ARIADNE is funded
by the European Commission's
7th Framework Programme

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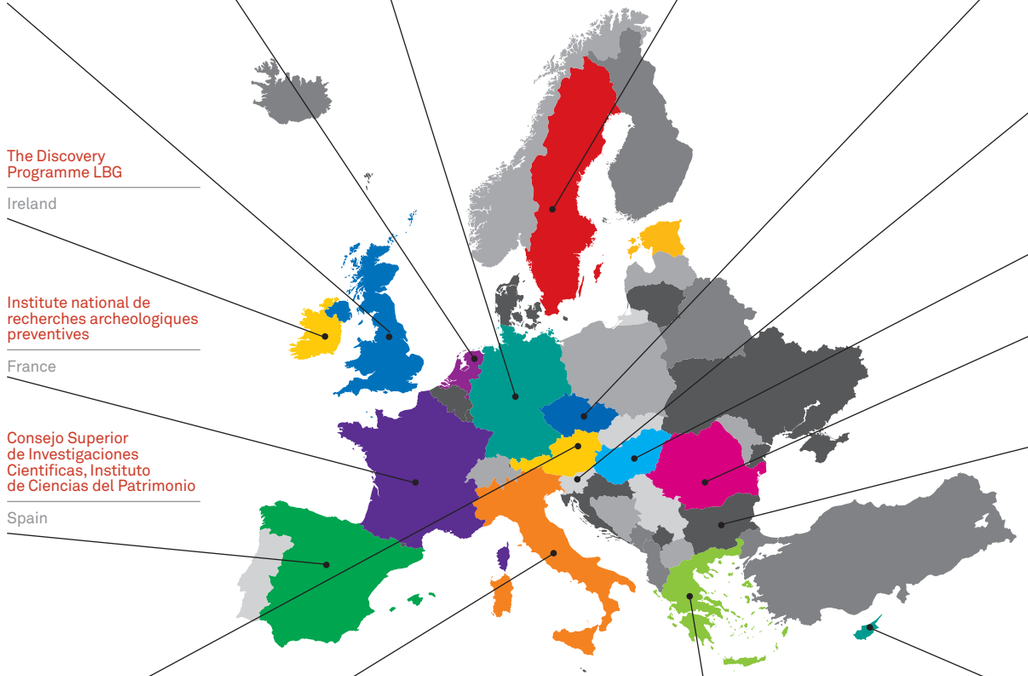
Partners



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Institute of Archaeology AS CR
Czech Republic

Znanstvenoraziskovaini Center Slovenske Akademije Znanosti In Umetnosti
Slovenia

Hungarian National Museum/National Heritage Protection Centre
Hungary

Asociatia Arheo Vest
Romania

National Institute of Archaeology and Museum, Bulgarian Academy of Sciences
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The Cyprus Institute Limited
Cyprus

Athena Research Centre
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France

Consejo Superior de Investigaciones Cientificas, Instituto de Ciencias del Patrimonio
Spain

The Discovery Programme LBG
Ireland

ARIADNE

A research infrastructure for archaeology

www.ariadne-infrastructure.eu

ARIADNE

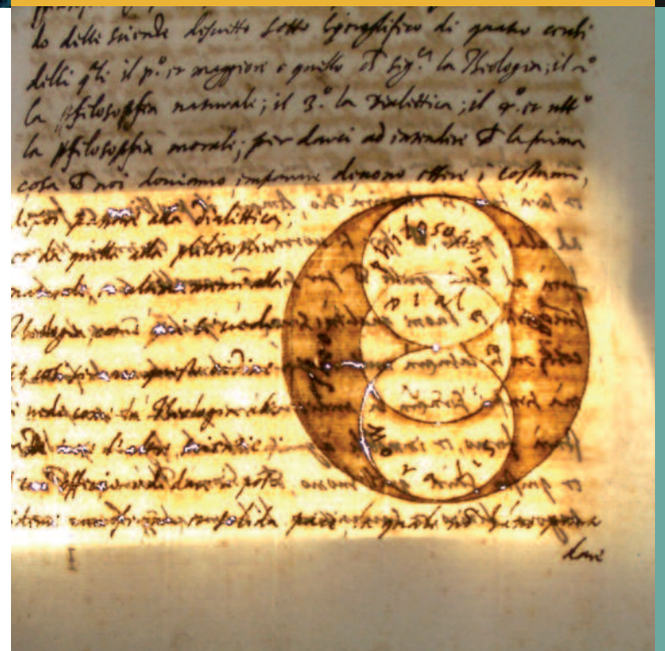
ARIADNE brings together and integrates existing archaeological research data infrastructures so that researchers can use the various distributed datasets and new and powerful technologies as an integral component of the archaeological research methodology.
There is now a large availability of archaeological digital datasets that all together span different periods, domains and regions; more are continuously created as a result of the increasing use of IT. These are the accumulated outcome of the research of individuals, teams and institutions, but form a vast and fragmented corpus and their potential has been constrained by difficult access and non-homogenous perspectives.
ARIADNE will enable transnational access of researchers to data centres, tools and guidance, and the creation of new online services based on common interfaces to data repositories, availability of reference datasets and usage of innovative technologies. It will stimulate new research avenues in the field of archaeology, relying on the comparison, re-use and integration into current research of the outcomes of past and on-going field and laboratory activity.

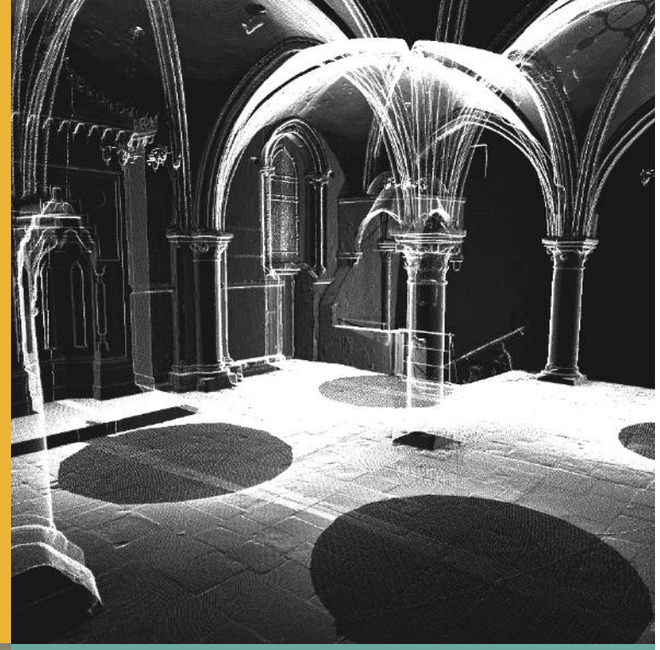
Activities

COMMUNITY BUILDING AND DISSEMINATION

ARIADNE aims to create a community of use fostering the creation, sharing, use and reuse of digital data and will:

- Liaise with National & International initiatives
- Identify current and future stakeholder needs
- Raise awareness of ARIADNE and related research infrastructures
- Promote standards and good practices in data sharing
- Offer training on data issues and use of the research infrastructure
- Publish strategy results, scientific results, guidance and other materials





TRANSNATIONAL ACCESS

ARIADNE will provide access to expert facilities to enable the next generation of researchers to develop skills and expertise within key areas of archaeological data collection, management and integration. Calls for access to designated facilities within the ARIADNE consortium will be advertised to:

- Enable users to co-work with experts in critical phases of their research
- Allow effective use of the research infrastructure
- Support innovative investigations

Calls for transnational access will be advertised.

JOINT RESEARCH ACTIVITIES - DEVELOPING ADVANCED INTEGRATED SERVICES

- **Interoperability** - adapting and integrating existing infrastructures into ARIADNE.
  This activity includes analysing, selecting, designing and deploying tools and API services to enable access to integrated resources.
- **Developing integrated services** - this activity involves designing and building the components of the infrastructure to enhance and improve services to researchers.
- **Addressing complexity** - developing extensions to the CIDOC-CRM for specific archaeological subdomains. Integrating complex entities and relations enabling more accurate documentation of complex situations. Models will be tested on real world case studies to assess their practical suitability.
- **Linked archaeological data** - developing and providing semantic tools for annotating, linking and browsing datasets across ARIADNE. Developing semantic services enabling the creation of mash-ups according to individual research needs. Advising and supporting ARIADNE data providers in the creation and publishing of Linked Data from their datasets.
- **Data mining and natural language processing** - providing tools and proceedures to apply data mining techniques to the integrated infrastructure. To review the indexing and searching of texts (typically grey literature) in an automatic way.
- **Innovative in archaeological research methodology** - to collect and systematically review innovative archaeological research frameworks including eResearch and assess their current application.

The existence of the Integrated Infrastructure will stimulate the creation of new datasets and services, based on the innovative tools, services and methodologies.

The integration of existing datasets, the creation of new ones and the production of synthetic work will generate a continuous and structured stream of data for archaeological research.