK, from Greece, Italy, all the way to Oceania.
 - To validate these relations and to identify their value, archaeologist Agiatis Benardou run a thorough examination and concluded that *“the vast majority of records are absolutely useful and relevant...”*

Find out more: <https://www.openaire.eu/ariadne-openaire-collaboration>

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**Given that grey literature
(reports) is rarely well
referenced in publications,
making these connections is a
positive result**

- Prof. Julian D. Richards, ADS Director

Linking ARIADNEplus Datasets to Publications

- Harvesting dataset metadata from ARIADNEplus.
- Investigating if publications cite any of the ARIADNEplus data objects.
- Such relationships can then be used to link content between OpenAIRE \leftrightarrow ARIADNEplus portal.
 - Improve the configuration of the existing Digital Humanities and Cultural Heritage (<https://beta.dh-ch.openaire.eu>).

Improving metadata of published papers.

- Explore the possibility of using the ARIADNEplus NER (Named Entity Recognition) service to improve the metadata of published papers.
- Based on the previous ARIADNE text mining tool, further developed into TEXTCROWD*
 - a cloud-based NLP tool created as a Science Demonstrator within the EOSCpilot EU project. ([*https://textcrowd.d4science.org](https://textcrowd.d4science.org))
- Inter-task collaboration
 - with UoY-ADS & USW

RDM collaboration – implementing DMPs

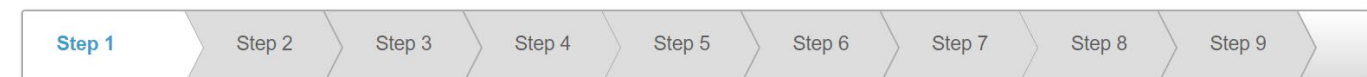
- **Online template for DMPs (H2020)**

- **Based on PARTHENOS**

- **Dedicated to archaeology RDM**



DMP Researcher Template for Archaeological Datasets



Mandatory questions are marked with an asterisk.

*Required



ABOUT RESOURCES CONTACT LOG IN

Plan and follow your data

Create machine actionable DMPs.

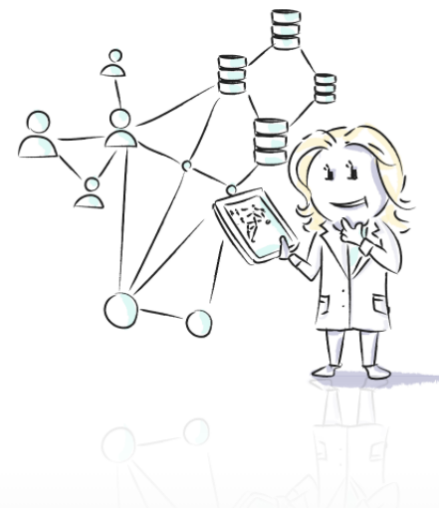
Configure to best fit your discipline.

Link to EOSC components out of the box.

Share easily in your repository.

Bring your Data Management Plans closer to where data are generated, analysed and stored.

Start your DMP



- **Online tool (many templates)**
- **Based on OpenDMP (OpenAIRE & EUDAT CDI)**
- **Interdisciplinary RDM**



Areas of work

Landscape

- a. DMP tools capabilities
- b. existing DMP templates for archaeology
 - commonalities and differences (scope, target audience, organization)
 - technical information (software, model)
- FAIR principles and global standards

Templates

- a. Guidance (navigation, literacy)
 - OpenAIRE Task Forces outputs
- b. ARIADNEplus H2020 template
 - Template available from Argos (APIs, RDA)

Global standards

- a. Compliance with RDA through Argos template
- b. Import mechanism of ARIADNEplus

Thank you!

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