



Joined Up Thinking:
The challenges of large scale data integration

Julian Richards,
Director ADS; ARIADNE Deputy Coordinator



CAA 92, Aarhus: Henrik Jarl Hansen
 “European archaeological databases:
 problems and prospects”.



Archaeological Records of Europe - Networked Access

ARENA

Welcome to the ARENA search portal.

Please select a flag from the right to start searching in your language

The ARENA search portal allows you to search for archaeological sites and monuments from six European countries: Demark, Great Britain, Norway, Iceland, Romania and Poland.

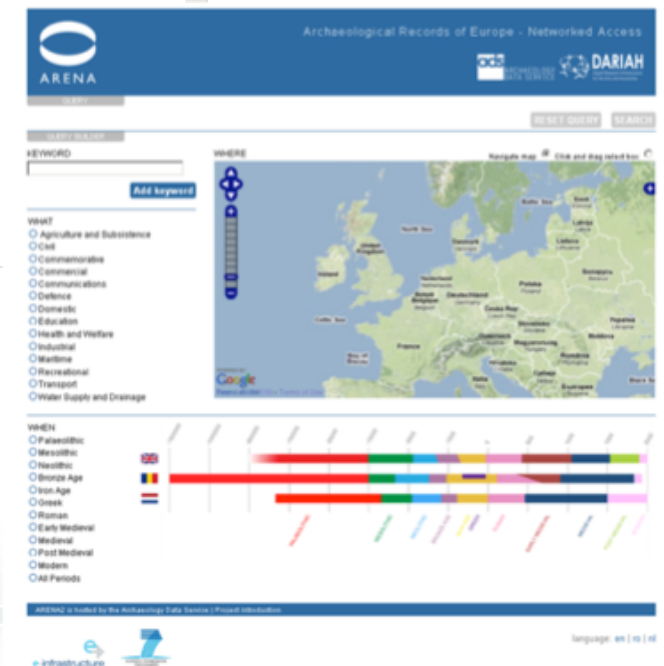
The content of this project does not necessarily reflect the position of the European Community, nor does it involve any responsibility on the part of the European Community.

Education and Culture **Culture 2000**

© ADS 1996- Edited by Jo Clarke, email
 Cite only: <http://ads.ahds.ac.uk> for this page

ARENA2
 (DARIAH) 2009
 Migrated to
 RESTful
 technologies

ARENA project, Culture 2000:
Internet Archaeology 18, 2005
 Based on Z39.50 protocol and
 qualified Dublin Core



Archaeological Records of Europe - Networked Access

ARENA

SEARCH

KEYWORD

WHERE

YEAR

- Agriculture and Subsistence
- Civil
- Commemorative
- Commercial
- Communications
- Defense
- Domestic
- Education
- Health and Welfare
- Industrial
- Maritime
- Recreational
- Transport
- Water Supply and Drainage

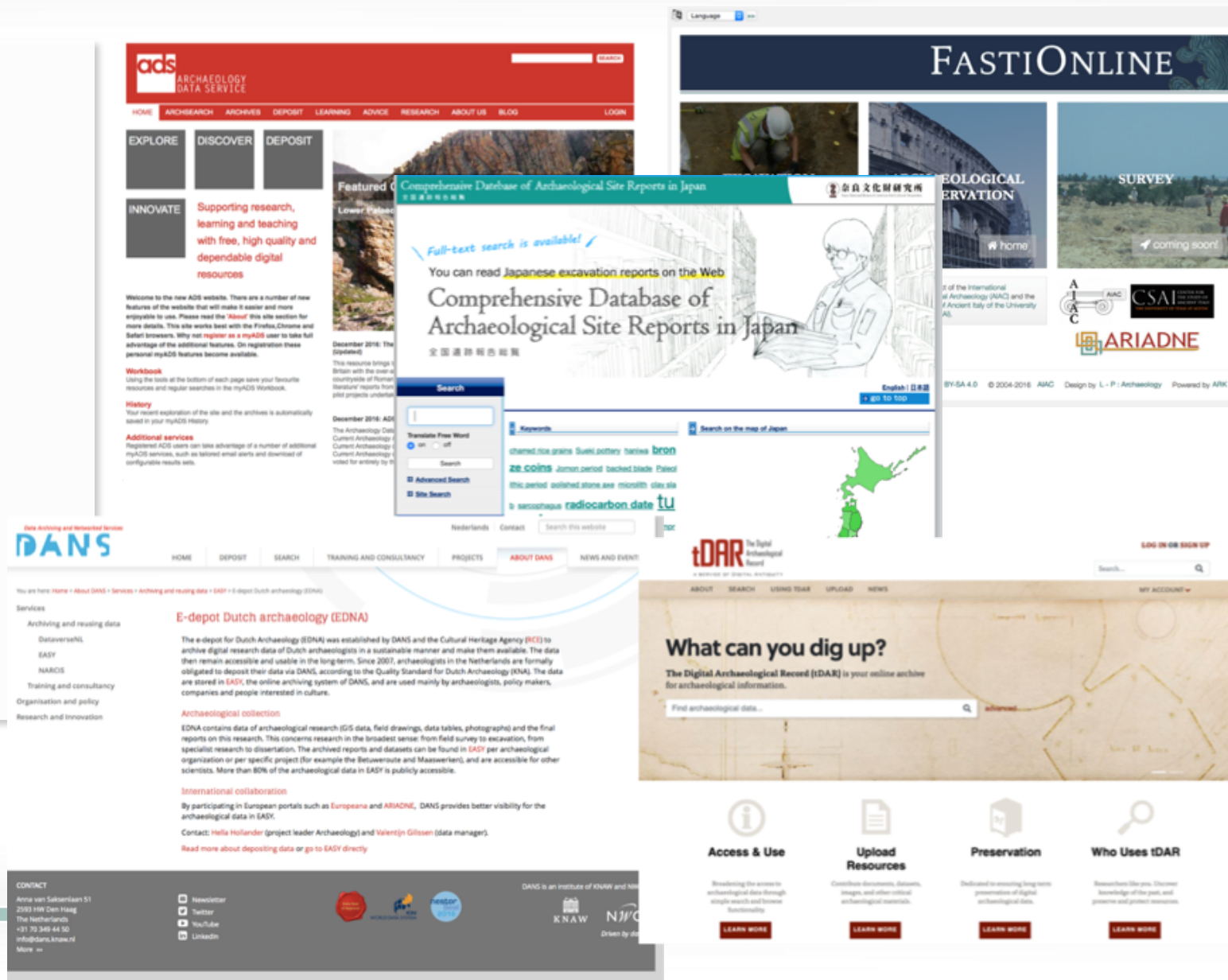
WHEN

- Palaeolithic
- Mesolithic
- Neolithic
- Bronze Age
- Iron Age
- Roman
- Early Medieval
- Medieval
- Post Medieval
- Modern
- All Periods

language: en | en | fr



- Data Integration
 - Multiple datasets
 - Multiple repositories
 - Haves and have-nots
 - Cross border searching
 - Interoperability

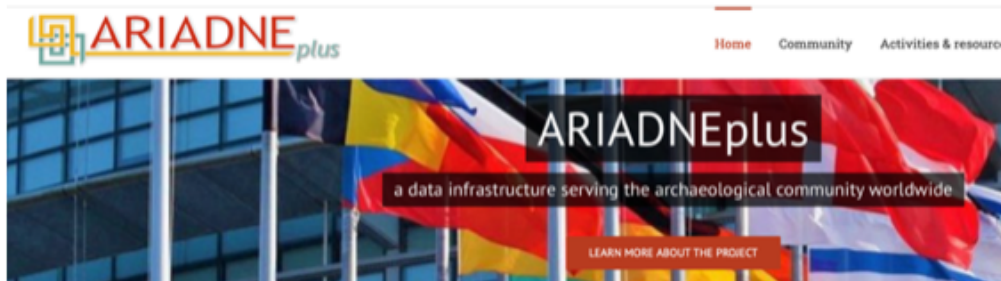


The collage illustrates various challenges and solutions in archaeological data integration:

- ADS Archaeology Data Service:** A website interface showing search options (EXPLORE, DISCOVER, DEPOSIT) and a featured article about a 'Comprehensive Database of Archaeological Site Reports in Japan'.
- FASTIONLINE:** A website interface with a search bar and navigation links like 'SURVEY' and 'coming soon'.
- DANS (Data Archiving and Networked Services):** A website interface with a search bar and a section titled 'E-depot Dutch archaeology (EDNA)'.
- tDAR (The Digital Archaeological Record):** A website interface with a search bar and a section titled 'What can you dig up?'.

At the bottom, there is a contact information section for DANS, including the name Anna van Sabbe, address, phone number, and social media links (Newsletter, Twitter, YouTube, LinkedIn). It also mentions that DANS is an institute of KNAW and NWO, and is driven by the KNAW and NWO logos.

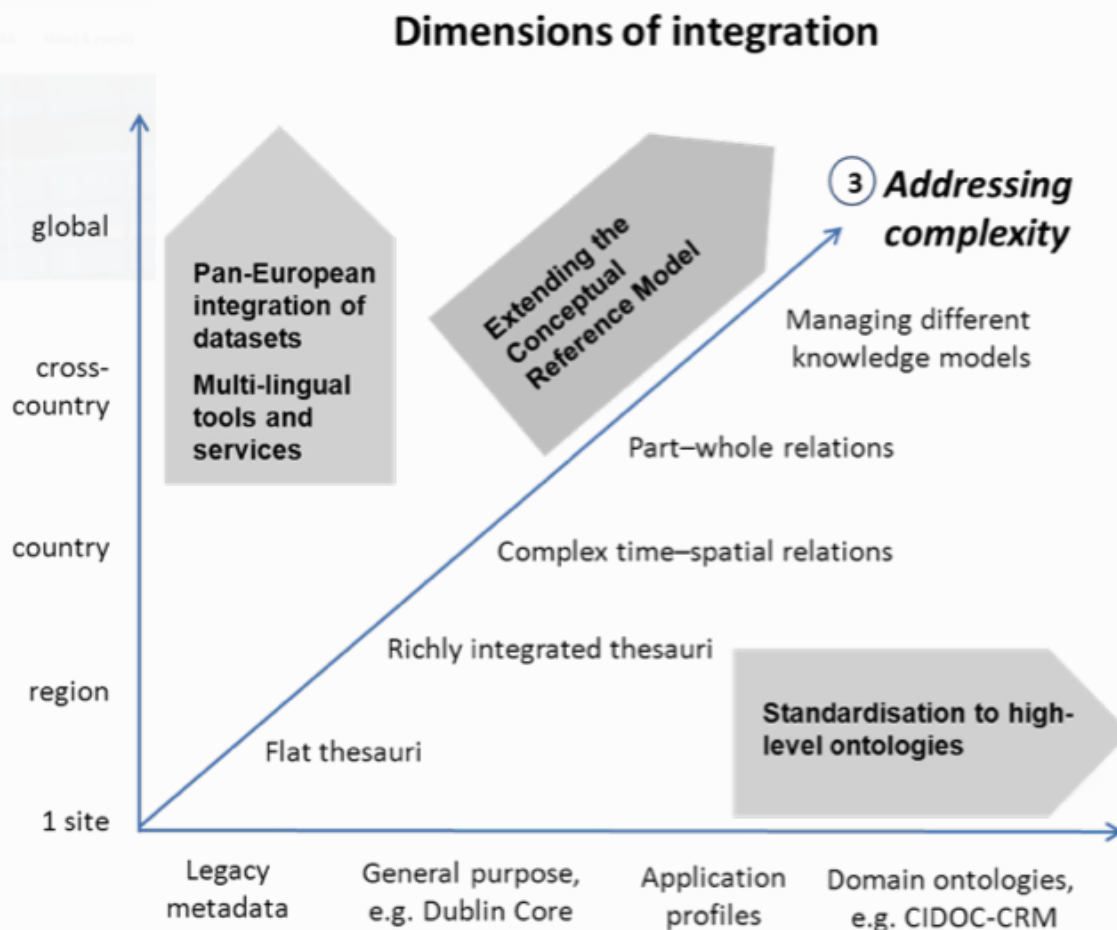




Integrate and effectively serve a research community that studies the past to better understand the present with the tools and the methodology of the future, in the service of culture and society

- 41 Partners
- 23 European countries
- International partners
- Community
- Activities and resources
- Training & TNA

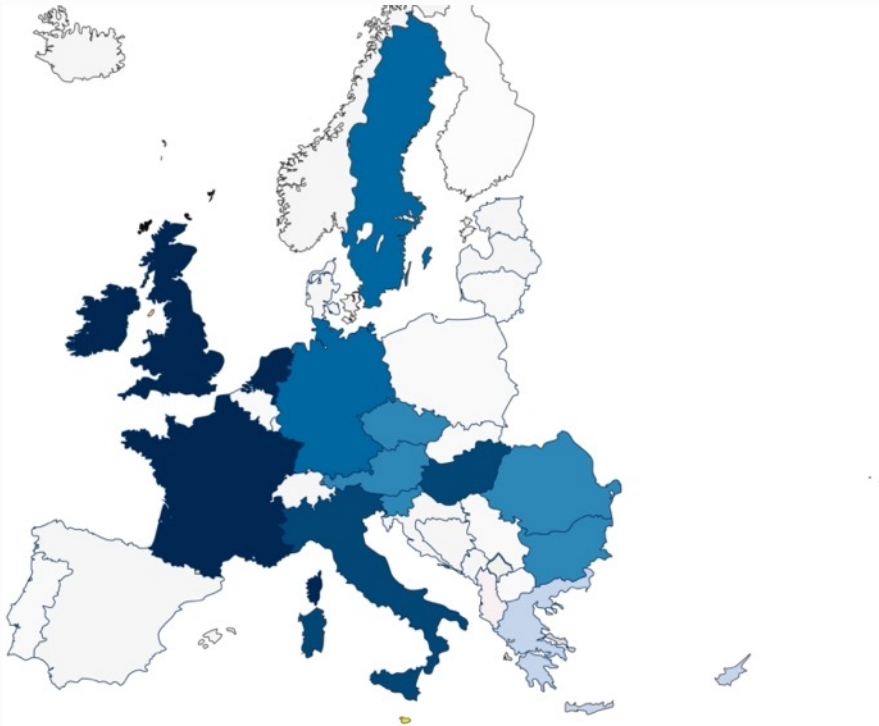
① **Geographic extent and different languages**



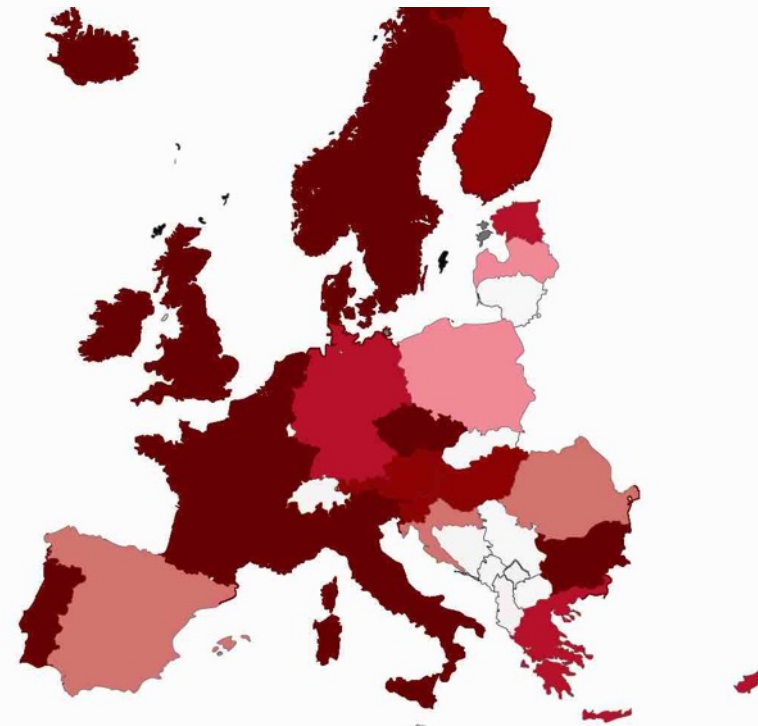
② **Metadata richness and standardisation**



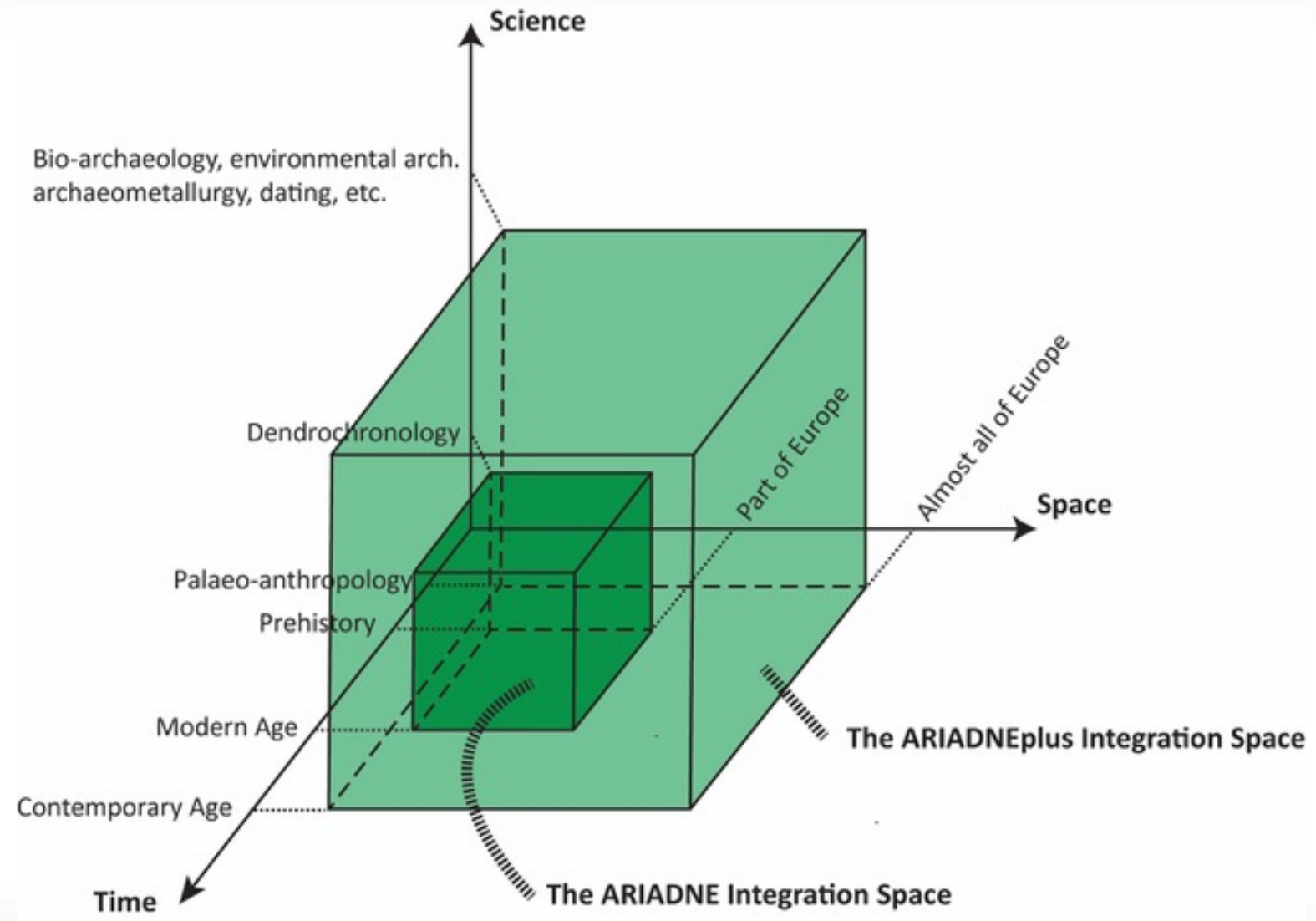
- ARIADNE: 2012-2016
- 24 partners; 18 countries



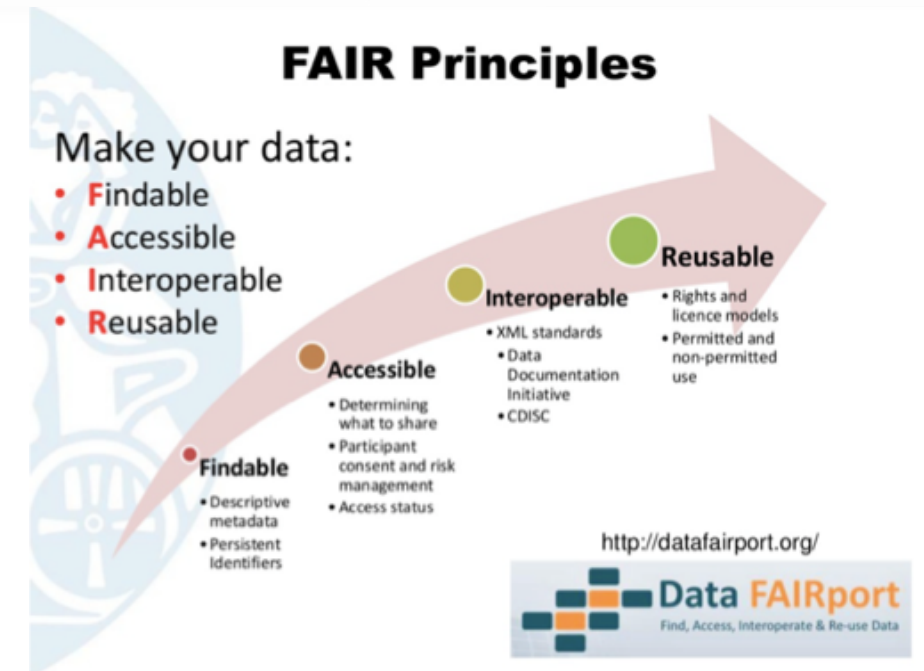
- ARIADNEplus: 2018-2022
- 41 partners; 27 countries



Plus: Argentina, Japan & USA



- Capacity and community building in the sector of SEADDA
- Enabling cross-border / cross-institution resource discovery **i.e. finding data**
- Enabling interoperability – across partners, countries, data types, data schemas **i.e. enabling research**



- **Quantity**
 - Number of **records** in the ARIADNE Catalogue / triplestore
 - Number of **countries** represented
- **Quality**
 - Good **meaningful** search results
 - Level of **granularity** – item level interoperability e.g. individual artefacts, not just sites; individual dates; individual graves, not just cemeteries
 - Integration of new data types
- **Quantity and quality** of **re-use** i.e. new users; new research

- **Human interface – ARIADNE portal**

- ARIADNE Catalogue (AC)
 - Harvested collection level metadata, but also item level data
 - Links to distributed digital and paper resources
- What, When, Where searches
 - Enhanced map-based searching
- Enhanced queries, specific to data types – use of VREs

- **Machine interface – via APIs**

- Mirrors what is available via the catalogue
- Makes it available as Linked Open Data
- Allows other organisations to implement their own portal or services based upon the ARIADNE AC

- **User needs study** – which searches do we wish to support?
- **Data availability** – “low hanging fruit” – critical mass of item level data e.g. reports, sites, finds > “ARIADNE Resource types”
- **Ontologies** – CIDOC-CRM – to help provide an Object-Orientated data structure – shows how data types are related
- **Data mappings**
 - What? – Getty AAT
 - When? – Period0
 - Where? – WGS84
- **Application profiles** – subsets of the CIDOC-CRM we use for item level integration – working groups



X3ML Toolkit

Aggregative infrastructure



GraphDB FREE

- Import
- Explore
- Graphs overview
- Class hierarchy
- Class relationships
- Visual graph**
- Similarity
- SPARQL
- Setup
- Help

Visual graph



- Import
- Explore
- Graphs overview
- Class hierarchy
- Class relationships
- Visual graph**
- Similarity
- SPARQL
- Setup
- Help

Machine interface - The RDF triplestore: 180m triples



Record GENERAL NOTT

Record GENERAL NOTT

Types: **aocat:AO_Individual_Data_Resource**

RDF rank: 0

aocat:has_description **WELSH BARQUE, 1892** ^{en}

aocat:has_title **GENERAL NOTT** ^{en}

rdfs:label **Record GENERAL NOTT**

aocat:has_access_rights <http://archaeologydataservice.ac.uk/advice/termsOfUseAndAccess>

aocat:has_identifier **Depositor ID: SV 81 SE 129** Show 1 more


aocat:has_original_id **1176424**

aocat:was_issued **15 Sep 2004** ^{10:dateTime}

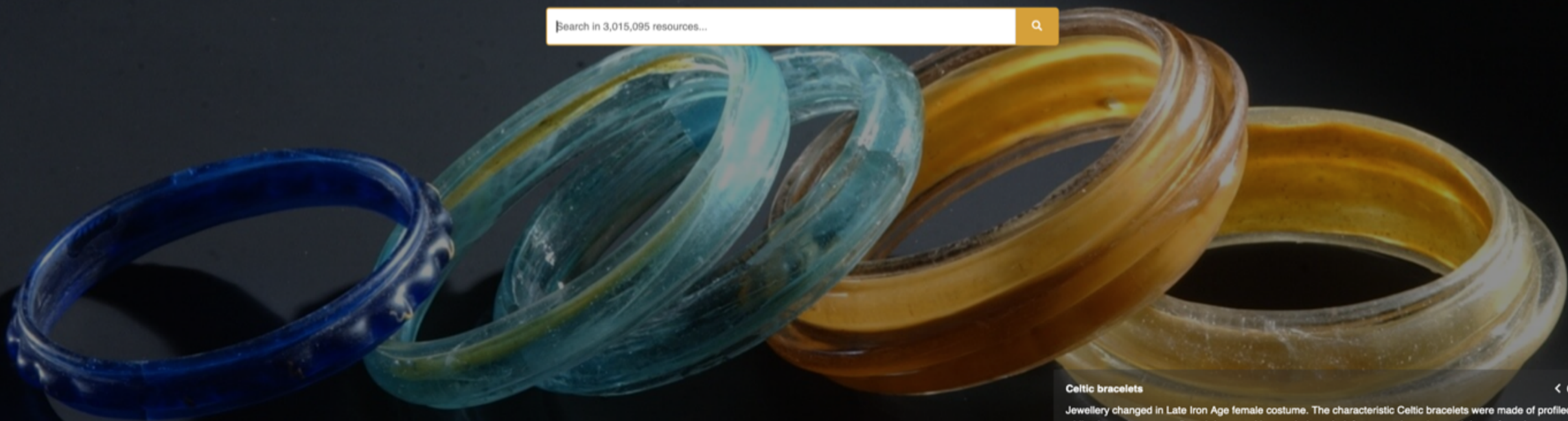
aocat:was_modified **15 Sep 2004** ^{10:dateTime}

SPARQL endpoints
 Getty AAT & Perio.Do
 URIs

 ARIADNEplus

All fields Time period Place Title Getty AAT Subject 

Search in 3,015,095 resources...



Celtic bracelets




















< 6 / 36 > ||

Jewellery changed in Late Iron Age female costume. The characteristic Celtic bracelets were made of profiled glass, whilst there also appear figural decorated bronze belts or belt fasteners, bracelets and rings of precious metal. Novo mesto, Slovenia. Late Iron Age cemetery at Kapitejska njiva, various graves (3rd–2nd century BC). Kept by Dolenjski muzej Novo mesto. Photo: Borut Križ.

> [Getty AAT Subjects](#)

▼ **Publisher**

Name Hits ▼

 Archaeology Data Service	1098725
 British Museum	945228
 Historic Environment Scotland	334636
 Archaeological Information System of the Czech Republic (AIS CR)	229999
 Nara National Research Institute for Cultural Properties	139368
 Data Archiving and Networked Services (DANS)	99291
 HNM	59684
 CEIPAC - Universitat de Barcelona	57054
 Institut national de recherches archéologiques préventives (Inrap)	37616
 Swedish Rock Art Research Archives	25223
 National Heritage Institute - Romania	18279
 International Association for Classical Archaeology	14279
 ZRC SAZU	8775
 Aarhus University	8687
 CENIEH	8405
 Heidelberg Academy of Sciences and Humanities	7517
 IDACOR (CONICET/UNC)	2502
 National Institute of Archaeology with Museum, Bulgarian Academy of Sciences	1952
 Swedish National Data Service	484

Get 20 more results..



National Zooarchaeological Reference Resource (NZRR)



As part of Historic England (HE)'s Improving Sector Reference Resources project (project 7306), the aim of the Building a National Zooarchaeological Reference Resource (NZRR) project (project 7444) is to improve accessibility to zooarchaeological reference collections and facilitate zooarchaeological research across all sectors. Led by David Orton and Eva Fainnell at the University of York, a work..

Resource type: Scientific analysis

Place: World, europe, united kingdom, scotland, World, europe, united kingdom, wales, World, europe, united kingdom, england

Publisher: Archaeology Data Service

Original subject: Antler, Bone, Tooth, Animal bone, Ecofacts



Wearmouth and Jarrow: Northumbrian Monasteries in an Historic Landscape



In 2009 Newcastle and Durham Universities initiated a project aimed at exploring the landscape setting of the early Christian monastic sites of Wearmouth and Jarrow, from their foundation some seven centuries after the birth of Christ, to their place in contemporary society. Bringing together a large team of professionals with funding from English Heritage, the project established new evidence for..

Resource type: Fieldwork archive

Place: World, europe, united kingdom, england, tyne and wear, south tyneside, jarrow, World, europe, united kingdom, england, tyne and wear, sunderland, monkwearmouth

Publisher: Archaeology Data Service

Original subject: Optically stimulated luminescence, Building elevation survey, Core sampling, Geophysical survey, Geophysical magnetometer



Northamptonshire Historic Landscape Character Assessment



The Northamptonshire Historic Landscape Character Assessment provides a detailed review and description of the historic character of the Northamptonshire Landscape. The Northamptonshire HLCA seeks to analyse the general surviving historic character of the County and group areas of broadly similar character into Character Types, and then to sub-divide these into geographically distinct Character Ar..

Resource type: Fieldwork archive

Place: World, europe, united kingdom, england, northamptonshire

Publisher: Archaeology Data Service

Original subject: Historic landscape characterisation



Land adjacent to A5, Lutterworth, Leicestershire: Archaeological evaluation (OASIS ID: headland3-366701)



An archaeological evaluation was undertaken by Headland Archaeology, on Land to the east of the A5, Lutterworth, Leicestershire. The evaluation identified agricultural use of the land in the form of extensive post-medieval ridge and furrow field system remains, undated field boundary and drainage ditches and a former hedge-line field boundary. Alluvial deposits and the course of a paleochannel wer..

Resource type: Fieldwork archive

Place: World, europe, united kingdom, england, leicestershire, lutterworth

Publisher: Archaeology Data Service

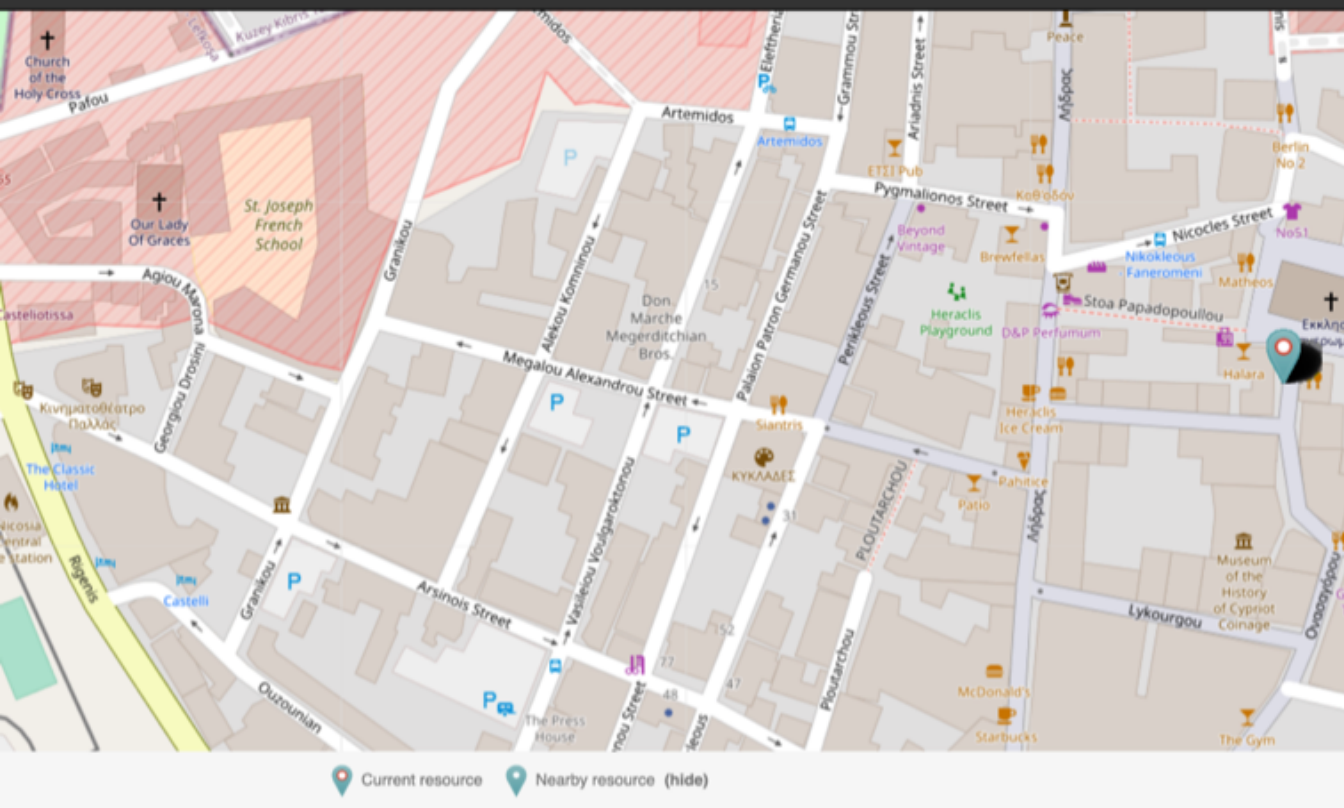
Original subject: Evaluation, Sample trenches, Ridge and furrow, Rural commercial



Land adjacent to Glebe Farm, Coventry Road, Lutterworth: Archaeological monitoring of boreholes (OASIS ID: headland3-369514)



Archaeological borehole monitoring was undertaken by Headland Archaeology on land adjacent to Glebe Farm, Coventry Road, Lutterworth. Evidence suggesting an earlier route for the watercourse slightly to the south of its current position to the west of the boreholing area were produced along with the suggestion that intermittent and conjoining water sources contributed to deposit a sequence of allu..



📍 Current resource
 📍 Nearby resource (hide)

Publisher: The Cyprus Institute <https://www.cyl.ac.cy>

Created: 2020-01-13

Issued: 2020-01-23

Last updated: 2020-01-23

👤 Responsible person and organisations

Creator: The Cyprus Institute <https://www.cyl.ac.cy>

Contributor: The Cyprus Institute <https://www.cyl.ac.cy>

Owner: Bank of Cyprus Cultural Foundation (BOCCF) <https://www.boccf.org>

Responsible: Avgoustinos Avgousti <https://www.cyl.ac.cy/index.php/cyl/general-information/administration-people/author/156-avgoustinos-avgousti.html>

📄 Licence information

Access Policy: <http://creativecommons.org/licenses/by-nc/4.0/>

🖼️ Images

AR Gros. Peter I, 1359-1369

📄 Description

Coin Gros, Frankish Period, issued by Peter I. Weight: 4.41 gm, diameter: 25 mm, axis: 11:00. From Nicosia. Inscription: obverse 'PIERE PAR L reverse 'DE IERUSALEM E DE CHYPRE

📄 Metadata

Original ID: 1998-04-08

Landing page: <https://numismatics-medieval.dioptra.cyl.ac.cy/?q=node/132>

Language: English

Resource type: Coin

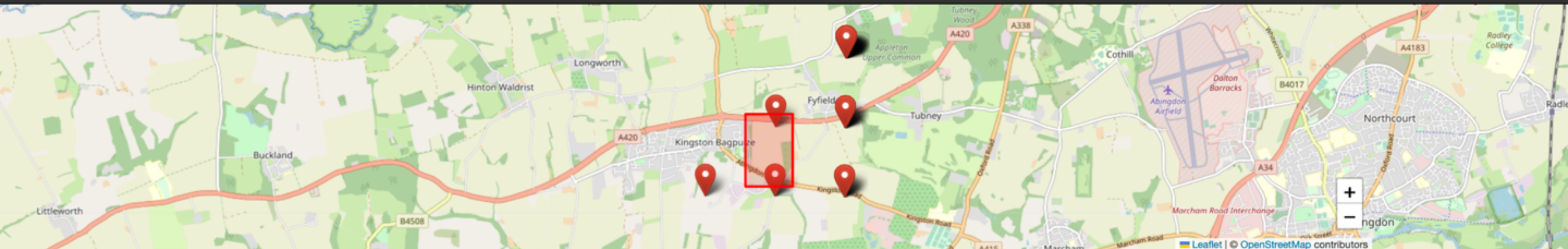


Thematically similar resources based on terms in common of:

Subject & Time period

AR Gros. Hugh IV, 1324-1359

← Back to search results



Current resource Nearby resource (hide)

Site and Post-Excavation data from an evaluation at Abingdon Road, Kingston Bagpuize 2017



Description

This collection comprises reports, site records, site photographs, vector drawings, and finds catalogues from an evaluation carried out in September and October of 2017 prior to a proposed new residential development.

Metadata

Original ID: 1003980

Landing page: <https://doi.org/10.5284/1084990>

Language: English

Resource type:

Fieldwork archive

Fieldwork report

Subject - AAT:

burial mounds (en)

pots (containers) (en)

Subject - Original:

Environmental sampling

Evaluation

Photographic survey

Sample trenches

Resource links

View resource at provider

Json Xml Rdf Cite Report an issue

Resource is part of

ADS Archives

Thematically similar

Thematically similar resources based on terms in common of:

Subject & Time period

- County Durham and Darlington Historic Landscape Characterisation (HLC)
- Archaeological mitigation on land at Rockingham Forest Park, Wansford Road, King's Cliffe, Northamptonshire (OASIS ID: molanort1-361720)
- Towns in Transition in the First Millennium AD: York as a Case Study
- Purbeck Papers
- Thornhill Farm, Fairford, Gloucestershire
- The Marsh of time: the saving of Sutton Common
- Worcestershire Historic Landscape Characterisation (HLC)

Site and Post-Excavation data from an evaluation at Abingdon Road, Kingston Bagpuize 2017

Oxford Archaeology (South), 2021. <https://doi.org/10.5284/1084990>. [How to cite using this DOI](#)

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Introduction

This collection comprises reports, site records, site photographs, vector drawings, and finds catalogues from an evaluation carried out in September and October of 2017 prior to a proposed new residential development.

In October 2017 Oxford Archaeology (OA) undertook an archaeological trial trench evaluation of the site of a proposed new residential development within three fields on land to the north of Abingdon Road, on the eastern side of Kingston Bagpuize, Oxfordshire (NGR SU 413 981). The work was commissioned by the Environmental Dimension Partnership Ltd (EDP) on behalf of Lioncourt Strategic Land.

A barrow previously identified by geophysical survey was confirmed in the central field and an additional ditch identified by the evaluation may represent an outer ring ditch or an associated enclosure, potentially of Bronze Age date. A small number of early prehistoric struck flints, mostly in later features may represent knapping activity in this landscape.



Archaeological Evaluation at Abingdon Road: View of animal burial in Trench 12, Pit 1203 looking North

Site and Post-Excavation data from an evaluation at Abingdon Road, Kingston Bagpuize 2017

Oxford Archaeology (South), 2021. <https://doi.org/10.5284/1084990>. [How to cite using this DOI](#)

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Downloads




[Reports](#) | [Images](#) | [CAD \(Vector graphics\)](#) | [Spreadsheets](#) | [Site Records](#)

Images

Image metadata	CSV	50 Kb
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Records 1 - 50 of 168

Pages: [1](#) | [2](#) | [3](#) | [4](#) | [>](#)

	Trench 2, trench shot looking NW (KBLA16_0007.jpg)	JPG	2.15 Mb
	Trench 2, trench shot looking SE (KBLA16_0009.jpg)	JPG	2.10 Mb
	Trench 2, S.200 [203] & representative section. Looking NE	JPG	2.09 Mb



All fields
 Time period
 Place
 Title
 Getty AAT Subject
 ?

sw|



- Marshalling yards** / 鐵路調車場 (*zh-hant*) / Centros de clasificación (*es*)
 / Tié lù diào chē chǎng (*zh-latin-pinyin-x-hanyu*) / Tie lu diao che chang (*zh-latin-pinyin-x-notone*)
 / T'ieh lu tiao ch'ê ch'ang (*zh-latin-wadegile*) / Rangeerterreinen (*nl*) / Marshaling yards (*en*)
 / Hump yards (*en*) / Marshalling yard (*en*) / Yards, marshalling (*en*) / Centro de clasificación (*es*)
 / Classification yards (*en*) / Switching yards (*en*) / Switchyards (*en*) / Rangeerterrein (*nl*) ⓘ
- Sweathouses** / Saunas (*es*) / Zweethuten (*nl*) / Lodges, sweat (*en*) / Houses, sweat (*en*)
 / Sauna (*es*) / Sweat lodges (*en*) / Sweatlodges (*en*) / Sweat houses (*en*) / Sweathouse (*en*)
 / Zweethut (*nl*) ⓘ
- Swords** / 劍 (*zh-hant*) / Zwaarden (*nl*) / Espadas (*es*) / Jiàn (*zh-latin-pinyin-x-hanyu*)
 / Jian (*zh-latin-pinyin-x-notone*) / Chien (*zh-latin-wadegile*) / Zwaard (*nl*) / Sword (*en*)
 / Blanke gevestwapens (*nl*) / Espada (*es*) / Blank gevestwapen (*nl*) ⓘ
- Railroad signal towers** / Seintorens (*nl*) / Torres de señalización (*es*) / Railway signal towers (*en*)
 / Signal towers (*en*) / Seintoren (*nl*) / Interlocking towers (*en*) / Torre de señalización (*es*)
 / Signal towers, railroad (*en*) / Railroad signal tower (*en*) / Signal cabin (*en*) / Signalboxes (*en*)
 / Signal boxes (*en*) / Switch towers (*en*) ⓘ
- Swimming pools** / 游泳池 (*zh-hant*) / Piscinas (*es*) / Zwembaden (*nl*)
 / You yong chi (*zh-latin-pinyin-x-notone*) / Yu yung ch'ih (*zh-latin-wadegile*)
 / Yóu yǒng chí (*zh-latin-pinyin-x-hanyu*) / Zwembad (*nl*) / Natatoria (*en*) / Swimming pool (*en*)

The Baths of Constantine

< 2 / 38 >

A characteristic expression of Roman civilization, the baths were one of the most widespread public places at that time. In addition to their hygienic function, the thermal baths also had a strong social role.

The power of the Getty AAT hierarchy

Searching on “weapons” only:
753 resources

The screenshot shows the ARIADNE PORTAL search results for the query "weapons". The interface includes a search bar at the top with the text "Search 3,238,706 resources...". Below the search bar, there are filters for "Where" (a world map) and "When" (a histogram showing the number of resources over time). The main results area displays three entries:

- Neuvy-Deux-Clochers, Tour de Vesvre (Cher-Centre), [rapport de fouilles]**
Si plusieurs indices attestent une occupation antérieure, les premiers aménagements pérennes reconnus dateraient du tout début du Xe siècle. Il s'agit d'un ensemble fortifié construit sur un modèle bi-polaire peu courant, ceint d'un réseau de fossés. Cet ensemble comprend une motte castrale haute de plus de 10 m et de 40 m de diamètre, une vaste basse-cour d'un hectare et demi et une plate-forme d...
Resource type: Fieldwork report
Place: Tour de vesvre, Neuvy-deux-clochers
Publisher: Institut national de recherches archéologiques préventives (Inrap)
Original subject: Arme, Atelier métallurgique, Bâtiment commercial, Céramique médiévale, Faune
Getty AAT Subjects: Weapons, Hearths, Houses, Pits (earthworks), Roads
- Aspeberget Tanum - Bild 16 - Tanum 12:1**
Thu IS3/seminarium...
Resource type: Rock art
Place: Bohuslän, Sweden, Tanum, Västra götaland, Aspeberget tanum
Publisher: Swedish Rock Art Research Archives
Original subject: Cirkefegur, Djurfigur, Djurfigur lågel, Djurfigur hjort, Djurfigur hund
Getty AAT Subjects: Weapons, Anthropomorphic, Women (female humans), Boats, Cattle
- Aspeberget Tanum - Bild 17 - Tanum 12:1**
Thu IS3/seminarium...
Resource type: Rock art
Place: Bohuslän, Sweden, Tanum, Västra götaland, Aspeberget tanum
Publisher: Swedish Rock Art Research Archives
Original subject: Cirkefegur, Cirkefegur hjulkors, Detalj, Människofigur, Människofigur bägskytt

Searching on “weapons” and narrower terms:
24,834 resources

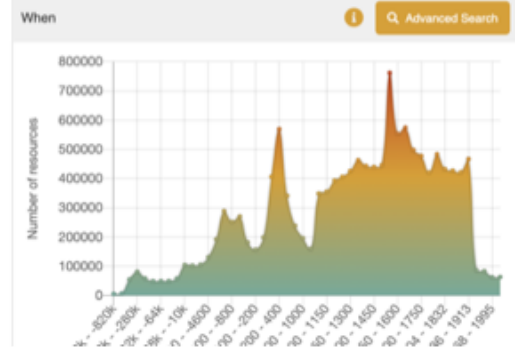
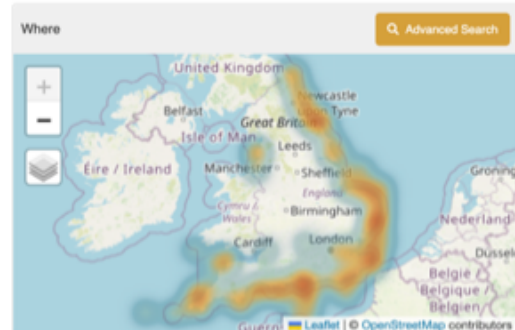
The screenshot shows the ARIADNE PORTAL search results for the query "weapons" and narrower terms. The interface includes a search bar at the top with the text "Search 3,238,706 resources...". Below the search bar, there are filters for "Where" (a world map) and "When" (a histogram showing the number of resources over time). The main results area displays three entries:

- Neuvy-Deux-Clochers, Tour de Vesvre (Cher-Centre), [rapport de fouilles]**
Si plusieurs indices attestent une occupation antérieure, les premiers aménagements pérennes reconnus dateraient du tout début du Xe siècle. Il s'agit d'un ensemble fortifié construit sur un modèle bi-polaire peu courant, ceint d'un réseau de fossés. Cet ensemble comprend une motte castrale haute de plus de 10 m et de 40 m de diamètre, une vaste basse-cour d'un hectare et demi et une plate-forme d...
Resource type: Fieldwork report
Place: Tour de vesvre, Neuvy-deux-clochers
Publisher: Institut national de recherches archéologiques préventives (Inrap)
Original subject: Arme, Atelier métallurgique, Bâtiment commercial, Céramique médiévale, Faune
Getty AAT Subjects: Weapons, Hearths, Houses, Pits (earthworks), Roads
- Des occupations funéraires et domestiques depuis le Néolithique ancien jusqu'à la fin du haut Moyen Âge aux sources de la Vanne, Fontvannes, Aube, "Les Tomelles", rapport de fouilles**
Le Néolithique tout d'abord est représenté par au moins un bâtiment de tradition danubienne et plusieurs fosses. Une sépulture isolée et quelques poteaux se rattachent à une occupation du Néolithique final. La culture matérielle est indigène et se limite à quelques éléments lithiques pour le Néolithique ancien ; la sépulture du néolithique final a fourni des éléments céramiques caractéristiques...
Resource type: Fieldwork report
Place: Fontvannes, Les tomelles
Publisher: Institut national de recherches archéologiques préventives (Inrap)
Original subject: Édifice, Agrafe, Anthropologie, Archéozoologie, Céramique romaine
- Occupations protohistoriques et antiques en bord de voie et de rivière, Boult-sur-Suippe, Marne "Le Terme Bassin" Grand Est, rapport de fouille**
La fouille a révélé trois principales phases d'occupation. La première, très limitée, se rapporte au Premier Âge du Fer. Elle est matérialisée par une petite série de fosses de reet pour lesquelles le mobilier céramique suggère une appartenance au Hallstatt

Filters

All fields Search 3,238,706 resources...

Clear All Filters



Results

Time: 0.22s. Total: 580. Page: 1 / 29

Getty AAT Subjects: warships

« 1 2 3 4 5 »

Order Issued Date Per page 20

- Colossus Dive Trail Maintenance and Wheel Wreck Dating 2019**

This project undertook maintenance of the Colossus dive trail and the collection of further dating evidence from the Wheel Wreck to aid the identification of this wreck. Both sites are protected historic wrecks and are only about six kilometres apart. The rationale behind combining these two projects was that considerable financial savings can be made by combining the fieldwork into a single event..

Resource type: Maritime
Place: World, europe, united kingdom, england, cornwall, scilly, isles of
Publisher: Archaeology Data Service
Original subject: Photogrammetric survey, Photographic survey, Scattered vessel structure, Warship, Shipwreck
Getty AAT Subjects: Warships, Bottles, Ships, Sherds, Wrecks (sites)
- TEARING LEDGE, WESTERN ROCKS**

Designated site assessment carried out of the wreck site, probably that of 'Eagle', part of Sir Cloudisley Shovell's fleet su discovered in 1976, could not be dived in 2004...

Resource type: Fieldwork
Place: England, isles of scilly, isles of scilly
Publisher: Archaeology Data Service
Original subject: Geophysical survey, Warship
Getty AAT Subjects: Warships
- WARSHIP HAZARDOUS, BRACKELSHAM BAY**

Assessment of the Protected Wreck Site to inform future work, this was carried out between 2008 and 2010 as a site eval OASIS Online Form...

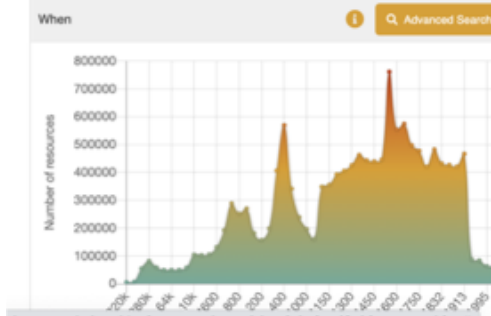
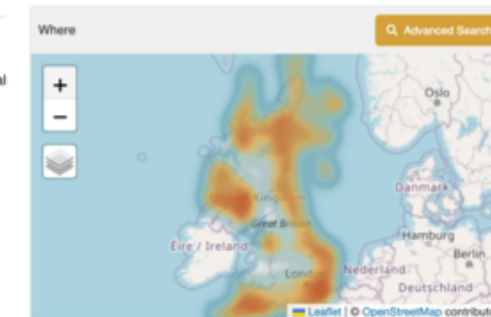
Resource type: Fieldwork
Place: England, west sussex, chichester, east wittering
Publisher: Archaeology Data Service
Original subject: Geophysical survey, Warship

Searching on "warships" and narrower terms: 1023 resources

Filters

All fields Search 3,238,706 resources...

Clear All Filters



Results

Time: 0.11s. Total: 1,023. Page: 1 / 52

Getty AAT Subjects: warships

« 1 2 3 4 5 »

- UNKNOWN: NORTH SEA**

SUBMARINE, MARITIME Council: ABERDEEN, CITY OF..

Resource type: Maritime
Place: Scotland, maritime - aberdeen city of, aberdeen, city of
Publisher: Historic Environment Scotland
Original subject: Submarine
- U-297 [POSSIBLY]: ATLANTIC**

SUBMARINE, MARITIME Council: MARITIME..

Resource type: Maritime
Place: Scotland, maritime - offshore, maritime
Publisher: Historic Environment Scotland
Original subject: Submarine
- U-36: ATLANTIC**

SUBMARINE, MARITIME Council: MARITIME..


Resource type: Maritime
Place: Scotland, maritime - offshore, maritime
Publisher: Historic Environment Scotland
Original subject: Submarine
- UNKNOWN: NORTH CHANNEL**

SUBMARINE, MARITIME Council: ARGYLL AND BUTE..

Resource type: Maritime

Searching on "warships" only: 580 resources; England only

Thirteen ARIADNEplus resource types

 **ARIADNE PORTAL**

Search Catalogue Browse Services About

▼ Resource type

Enter text to filter on Resource types. Name Hits

Site/monument	1192193
Artefact	537184
Coin	470788
Fieldwork	395124
Fieldwork report	276850
Fieldwork archive	113353
Inscription	83357
Maritime	33421
Rock art	26805
Date	9015
Scientific analysis	7785
Building survey	213
Burial	42


> Getty AAT Subjects

> Publisher

> Contributor

Titulus pictus "desiderantur" en ánfora Dressel 20 hallado en Roma...


Resource type: Inscription
Place: Roma
Publisher: CEIPAC - Universitat de Barcelona
Original subject: Inscribed object, Vessel

 **Titulus pictus null en ánfora Dressel 20**

XXCIIIS

Titulus pictus "desiderantur" en ánfora Dressel 20 hallado en Roma...


Resource type: Inscription
Place: Roma
Publisher: CEIPAC - Universitat de Barcelona
Original subject: Inscribed object, Vessel

 **Titulus pictus null en ánfora Dressel 20**

XXCV

Titulus pictus "desiderantur" en ánfora Dressel 20 hallado en Roma...

Resource type: Inscription
Place: Roma
Publisher: CEIPAC - Universitat de Barcelona
Original subject: Inscribed object, Vessel

 **Titulus pictus XXCV (85) en ánfora Dressel 20**

XXCV

Titulus pictus XXCV en ánfora Dressel 20 hallado en Roma...

Resource type: Inscription
Place: Roma
Publisher: CEIPAC - Universitat de Barcelona
Original subject: Inscribed object, Vessel

Filters

All fields Search 3,238,706 resources...

Filter By Year Filter By Time Periods

Year (from) Year (to) Apply

- > Resource type
- > Getty AAT Subjects
- > Publisher
- > Contributor

PeriodO

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 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), Ryan Shaw (University of North Carolina at Chapel Hill), and Eric Kansa (OpenContext). Patrick Golden developed the PeriodO software and Sarah Buchanan helped curate the initial dataset. Our work is funded by a Digital Humanities Start-Up Grant from the Office of Digital Humanities at the National Endowment for the Humanities.

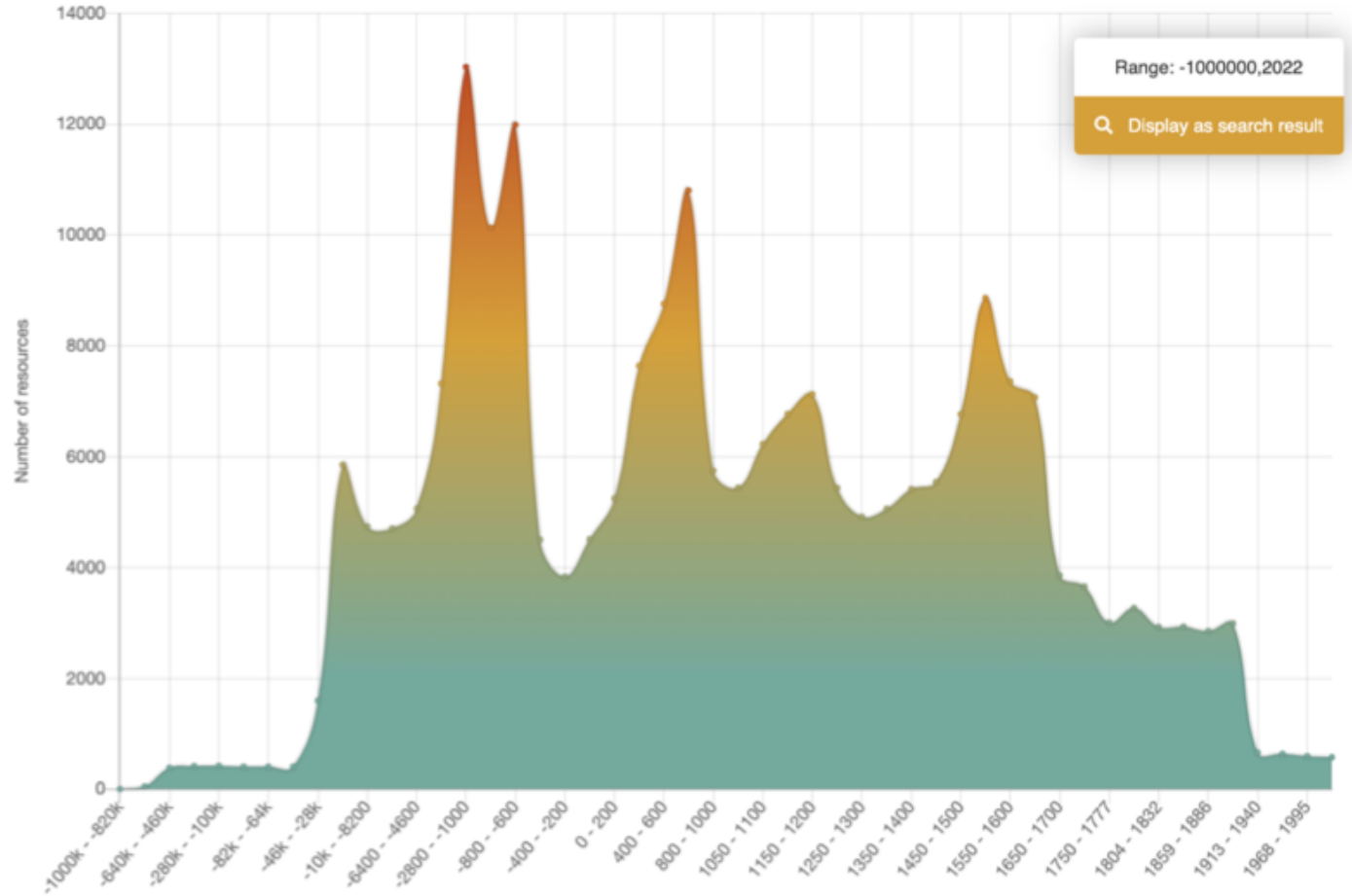
Tell me more.

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. Contact us and ask whatever you want!

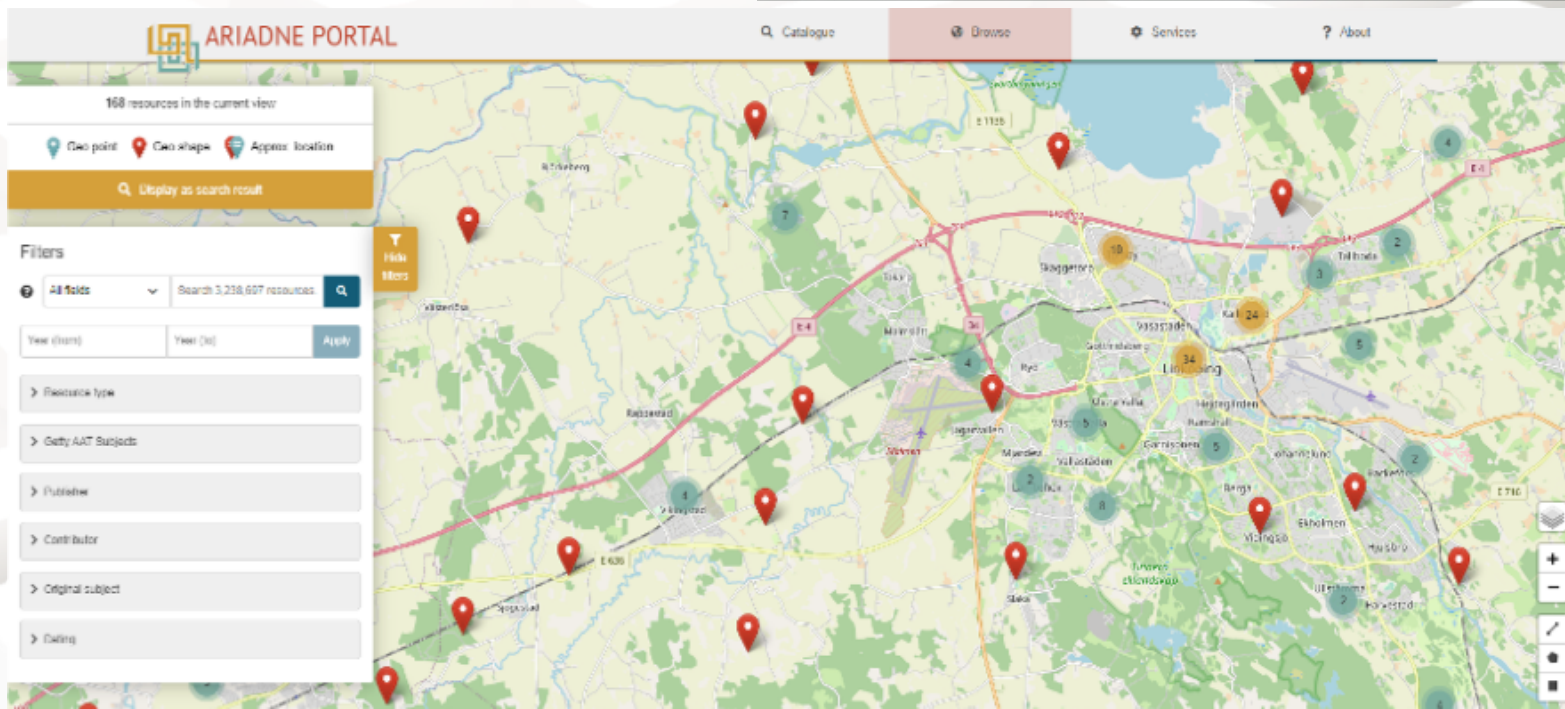
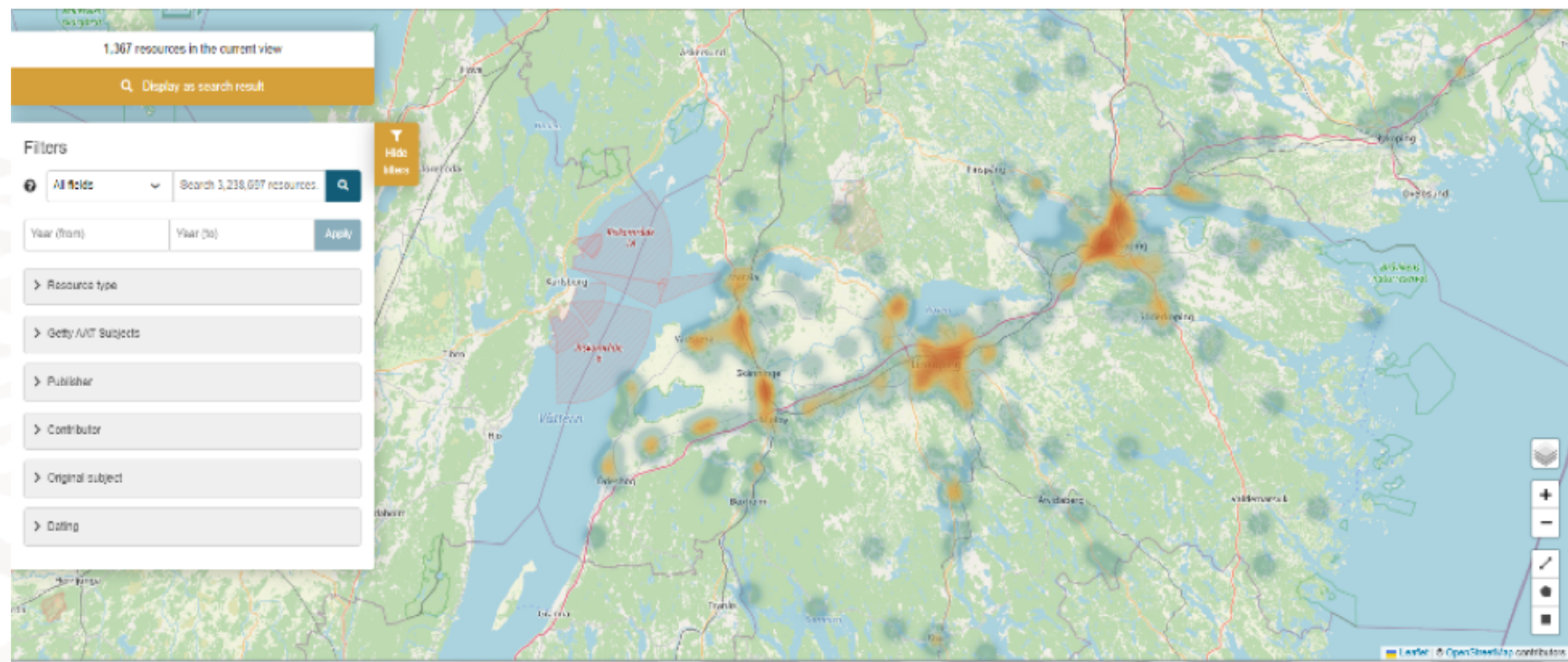
Browse when

Scroll on the timeline to zoom. Drag to pan. Hold shift and drag a selection to apply a time range. Click "Display as search result" to search the time range in the catalogue.



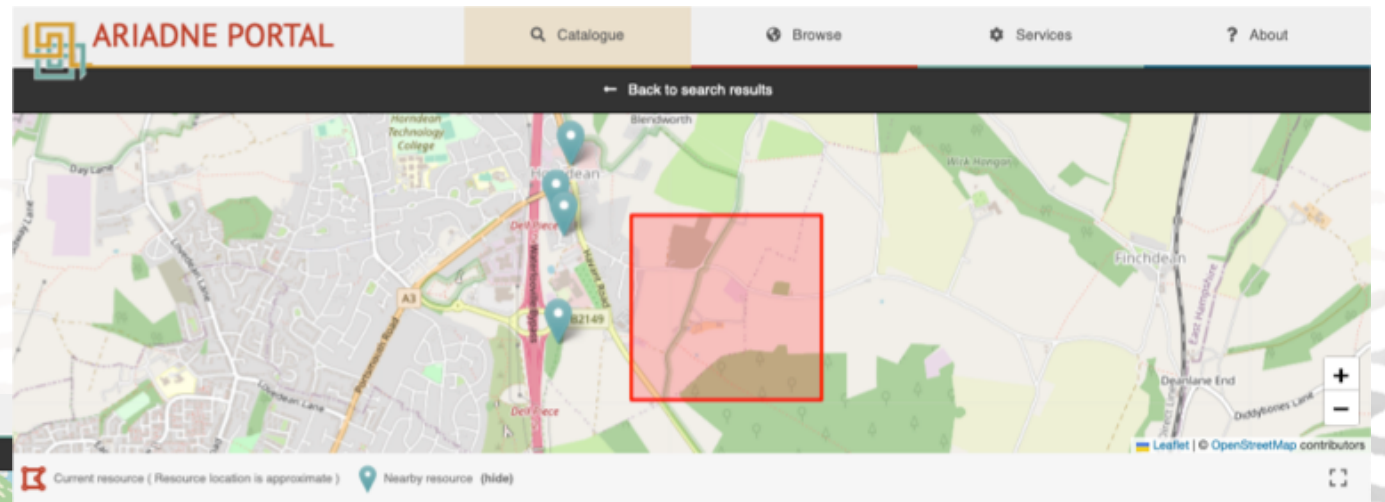
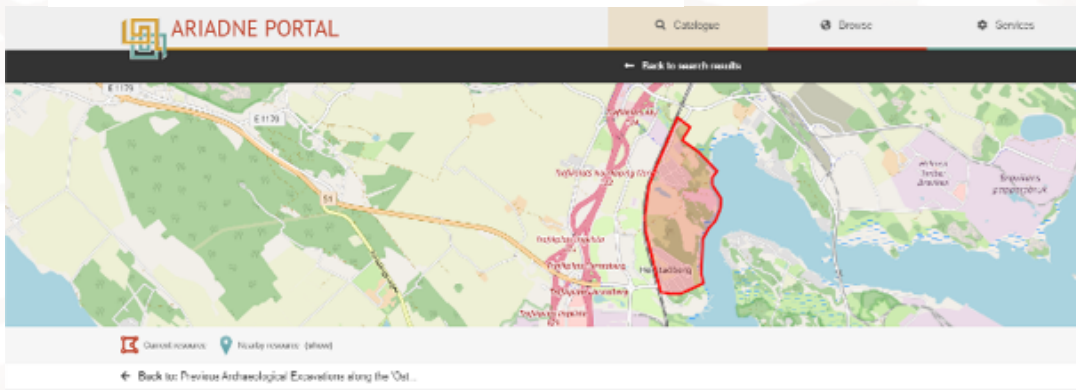
WGS84

- Latitude
- Longitude



Heat maps
Cluster points

Polygon support



Gold INGOT

Description

A small and complete gold ingot of 1.17g (17.9gn). The ingot is sub triangular, 8.9mm in length, 5.7mm wide and 1.9mm thick. The surfaces show signs of hammering and hand working. There are no stamps or markings. Both ends are rounded without evidence of cutting.

Metadata

Original ID: HAMP-5015EC

Resource links

View resource at provider
Json Xml Rdf Cite Report an issue

Resource is part of

Sveolsh National Data Service Online Catalogue

Thematically similar

Thematically similar resources based on terms in common of

Subject & Time sorted

- Previous Archaeological Excavations along the 'Östanken' Railway Corridor 1965-2012: Land use planning area Herstadsberg
- GIS-material for the archaeological project: Deserted fields and remains of cast
- Previous Archaeological Excavations along the 'Östanken' Railway Corridor 1965-2012: The 'Kragen' city block
- GIS-material for the archaeological project: A part of Skoggetorp from old times
- GIS-material for the archaeological project: Drinking marks
- Previous Archaeological Excavations along the 'Östanken' Railway Corridor 1965-2012: House foundation and clearance cairn
- GIS-material for the archaeological project: Prehistoric trench and abandoned field on the medieval village site of Sund

Resource links

View resource at provider

Json Xml Rdf Cite Report an issue

Resource is part of

Portable Antiquities Scheme Database

Thematically similar

Bounding boxes to mask precise location

GIS-material for the archaeological project: Land use planning area Herstadsberg

Description

The information in the abstract is translated from the archaeological report. In connection with local planning concerning an extension of the golf course in Herstadsberg and Lobby, Nånköping municipality wished to establish the archaeological conditions in the area. An archaeological assessment (phase 1) has been performed by the Swedish National Heritage Board's Contract/Archaeology Service, UV Öst. The assessment has shown that the development will affect an area of regional, cultural interest, as well as the oldest locations of the manor Herstadsberg and the village Lobby; a brickoven remnant, three building remnants, a historically interesting building, five prehistoric graves and six topographically delimited areas which are likely to contain unmarked archaeological remains. An expansion of the golf course would affect Lobby to a higher degree than Herstadsberg, since the latter is already much affected by this residential area, the railway and the motorway.

Metadata

Original ID: <https://doi.org/10.5878/0100539>

Landing page: <https://doi.org/10.5878/0100539>

Language: Swedish

Resource type: Fieldwork archive

Subject: AWE

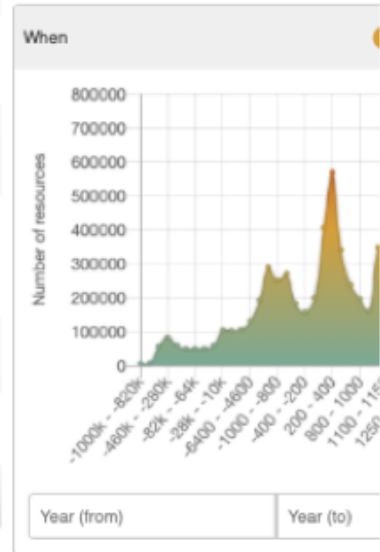
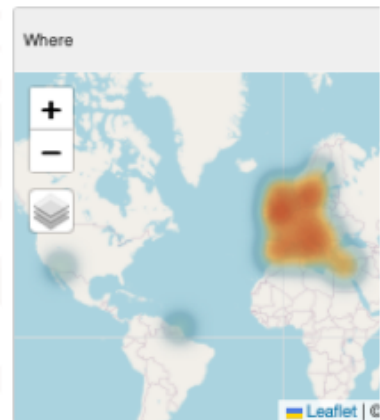
graves (en)
modern (style or period) (en)

Subject: Original:

Grave, unknown type
Modern age
Modern age
Historical period
Prehistoric time

Filters

All fields Search 3,238,701



Filters

All fields Search resources...

Clear All Filters

Where Advanced Search



When Advanced Search



Results

Time: 0.19s. Total: 2,305. Page: 1 / 211

Getty AAT Subjects: steamships

« 1 2 3 4 5 »

MALLARD: FIRTH OF FORTH

STEAMSHIP, MARITIME Council: FIFE..

Resource type: Maritime
 Place: Scotland, maritime - fife, fife
 Publisher: Historic Environment Scotland
 Original subject: Steamship
 Getty AAT Subjects: Steamships

BALLOCHBUIE (POSSIBLY): NORTH SEA

CRAFT, STEAMSHIP, MARITIME Council: MARITIME..

Resource type: Maritime
 Place: Scotland, maritime - offshore, maritime
 Publisher: Historic Environment Scotland
 Original subject: Craft, Steamship
 Getty AAT Subjects: Steamships, Boats

BALLOCHBUIE [POSSIBLY]: NORTH SEA

MARITIME Possible instance of: STEAMSHIP Council: FIFE..

Resource type: Maritime
 Place: Scotland, maritime - fife, fife
 Publisher: Historic Environment Scotland
 Original subject: Steamship
 Getty AAT Subjects: Steamships

CHINGFORD: CRAIL, FIRTH OF FORTH

STEAMSHIP, MARITIME Council: FIFE..





UK maritime heritage

AriadnePlus - ResearchSpace Platform

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Find: Inscriptions WAS WRITTEN BY Nicodes


Inscription
was written by

Actor
Nicodes
remove

Show Filter

found 3 matches

[Grid](#)
[Table](#)
[Carousel](#)
[Chart](#)

Only entities with image representation are shown in the Grid!

AriadnePlus - ResearchSpace Platform

Login

Home / SemanticSearch

Find: Coins CONSISTS OF Bronze or Copper alloy or AE


Coin
consists of

Material
Bronze
Copper alloy
AE
remove

Show Filter

found 196 matches

[Grid](#)
[Table](#)
[Carousel](#)
[Chart](#)

subject	denomination	publisher	material	obverse_inscription	reverse_inscription
Coin 1999-05-04	AE	The Cyprus Institute	AE	HE̅N̅R̅I̅C̅V̅S	REX CIPRI
Coin 1989-03-41	Sizin	The Cyprus Institute	AE	IACOBUS DEI GRAIAX	ERXX INERUSALEM (20th king of Jerusalem)
Coin 1996-01-01	Sizin	The Cyprus Institute	AE	IACUS DEI REX	IERUSALEM C
Coin 1985-03-08	Bezant	The Cyprus Institute	AE	PRO REGNI CYPRI PRESSIDIO 1570	VENETORV FIDES INVIOABILIS BISANTE I
Coin 1999-03-91	Bezant	The Cyprus Institute	AE	[PI]RO REGNI CYPRI PRESSIDIO 1570	VI[ET]NETORV FIDES INVIO[AB]JLIS BISANTE I
Coin 514169		British Museum	Copper alloy		
Coin 514146	Radiate (antoninianus)	British Museum	Copper alloy		
Coin 514622	Radiate (antoninianus)	British Museum	Copper alloy		



Inscription 7172ef5...



Inscription 9c378b2...



- **Consistent use of an ontology is essential**
 - CIDOC-CRM was broad enough to cover all domains involved – but it is important to map to it consistently
- **Vocabulary control is also essential**
 - Getty AAT – very powerful – but needs oversight to ensure consistency in partner mappings
- **Can't make everything interoperable**
 - Focus on key themes
 - What, When, Where; maybe Who?
- **Requirement for archaeologists to work closely with IT specialists**
 - Always think about how the data will be used
- **Granularity and scale are important**
 - Collection level vs item level
 - Be driven by research questions

THANK YOU!

ARIADNEplus is a project funded by the European Commission under the H2020 Programme, contract no. H2020-INFRAIA-2018-1-823914.

- <https://portal.ariadne-infrastructure.eu>

The views and opinions expressed in this presentation are the sole responsibility of the author and do not necessarily reflect the views of the European Commission.

