Digital preservation and access in a European perspective: Introducing ARIADNE

Préservation numérique et accès aux données dans une perspective européenne: Introduction à ARIADNE

Julian Richards

Director, Archaeology Data Service, University of York, UK

Federico Nurra

Service Activités Internationales, DST, Inrap, FR

Outline

- The Open Data Agenda
- Review of National E-Infrastructures
- European Interoperability for Online Heritage Databases
  - ARIADNE
  - E-RIHS (European Research Infrastructure for Heritage Science)
- Inrap participation to ARIADNE

Open Data in Europe

13 June 2013: European parliament ratifies new rules on Open Data - includes cultural heritage data

Le Parlement européen ratifie les nouvelles règles sur les données ouvertes, incluant les données liés au patrimoine culturel

Legal notice | Privacy | RSS English (en)

European Commission

Blog of Neelie KROES

Vice-President of the European Commission

European Commission > The Commissioners (2010-2014) > Neelie Kroes > Blog

« Previous post | Blog | Next post »

EU unlocks a great new source of online innovation

June 13th, 2013 | Number of views :9685

Today the European Parliament voted to formally agree new rules on open data – effectively making a reality of the proposal which I first put forward just over 18 months ago, and making it **easier to open up huge amounts of public sector data**. This is about the data that public authorities can lawfully put out there – a huge wealth of **information about your public services, how administrations are spending your tax euros, geographical or cultural information**, and the like.

There's a huge benefit to opening up. Once information is out there, there is so much you can do with it. Today many of you are familiar with apps that tell you where you are and where you need to go – based on public data from Global Positioning System (GPS) satellites. But it goes beyond that: the boost from easier access is of the order tens of billions of euros. In short, this is an amazing raw material for innovation; we're basically sitting on a goldmine.

But to make a real difference you need a few things. You need prices for the data to be reasonable if not free – given that the marginal cost of your using the data is pretty low. You need to be able to not just use the data: but re-use it, without dealing with complex conditions. And you need a wide range of data from across the EU, with consistent rules to make it easier to handle (like being machine-readable,

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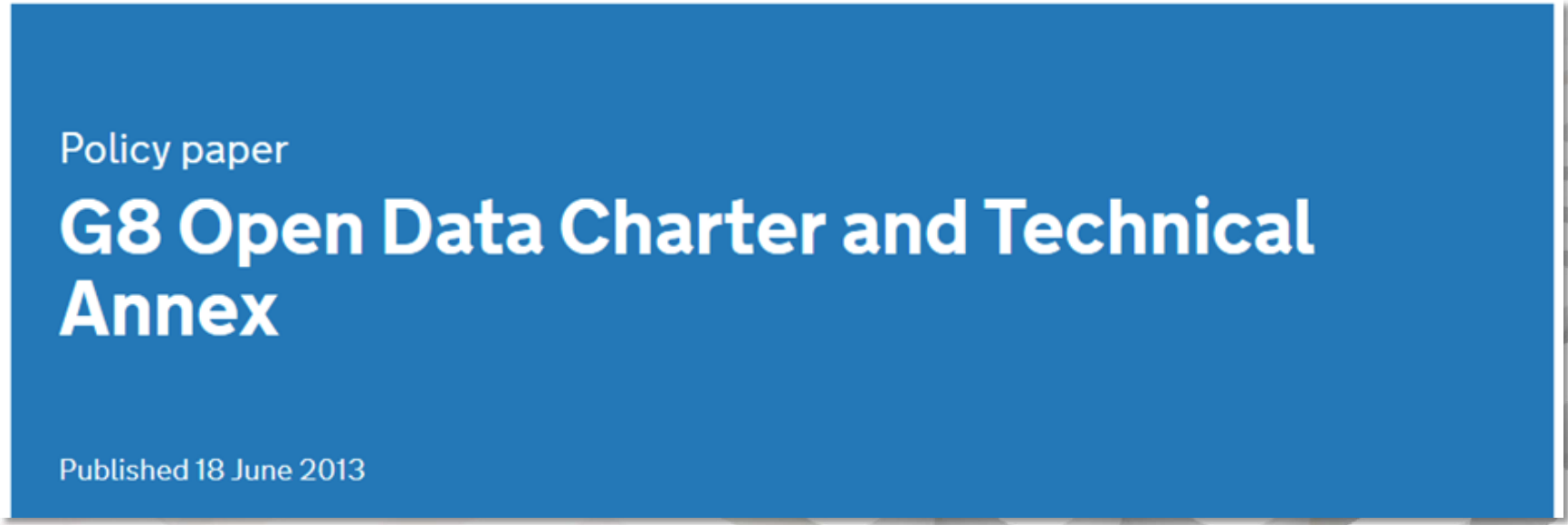
2013: G8 Open Data Charter

18 June 2013:

"a new era in which people can use open data to generate insights, ideas, and services to create a better world for all."

« Une nouvelle ère dans laquelle les gens peuvent utiliser des données ouvertes pour générer des idées et des services pour créer un monde meilleur pour tous »

The Five Principles



1. Open Data by Default
2. Increase Quality and Quantity for re-use
3. Usable by All
4. Releasing Data for improved Governance
5. Releasing Data for Innovation

Digital Data Challenges

Digital Data need active management and preservation

Les données numériques ont besoin de gestion active et de conservation

- Digital data are as fragile as the archaeological record we excavate

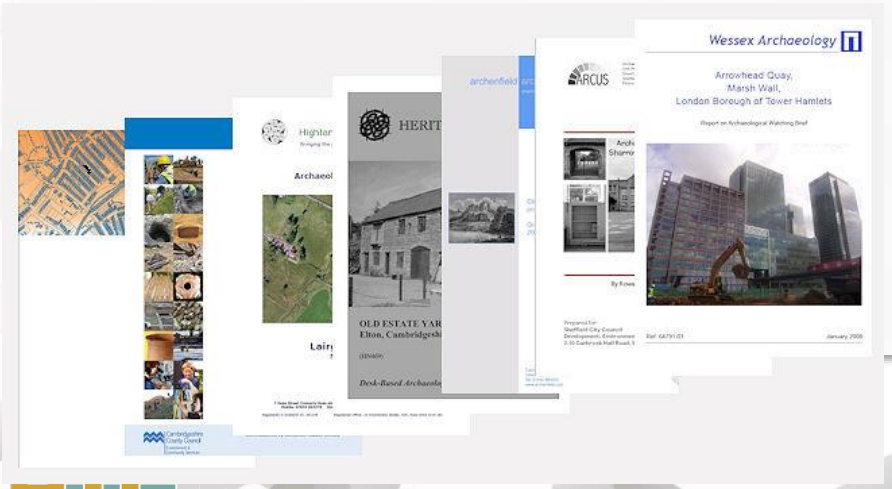
Les données numériques sont aussi fragiles que les données archéologiques que nous fouillons

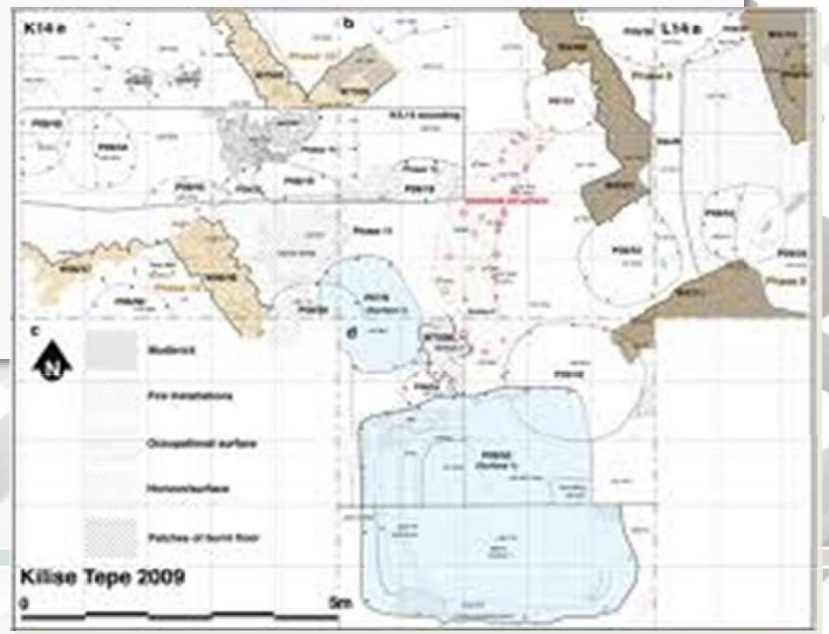
- They are still archived as objects rather than computerised information

Elle sont souvent encore archivées comme des objets plutôt que comme des données informatisées

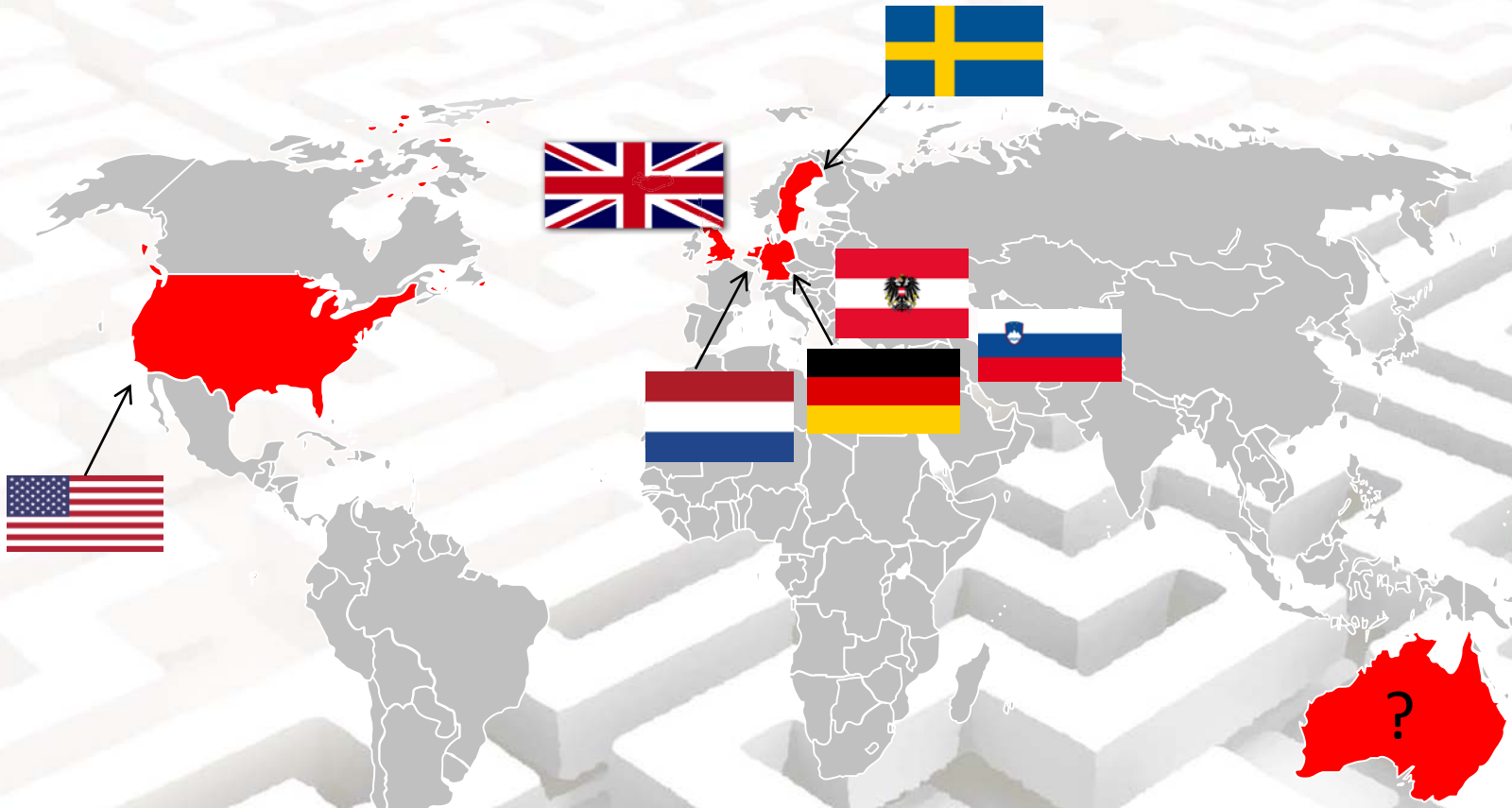
Open Data in Archaeology: current situation

- Published data are limited - *Les données publiées sont rares*
- Majority of data are recorded in grey literature - *La majorité des données sont enregistrées dans la littérature grise*
- Data are not easily searchable - *Les données ne sont pas facilement consultable*
- Assess to data is difficult - *L'accès aux données est difficile*
- Lack of national repositories - *Manque de référentiels nationaux*





National Preservation Infrastructures

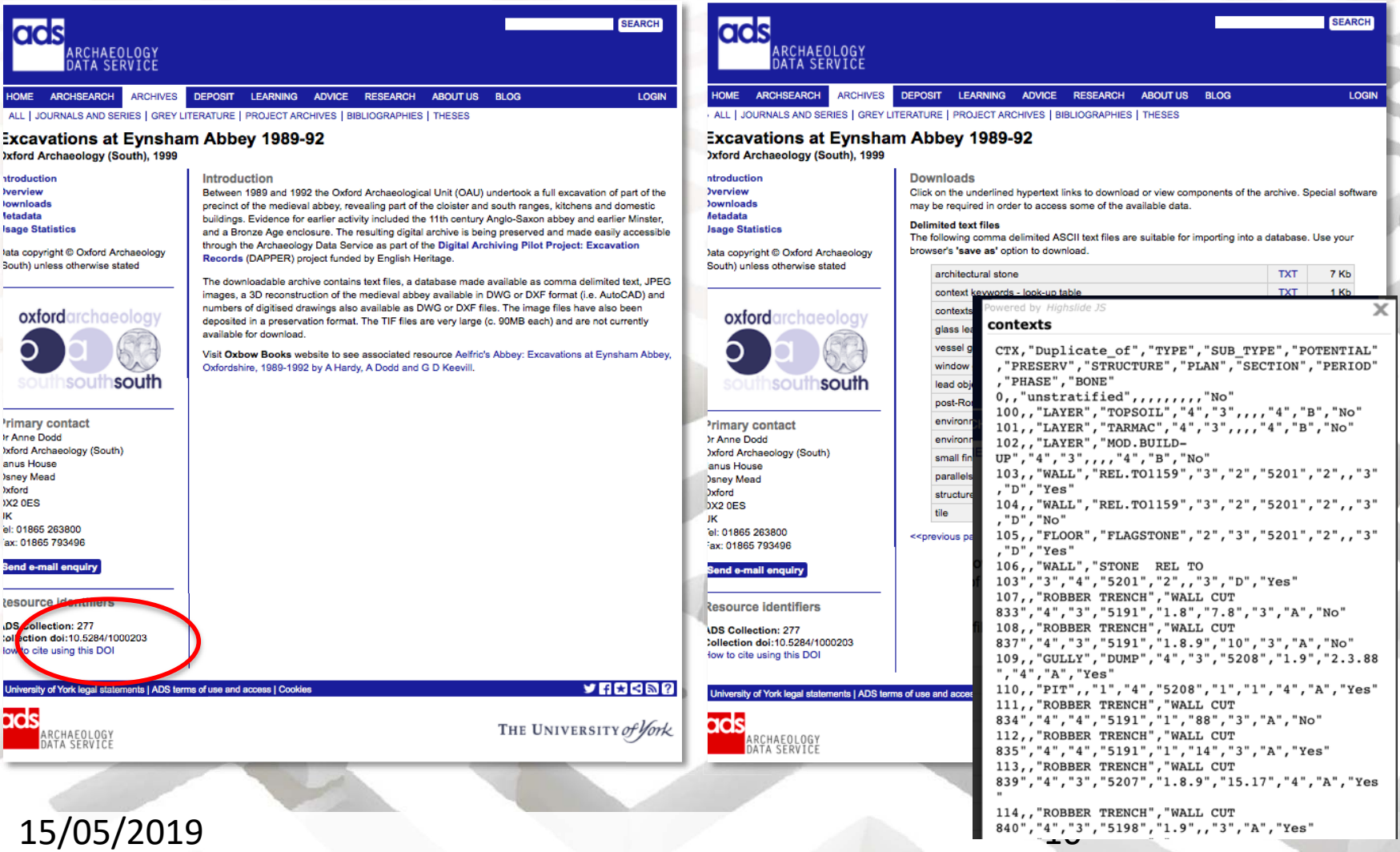


UK: Archaeology Data Service

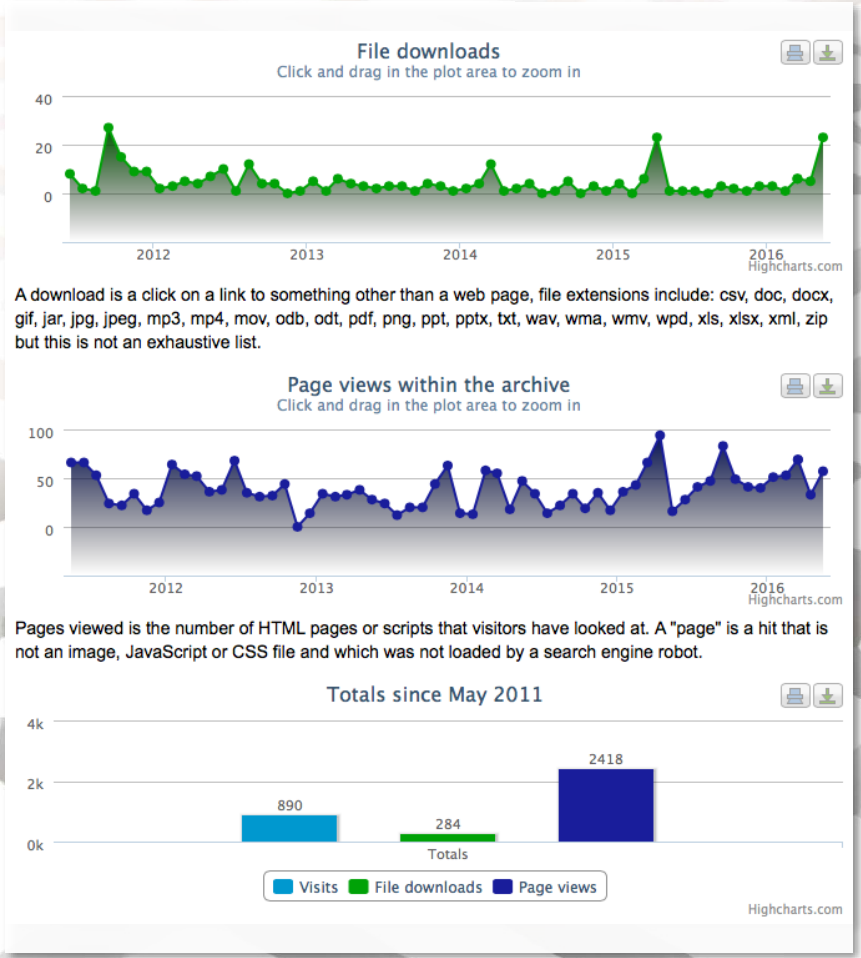
- Set up in 1996
- Based within the University of York
- 14 staff
- Business model based upon charging policy: one-off charge at time of deposit
- Trusted Digital Repository: Data Seal of Approval
- Received Digital Preservation Coalition's Decennial Award in 2012
- 2016: 10Tb; 2,054,846 **files;** 18,505 recorded **processes**

Open Access to primary data

An example: Eynsham Abbey archive 1999



Access statistics



A download is a click on a link to something other than a web page, file extensions include: csv, doc, docx, gif, jar, jpg, jpeg, mp3, mp4, mov, odb, odt, pdf, png, ppt, pptx, txt, wav, wma, wmv, wpd, xls, xlsx, xml, zip but this is not an exhaustive list.

Pages viewed is the number of HTML pages or scripts that visitors have looked at. A "page" is a hit that is not an image, JavaScript or CSS file and which was not loaded by a search engine robot.

Ipswich: 2015 – 36 excavations

ARCHAEOLOGY DATA SERVICE

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Ipswich 1974-1990 Excavation Archive

Suffolk County Council Archaeological Service, 2015

Introduction
Overview
Site List
Interactive Map
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Downloads
Metadata
Usage Statistics

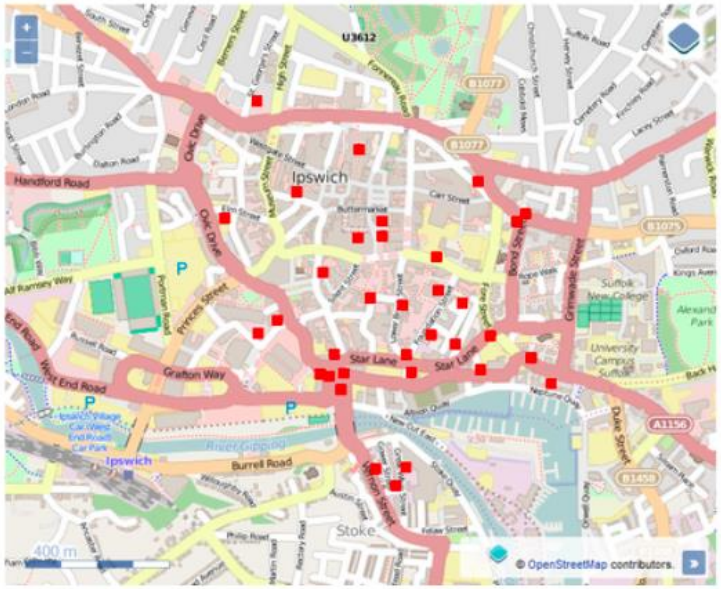
Data copyright © Suffolk County Council Archaeological Service unless otherwise stated

ENGLISH HERITAGE

Primary contact
Suffolk County Council Archaeological Service
9-10 Churchyard
Bury St Edmunds

Introduction

The modern town centre of Ipswich, centred at Ordnance Survey grid point TM 1590 4060, lies on the site of its Middle Saxon predecessor (Gippeswic).



Despite the recognition of the town's early foundation in the 1950s, little opportunity was taken to undertake archaeological excavation within the historic core until the 1970s. The recognition at this time that Middle Saxon Ipswich was one of only a handful of trading settlements displaying urban characteristics (emporia / wics) elevated the town's archaeological status to one of international importance.

Between 1974 and 1990 the 36 excavations on 34 sites archived here were carried out by the Suffolk Archaeological Unit (subsequently Suffolk County Council Archaeological Service) under the direction of Keith Wade. Much analysis had been done but further work towards publication was delayed and deferred

Ipswich: GIS query of all excavation site plans

otherwise stated

ENGLISH HERITAGE

Primary contact

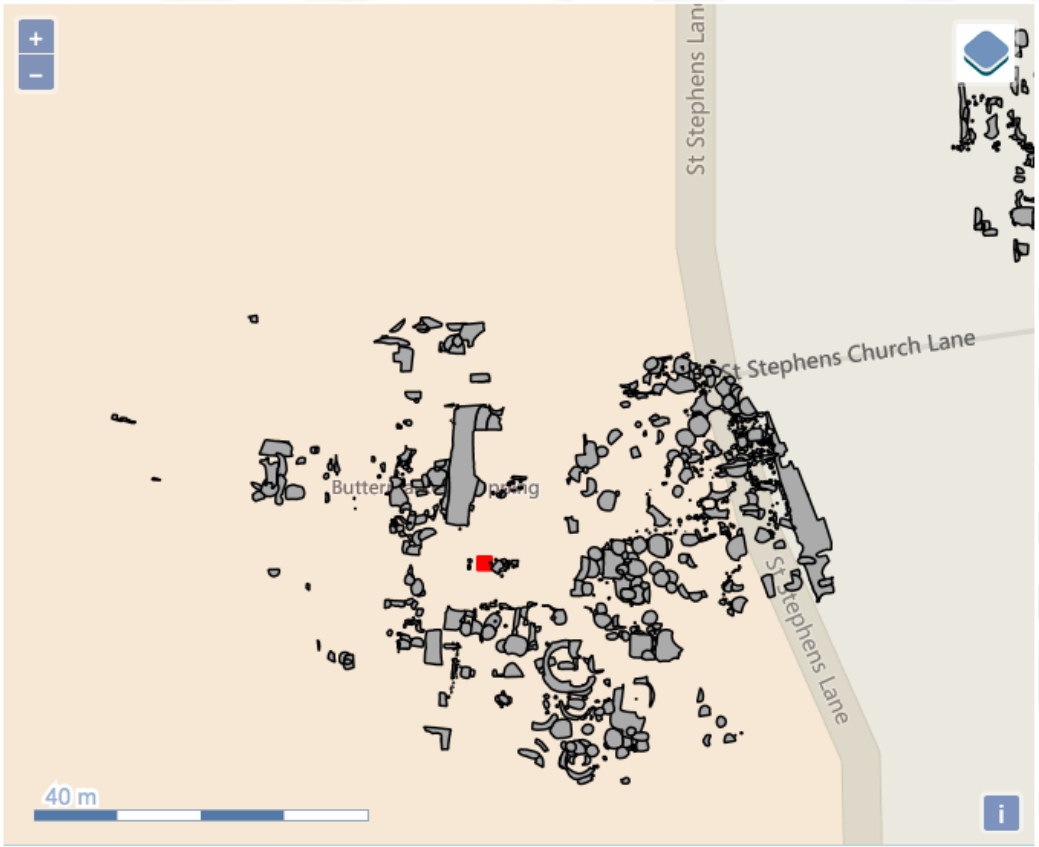
Suffolk County Council Archaeological Service
9-10 Churchyard
Bury St Edmunds
Ipswich
IP33 1RX

Send e-mail enquiry

Resource identifiers

ADS Collection: 1644
Collection doi:10.5284/1034376
How to cite using this DOI

Suffolk County Council



The export to PNG feature requires a browser that supports the link download attribute.

Export PNG

- All Features
- Select Features:
  - Beam slot
  - Building
  - Burial

- Prehistoric
- Romano-British
- Saxon (c.600-1000)
- Early Middle Saxon (c.600-700)
- Middle Saxon (c.700-850)
- Early Late Saxon (c.850-900)

Library of Unpublished Fieldwork Reports

Introduction
Browse by contractor
Contractors A-Z
Search reports

GREY LITERATURE LIBRARY

Primary contact

Archaeology Data Service
Dept. of Archaeology
The King's Manor
University of York
Y01 7EP
UK
Tel: 01904 433954
Fax: 01904 433939

Send e-mail enquiry

Resource identifiers

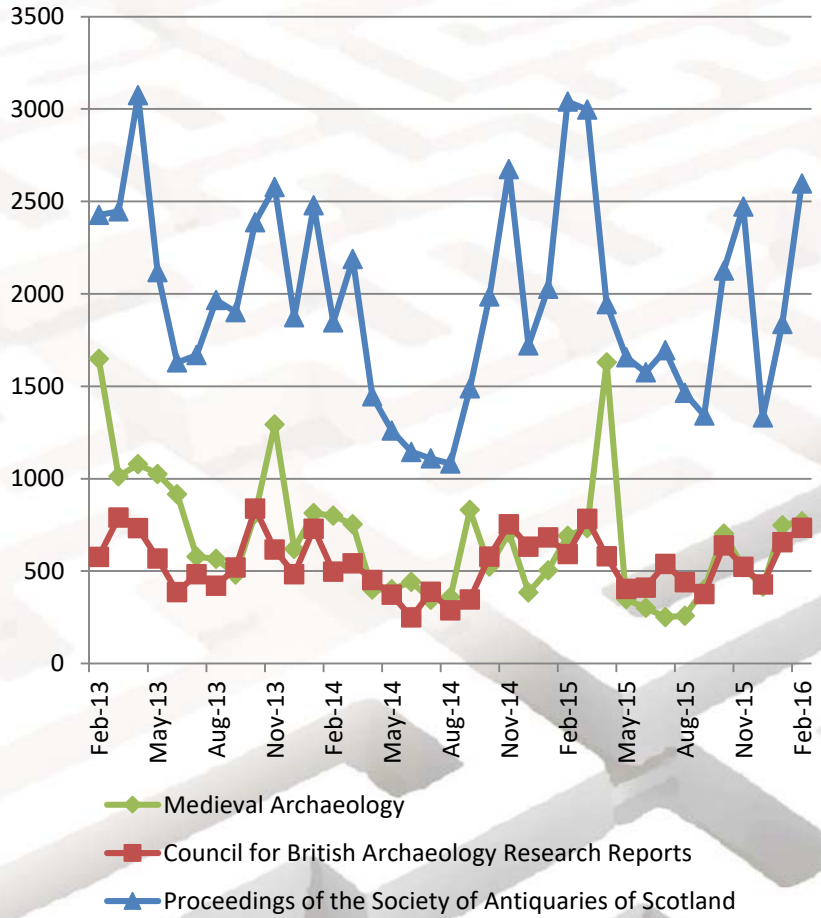
ADS Collection: 1093

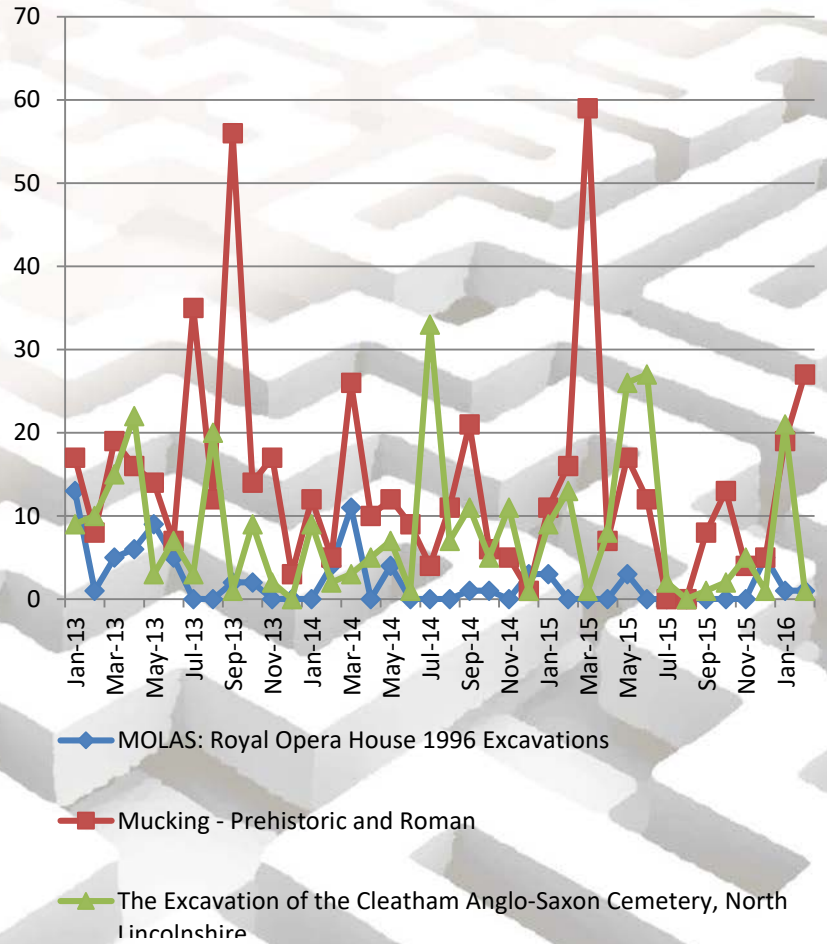
Introduction

The aim of this resource is to make available unpublished fieldwork reports in an easily retrievable fashion. There are **currently 36804 reports available** and this number is increasing steadily through the OASIS project in England and Scotland.

Through this resource it is possible to list the reports by contractor, using the browse by contractor option and also to do a more advanced search filtering these reports by period, monument/artefact type and location using the search option. These unpublished reports cover archaeological interventions such as: watching briefs, excavation reports and building surveys. Desk-based assessments and specialist analysis are also included.

File downloads: journal papers vs data sets





Economic Impact of the ADS

Beagrie/Houghton 2014:

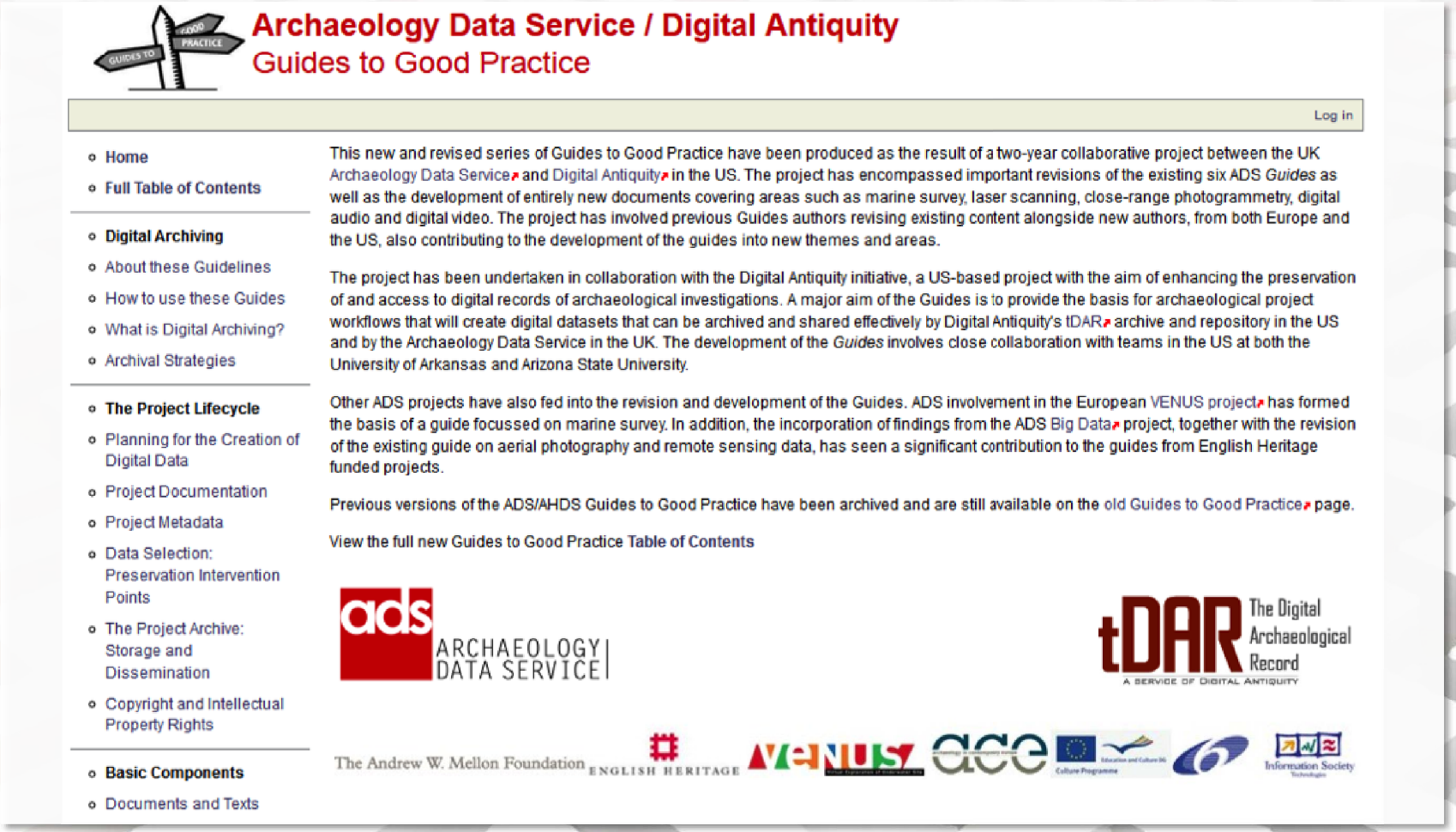
- Investment value £1.2m pa
  - £698,000 pa funding from sponsors
  - £465,000 pa indirectly contributed by depositors
- Direct use value £1.4m pa
- But efficiency impacts £13m-£58m per annum
- Research efficiency gains = 7 hours per person per week
- **£1 investment provides up to £8.30 return**

Charles Beagrie

JISC

CENTRE FOR STRATEGIC ECONOMIC STUDIES

Shared Data Standards



Archaeology Data Service / Digital Antiquity
Guides to Good Practice

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- **Digital Archiving**
- About these Guidelines
- How to use these Guides
- What is Digital Archiving?
- Archival Strategies

- **The Project Lifecycle**
- Planning for the Creation of Digital Data
- Project Documentation
- Project Metadata
- Data Selection: Preservation Intervention Points
- The Project Archive: Storage and Dissemination
- Copyright and Intellectual Property Rights

- **Basic Components**
- Documents and Texts

This new and revised series of Guides to Good Practice have been produced as the result of a two-year collaborative project between the UK Archaeology Data Service and Digital Antiquity in the US. The project has encompassed important revisions of the existing six ADS *Guides* as well as the development of entirely new documents covering areas such as marine survey, laser scanning, close-range photogrammetry, digital audio and digital video. The project has involved previous Guides authors revising existing content alongside new authors, from both Europe and the US, also contributing to the development of the guides into new themes and areas.

The project has been undertaken in collaboration with the Digital Antiquity initiative, a US-based project with the aim of enhancing the preservation of and access to digital records of archaeological investigations. A major aim of the Guides is to provide the basis for archaeological project workflows that will create digital datasets that can be archived and shared effectively by Digital Antiquity's tDAR archive and repository in the US and by the Archaeology Data Service in the UK. The development of the *Guides* involves close collaboration with teams in the US at both the University of Arkansas and Arizona State University.

Other ADS projects have also fed into the revision and development of the Guides. ADS involvement in the European VENUS project has formed the basis of a guide focussed on marine survey. In addition, the incorporation of findings from the ADS Big Data project, together with the revision of the existing guide on aerial photography and remote sensing data, has seen a significant contribution to the guides from English Heritage funded projects.

Previous versions of the ADS/AHDS Guides to Good Practice have been archived and are still available on the old Guides to Good Practice page.

View the full new Guides to Good Practice Table of Contents

ads ARCHAEOLOGY DATA SERVICE

tDAR The Digital Archaeological Record
A SERVICE OF DIGITAL ANTIQUITY

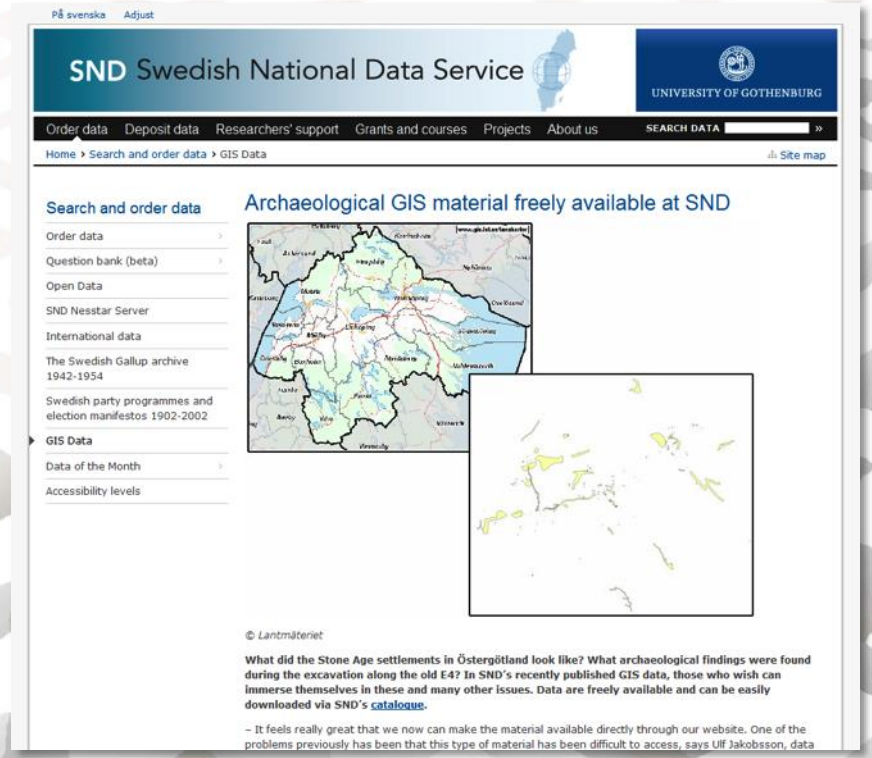
The Andrew W. Mellon Foundation ENGLISH HERITAGE VENUS ace Information Society

Netherlands: eDNA

- 2004-6 pilot study – DANS & Leiden University
- 2007 eDNA
- 2 members of staff, plus DANS infrastructure
- 2016 – 25,000 reports and 4,000 excavation archives

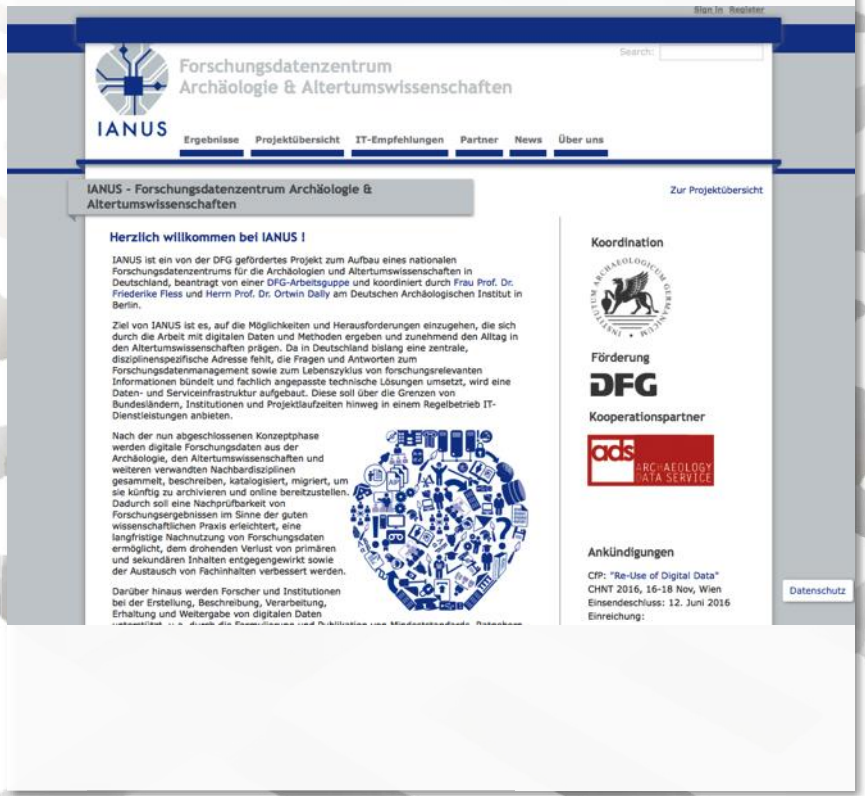
Sweden: SND & SNHB

- Swedish National Data Service, University of Gothenburg
- 2012 first archaeological archives, in collaboration with Uppsala University – GIS files, Östergötland
- Swedish Rock Art archives
- 2015 Swedish National Heritage Board – Digital Archive Project



Germany: IANUS

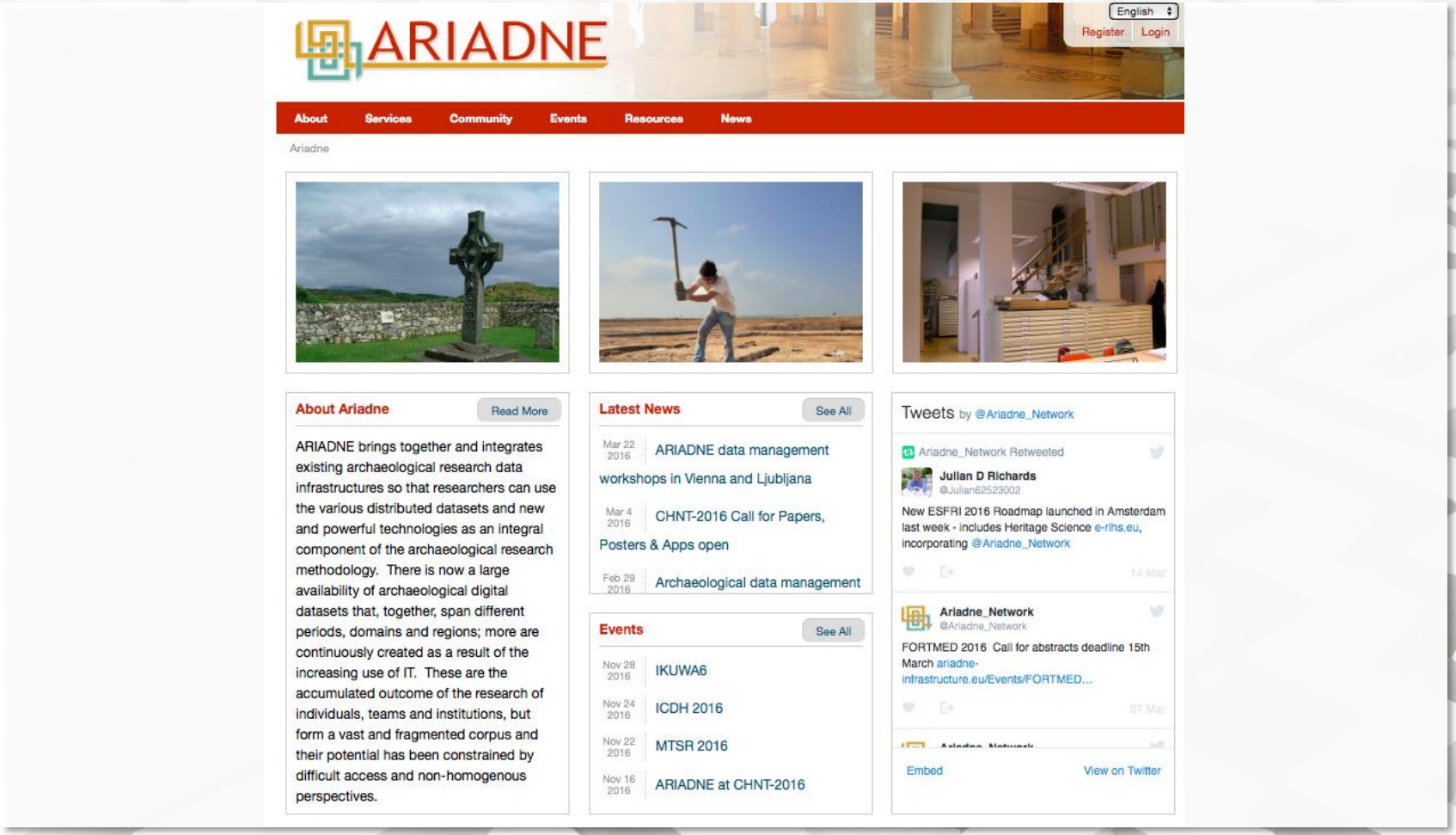
- 2012 – DAI scoping project
- Initial staff of two
- 2015 – Established with Director and 3 digital archivists



Interoperability & Data Integration

Hansen, H.J., 1992 'European archaeological databases: problems and prospects', in J. Andresen *et al*. (eds) *Computing the Past. Computer Applications and Quantitative Methods in Archaeology*. Aarhus. 229-37.

ARIADNE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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, 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.
Latest News
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Mar 22 2016 ARIADNE data management workshops in Vienna and Ljubljana
Mar 4 2016 CHNT-2016 Call for Papers, Posters & Apps open
Feb 29 2016 Archaeological data management
Events
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Nov 28 2016 IKUWA6
Nov 24 2016 ICDH 2016
Nov 22 2016 MTSR 2016
Nov 16 2016 ARIADNE at CHNT-2016
Tweets by @Ariadne_Network
Ariadne_Network Retweeted
Julian D Richards
@Julian62523002
New ESFRI 2016 Roadmap launched in Amsterdam last week - includes Heritage Science e-rihs.eu, incorporating @Ariadne_Network
Ariadne_Network
@Ariadne_Network
FORTMED 2016 Call for abstracts deadline 15th March ariadne-infrastructure.eu/Events/FORTMED...
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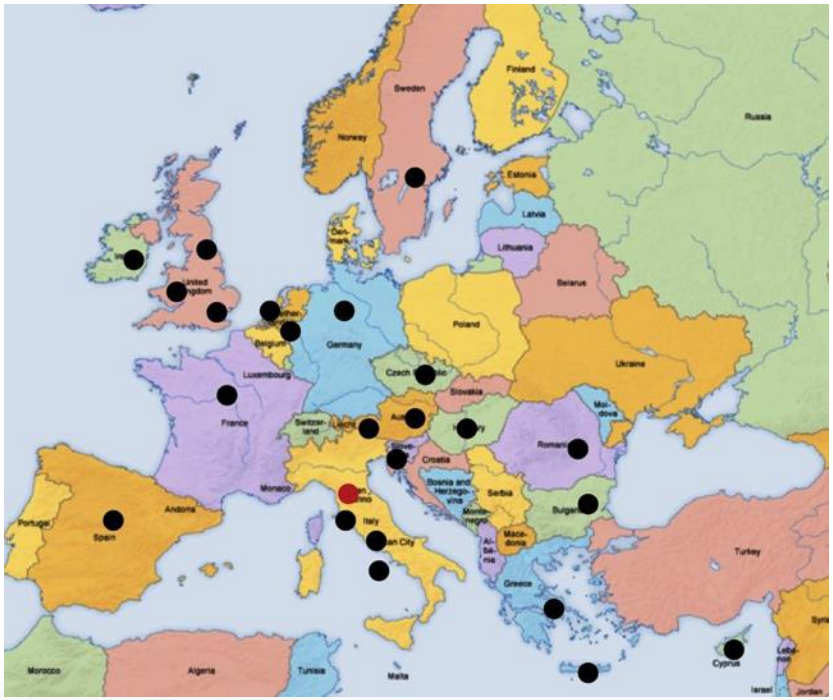
What is ARIADNE?

A project to integrate existing archaeological data infrastructures across Europe, so researchers can use the various distributed datasets and new technologies to explore new research methodologies

Un projet visant à associer et intégrer les infrastructures de données archéologiques à travers l'Europe, afin que les chercheurs puissent utiliser ces divers ensembles de données ainsi que des nouvelles technologies pour explorer de nouvelles méthodes de recherche

ARIADNE Community

- 24 partners in 18 European countries
- Coordinators
  - Prof. Franco Niccolucci, University of Florence
  - Prof. Julian Richards, University of York
- Website: www.ariadne-infrastructure.eu
- Funding: 6.5m Euros
- 15 associate partners
- Open to others
- Community building
  - Transnational access
  - Training events
  - Special interest groups



ARIADNE activities

- User needs survey
  - 700 respondents
- Transnational access and training schools
  - 90 trainees
- Data standards and good practice
- Linked data experiments
- ARIADNE Services
- ARIADNE portal:

  http://portal.ariadne-infrastructure.eu

Catalog Services About

ARIADNE

All fields | Search for resources in the Ariadne catalog ...

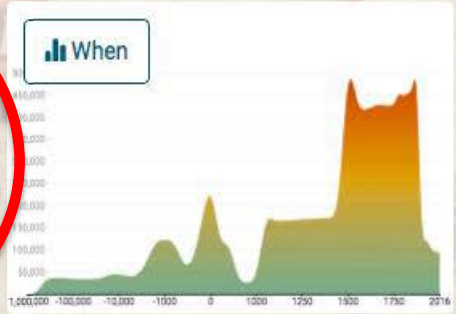
Welcome

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.

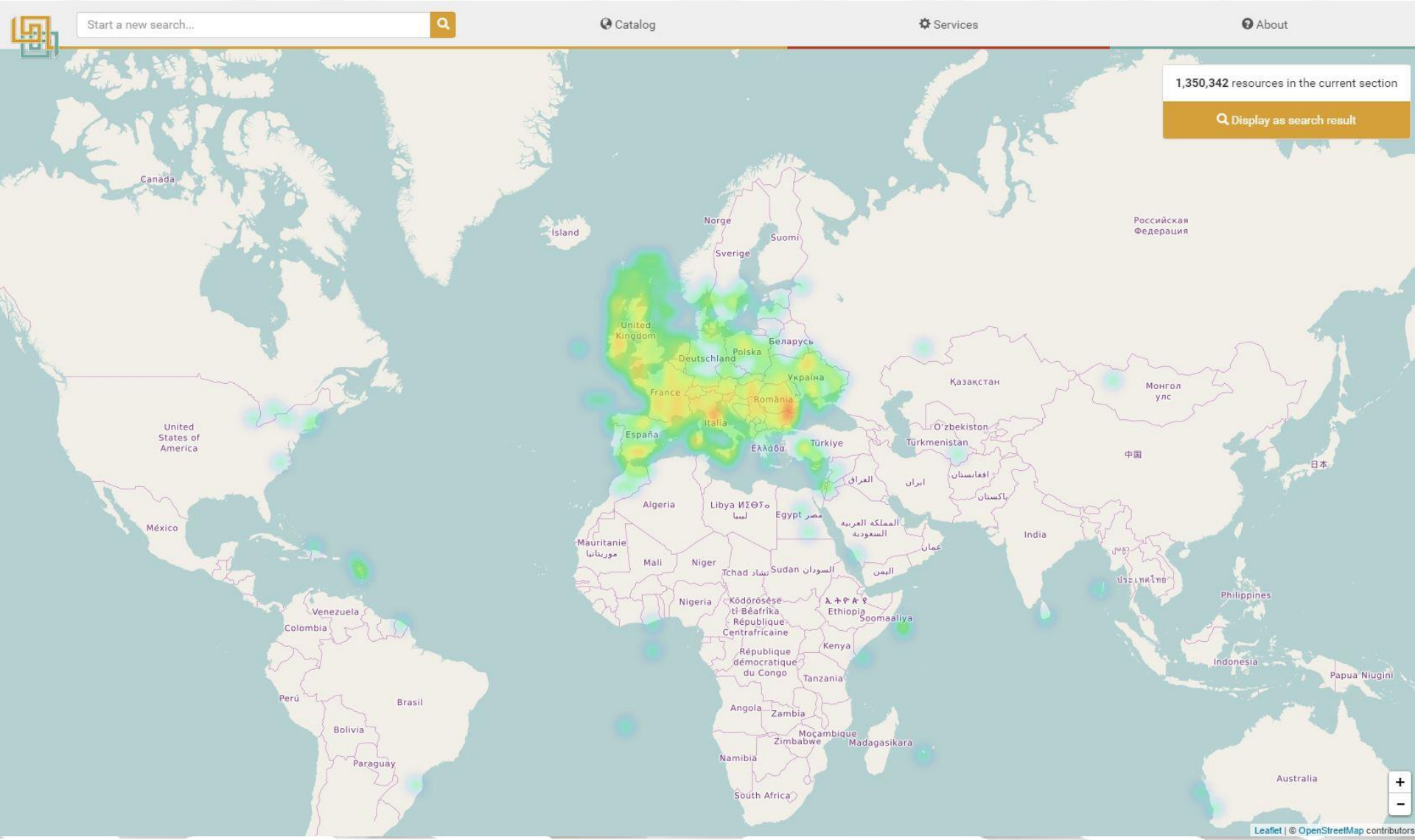
Browse the Catalog

Where

When



What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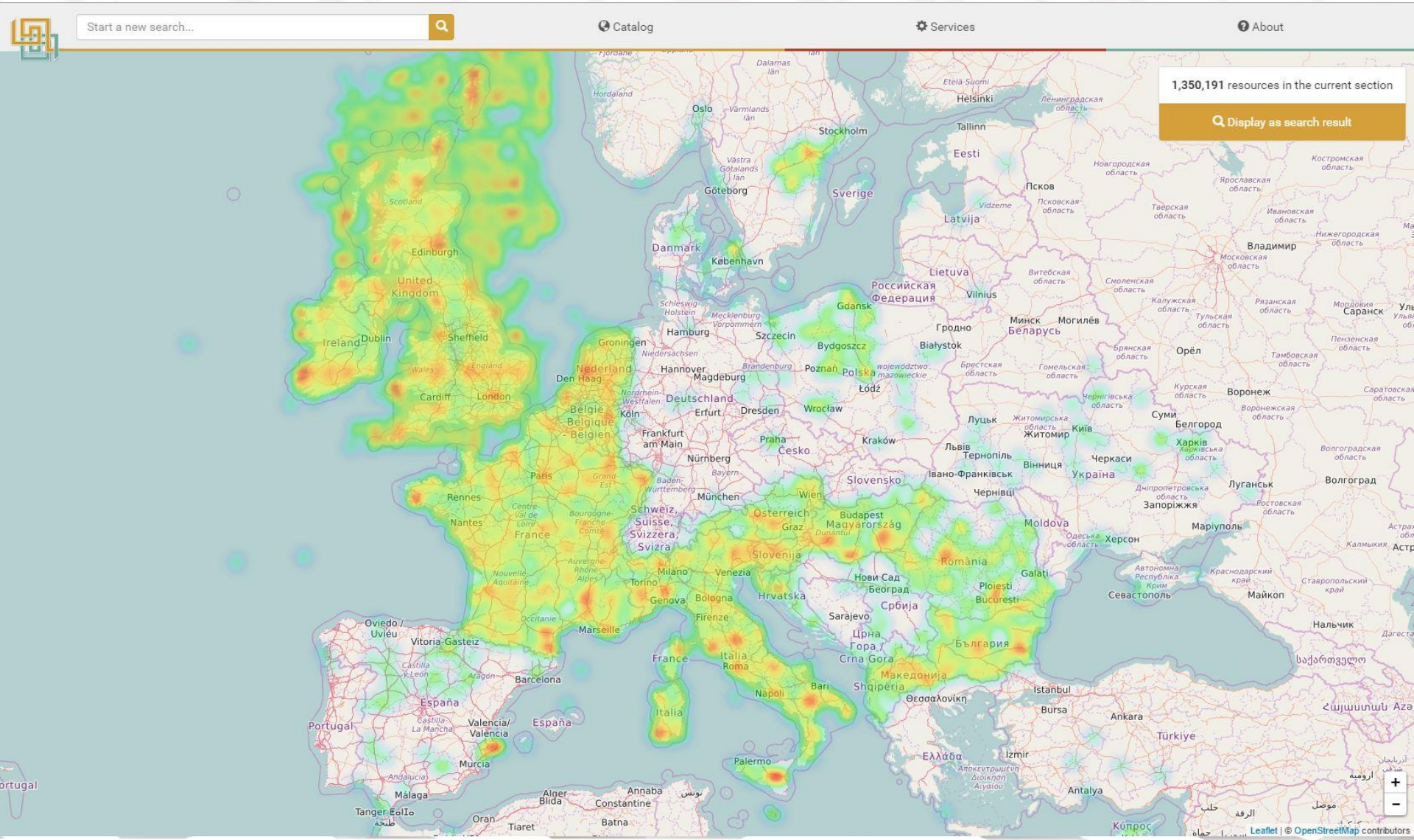
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Current search

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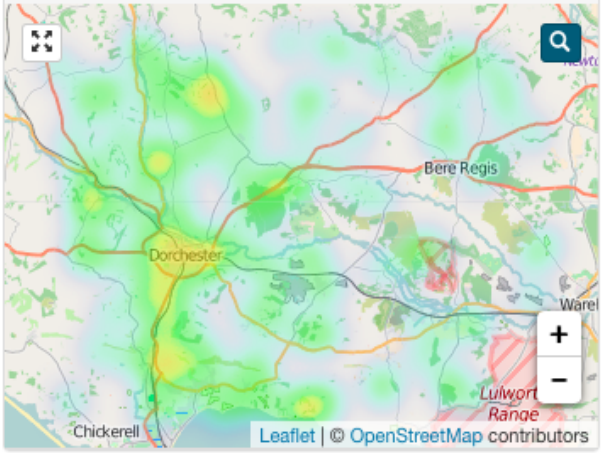
Filters

Where



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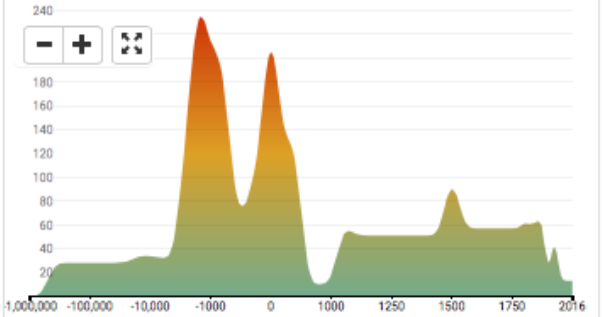

Total results: 529

« 1 2 3 4 5 »

Order By Score

WINFRITH

Type: Sites and monuments databases or inventories Publisher: Archaeology Data Service

CHURCH OF ST NICHOLAS

Type: Sites and monuments databases or inventories Publisher: Archaeology Data Service

Two evaluation trenches were excavated in advance of proposed works, recording parts of five burials of probable 15th-16th century date.

MANOR DRIVE, WEST STAFFORD

Type: Sites and monuments databases or inventories Publisher: Archaeology Data Service

Monitoring of the erection of two cottages; negative results

LAND SOUTH WEST OF POUNDBURY FARM

Type: Sites and monuments databases or inventories Publisher: Archaeology Data Service

Royal Observer Corps Monitoring Post

Type: Sites and monuments databases or inventories Publisher: Archaeology Data Service

Condition: Destroyed

Royal Observer Corps Monitoring Post

Type: Sites and monuments databases or inventories Publisher: Archaeology Data Service

Condition: Destroyed

Current search

*

Filters

Resource type: Fieldwork archives

Where

When

1,000,000 -100,000 -10,000 -1000 0 1000 1250 1500 1750 2016

Total results: 1

Order By Score

Number 1 Poultry (ONE 94)

Type: Fieldwork archives Publisher: Archaeology Data Service

The site of 1 Poultry is located near the Bank of England, in the heart of the City of London. During the 1990s, one of the largest excavations in the City recovered a remarkable archaeological sequence from the 1st to the 20th century AD. This was augmented by findings from nearby sites a...

Number 1 Poultry (ONE 94)

Access resource on the web

The site of 1 Poultry is located near the Bank of England, in the heart of the City of London. During the 1990s, one of the largest excavations in the City recovered a remarkable archaeological sequence from the 1st to the 20th century AD. This was augmented by findings from nearby sites at Bucklersbury, Lothbury, Lombard Street, 72-75 Cheapside, 76-80 Cheapside, 36-37 King Street and Mansion House. 1 Poultry lies immediately west of the point where the main east-west road through Roman London bridged the Walbrook stream and uncovered an unparalleled sequence of buildings, roads, and open spaces. A timber drain of AD 47 beneath the main road is the earliest, securely dated structure yet known from Londinium, and a pottery shop, destroyed in the Boudican revolt, gives a snapshot of life in AD 60/61. A 2nd-century AD writing tablet preserves the only evidence for the sale of a slave found in Britain to date, while the 3rd- and 4th-century AD buildings on the site provide a rare demonstration of the continuities and changes that occurred in Roman urban life.

Read more

Early Medieval Medieval Post Medieval Roman

World, Europe, United Kingdom, England, Greater London, London, City of London [7011798]

Metadata

ARIADNE ID	19138479
Original ID	1297
Language	English
Resource type	Fieldwork archives
Dating	Early Medieval Medieval Post Medieval Roman
Place	World, Europe, United Kingdom, England, Greater London, London, City of London [7011798] *[-0.0907642, 51.51328]*
Type	Collection
Publisher	Archaeology Data Service *[Organization]*

Geographically similar

Current resource Similar resource

Thematically similar

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- The evolution of Romes maritime facade: archaeology and geomorphology at Castelporziano
- Framework Archaeology Heathrow Terminal 5 Excavation Archive
- Mill Close, Grantham, Lincolnshire. Archaeological Watching Brief
- Mersham ARC MSH 98
- Archaeological and cultural heritage investigations on the site of the London 2012 Olympic and Paralympic Games

Number 1 Poultry (ONE 94)

Museum of London Archaeology, 2013

Introduction
Overview
Downloads
Metadata
Usage Statistics

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MOLA MUSEUM OF LONDON ARCHAEOLOGY

ENGLISH HERITAGE

Primary contact

Julian Hill
Post-Excavation Project Manager
Museum of London Archaeology
Mortimer Wheeler House
46 Eagle Wharf Road
London
N1 7ED
UK

Introduction

The site of 1 Poultry is located near the Bank of England, in the heart of the City of London. During the 1990s, one of the largest excavations in the City recovered a remarkable archaeological sequence from the 1st to the 20th century AD. This was augmented by findings from nearby sites at Bucklersbury, Lothbury, Lombard Street, 72-75 Cheapside, 76-80 Cheapside, 36-37 King Street and Mansion House.

1 Poultry lies immediately west of the point where the main east-west road through Roman London bridged the Walbrook stream and uncovered an unparalleled sequence of buildings, roads, and open spaces. A timber drain of AD 47 beneath the main road is the earliest, securely dated structure yet known from Londinium, and a pottery shop, destroyed in the Boudican revolt, gives a snapshot of life in AD 60/61. A 2nd-century AD writing tablet preserves the only evidence for the sale of a slave found in Britain to date, while the 3rd- and 4th-century AD buildings on the site provide a rare demonstration of the continuities and changes that occurred in Roman urban life.

Poultry occupied a prominent position at the eastern end of Cheapside, the city's principal medieval market street; integrating documentary evidence with the archaeological record has provided an outstandingly detailed account of this area. Reoccupation of the site in the later 10th century AD began with the construction of scattered sunken-floored buildings; a more regular pattern of settlement, characterised by narrow-fronted timber buildings along the roadsides, had developed by the early 11th century. Occupation became progressively denser up to the 13th century, when large stone-built houses began to be constructed in previously open areas behind the street frontages. Metalworking evidence from the excavated buildings indicates early economic activity, corresponding with later documentary evidence for smiths, ironmongers and other metalworkers in the area. The Great Conduit, the City's first piped water supply, was established in

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Downloads

The downloads are split into separate sections for each site (see overview for details). Please note that each site has separate file metadata, however conventions and codes for CAD and spreadsheet files are common to all sites and are presented as overarching metadata below. The concordance document gives further details of the relationships between ONE94 and the satelite sites.

Concordance document	PDF	623 Kb
MoLA CAD layer conventions	PDF	78 Kb
Spreadsheet conventions	CSV	40 Kb

ONE94 | BOL94 | BUC87 | CID90 | DOC87 | LOM88 | BRD88 | KNG85 | LHY88 | SON85 | MHO92 | PLY87

ONE 94 (1 Poultry)

File Metadata ONE94	TXT	11 Kb

Spreadsheet files

ONE94 abonedata01	CSV	1.25 Mb
ONE94 anbntab07	CSV	1.29 Mb
ONE94 anbntab08	CSV	39 Kb
ONE94 anbntab09	CSV	852 Kb
ONE94 anbntab10	CSV	874 Kb
ONE94 biblio01	CSV	6 Kb
ONE94 bmdata01	CSV	213 Kb
ONE94 botdata01	CSV	49 Kb
ONE94 botreptab02	CSV	13 Kb

Catalog Services About

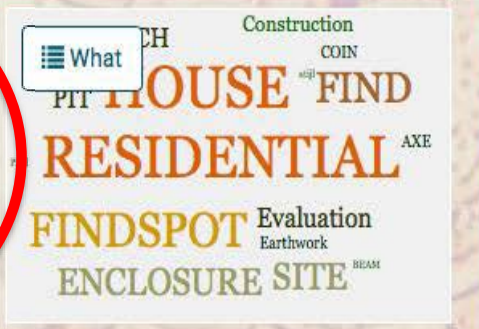
ARIADNE

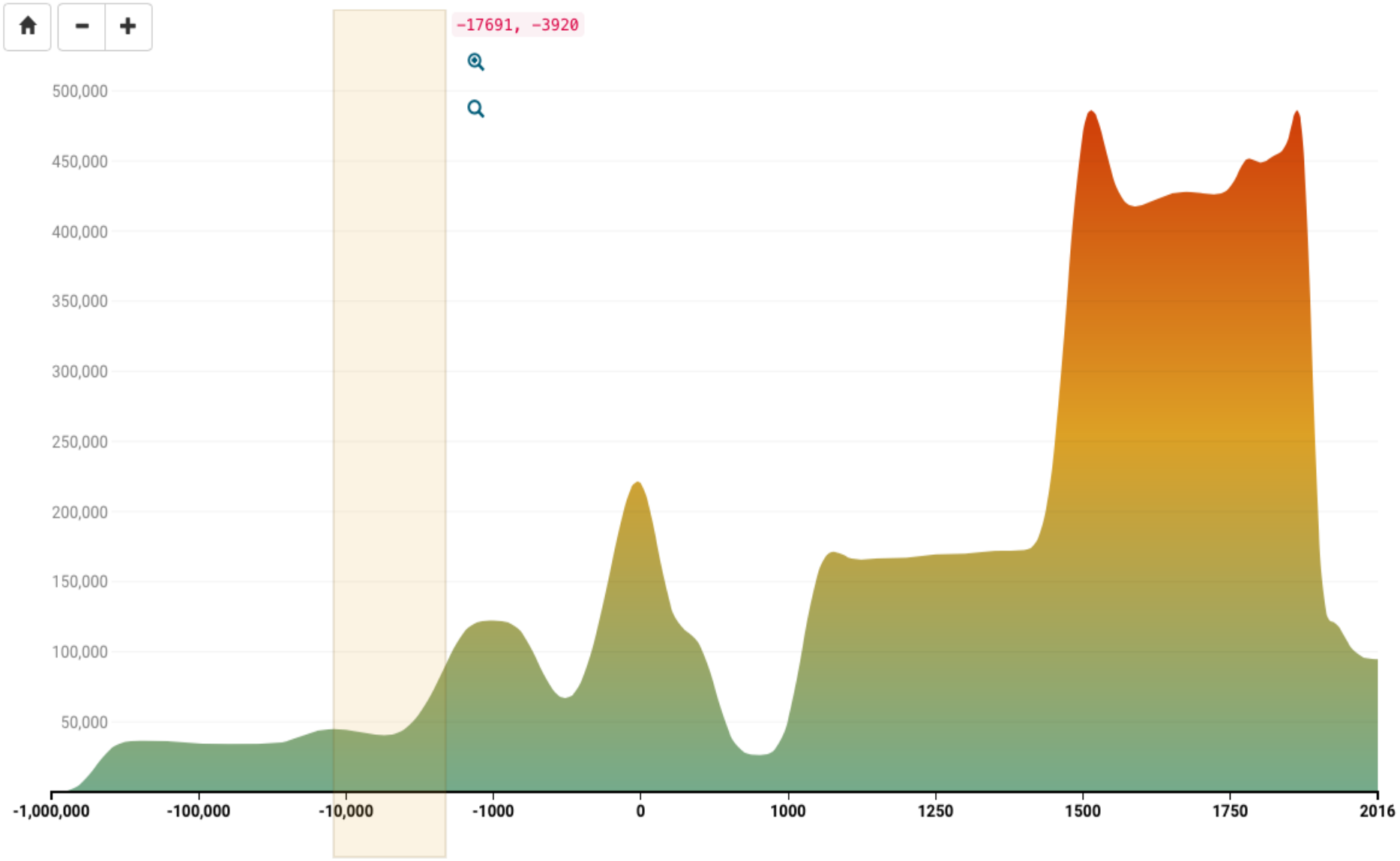
All fields | Search for resources in the Ariadne catalog ...

Welcome

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.

Browse the Catalog

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-100,000
-10,000
-1000
0
1000
1250
1500
1750
2016

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.

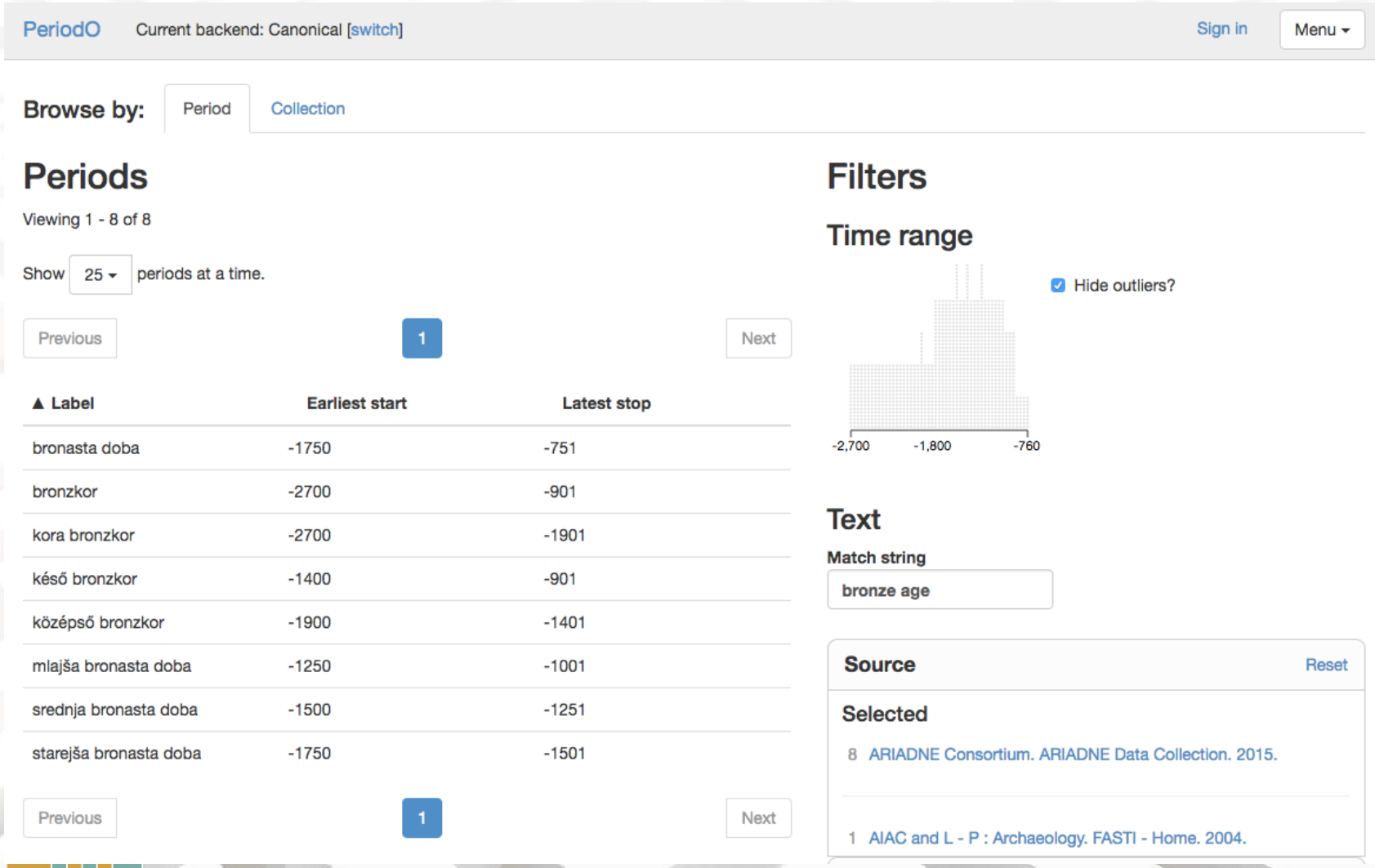
Tell me more.

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. Or contact us and ask whatever you want!

NATIONAL ENDOWMENT FOR THE Humanities

Working with PeriodO



Catalog Services About

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All fields | Search for resources in the Ariadne catalog ...

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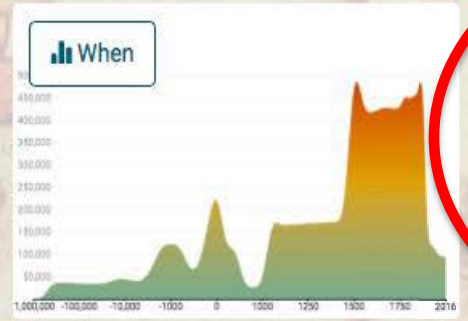
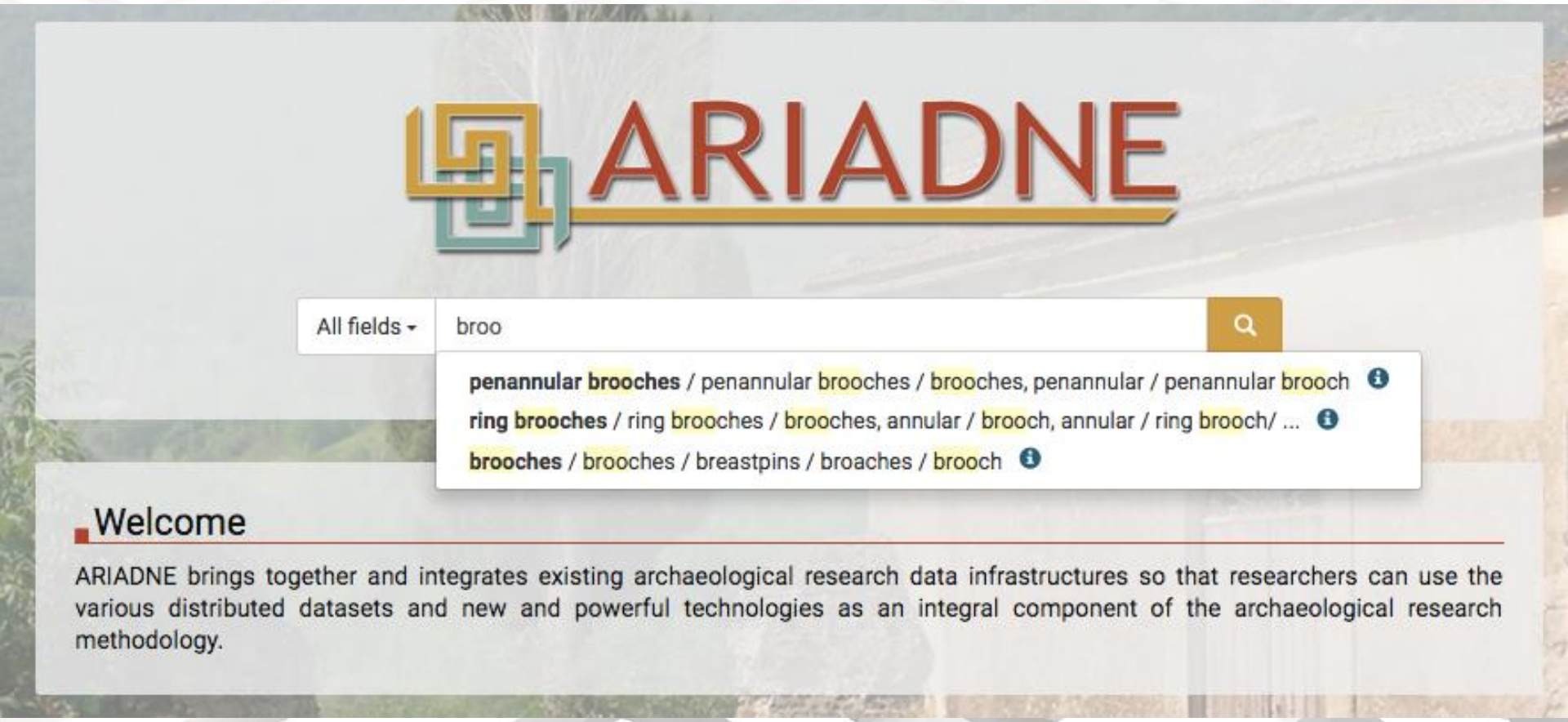
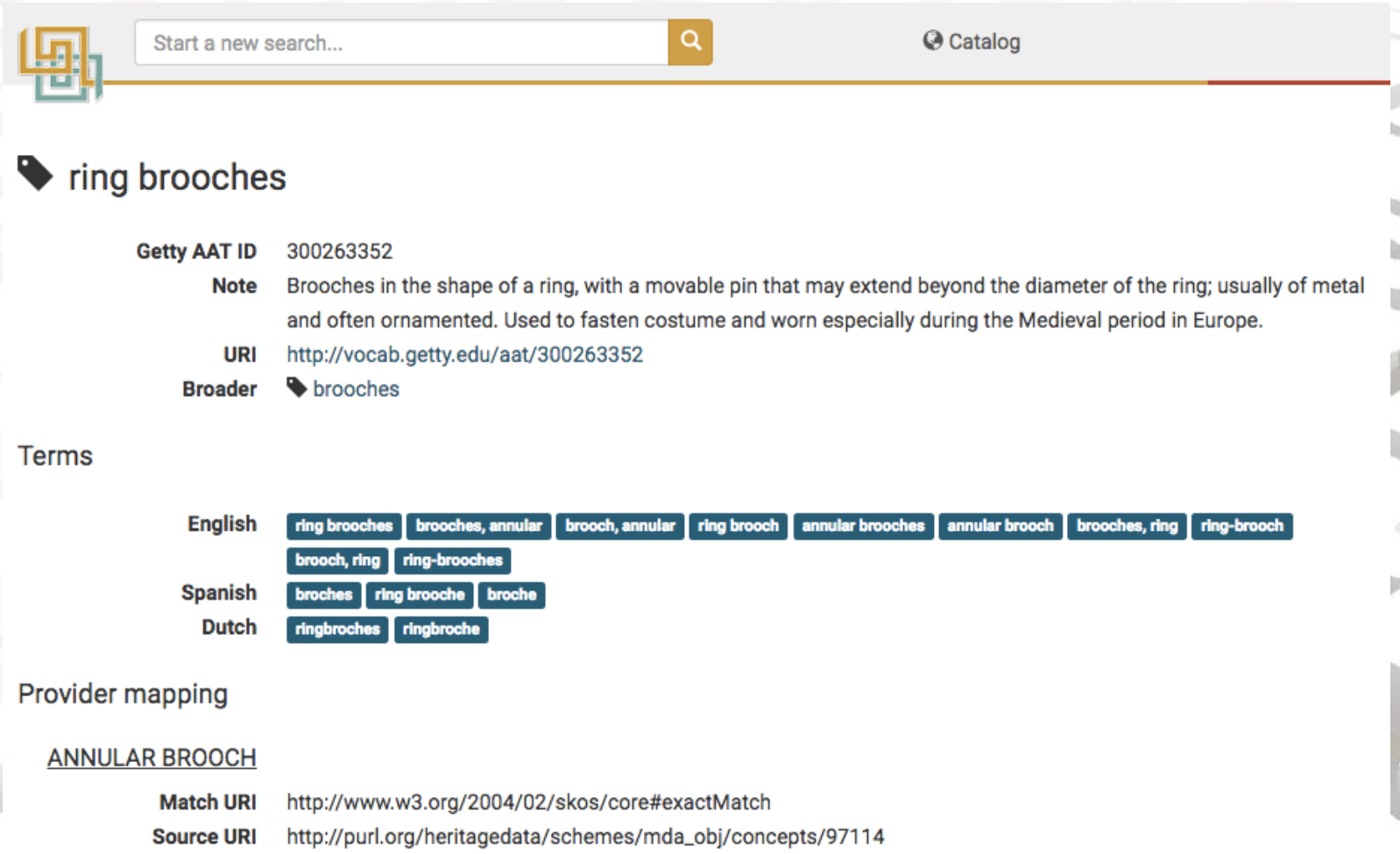


spears (weapons)
middens
small holdings
rural areas
UNCERTAIN
burial sites
roads
educational centres (buildings)
MODERN
Archeologisch: bureauonderzoek
Empire romain
scrapers (finishing tools)
parcellaire
Bas Moyen Age
Haut-Empire
Palazzo Giovio, Piazza Medaglie doro, 1
e-ne (MARC21)
Castle - unclassified
boundary walls
series (groups)
cist graves
Standing stone
rock carvings
aircraft
bridges (built works)
industrial complexes
lime kilns
fossé
human remains
Nederland
water wells
unidentified
Crannog
Hut site
commercial complexes
Age du fer
schooners
barns
cargo vessels
watercraft
inscriptions
fishponds
tomb slabs
caves
churchyards
ép contemporaine
mounds
farmhouses
archaeological sites
castles (fortifications)
MEDIEVAL
Ringfort - rath
inns
souterrains (passages)
cremations
Church
lithics
posts (structural elements)
puits
arrowheads
axes (tools)
physical features
agricultural settlements
kilns
Fulacht fia
gullies
Ringfort - cashel
windmills
Glyn
ring ditches
graves
ROMAN
pits (earthworks)
Enclosure
stray find
graveyards
Souterrain
drains
houses
Archaeology
coins (money)
farms
Como
barrows
ditches
mur
gatehouses
Roman
Ancona
Graveyard
brooches
earthworks (engineering works)
PROSPECTIE
burials
fauna
settlement
Quercus
silo
huts (houses)
buildings (structures)
boundaries
defense installations
manor houses
Byzantine
agricultural buildings
marine structures
forts
cairns
churches (buildings)
hoards (groupings)
flakes (object genre)
menhirs
burnt mounds
Ritual site - holy well
Protohistoire
cemeteries
fosse
La Tène
agricultural land
vessels (containers)
Temps Modernes
hearths
ép médiévale
POST MEDIEVAL
hospitals (buildings for health facility)
animal material
chapels (rooms or structures)
plats (maps)
sec. VI a.C.
inhabited places
deserted settlements
quarries (extracting complexes)
formal gardens
tile (materials)
cemetery
Archeologisch: booronderzoek
gardens (open spaces)
industry (object groupings)
paths
cow houses
cremation urns
cellars (storerooms)
ax heads
Modern period
industrie lithique
Ringfort - unclassified
habitat rural
dwellings
Antiquité romaine

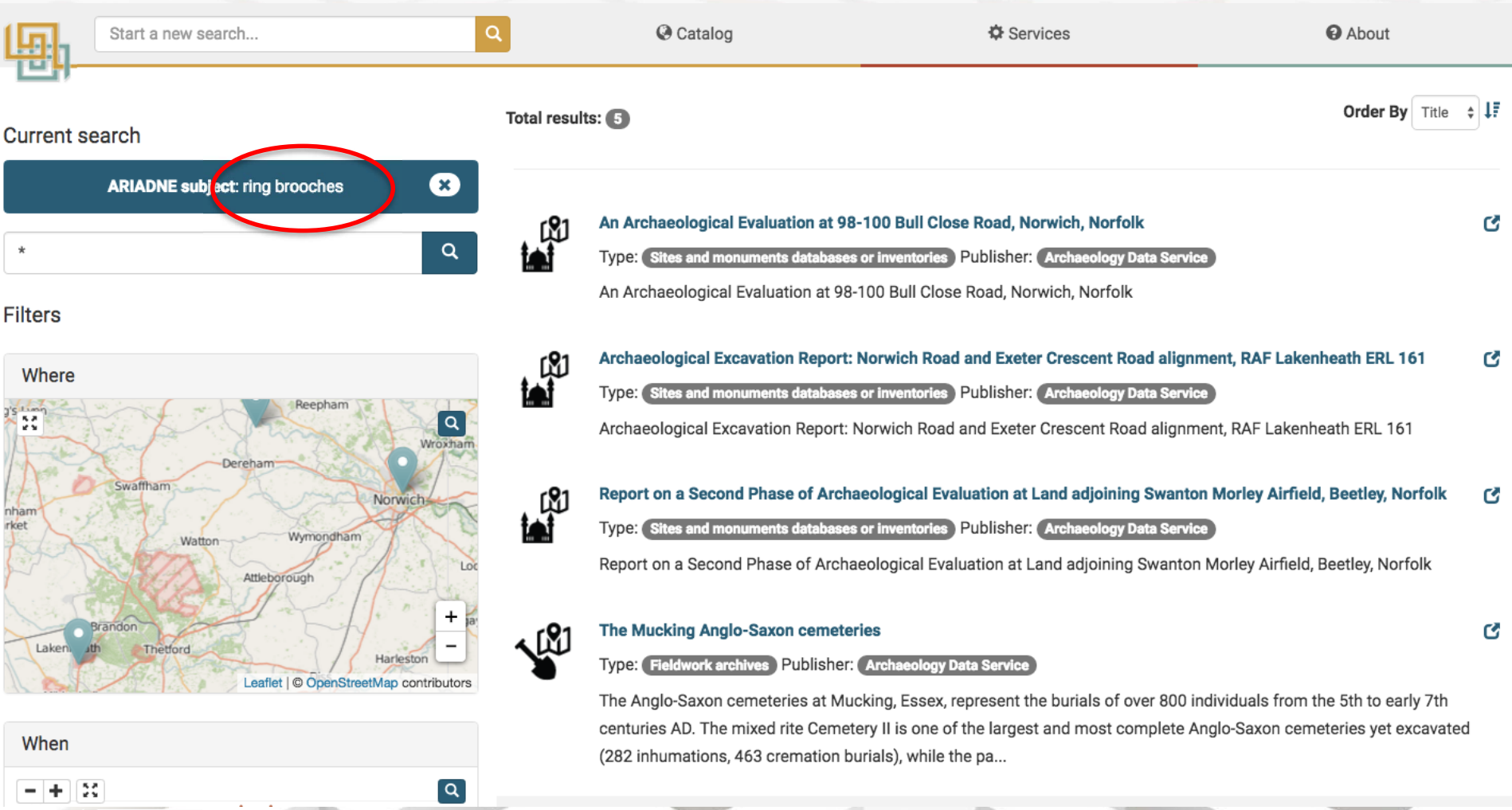
Mapping to the Getty Art & Architecture Thesaurus (AAT)



Mapping to the AAT



Mapping to the AAT



Mapping to the AAT

Start a new search... Catalog Services About

← Back to search results

Report on a Second Phase of Archaeological Evaluation at Land adjoining Swanton Morley Airfield, Beetley, Norfolk

Access resource on the web

Report on a Second Phase of Archaeological Evaluation at Land adjoining Swanton Morley Airfield, Beetley, Norfolk

ring brooches necklaces crematoria

Swanton Morley Airfield, Beetley, Norfolk

Metadata

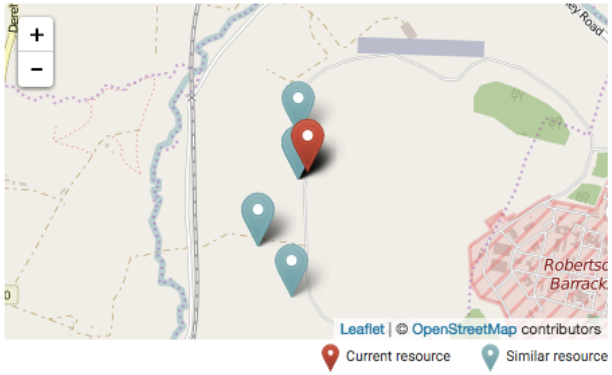
ARIADNE ID	14672180
Original ID	1942829
Language	English
Resource type	Sites and monuments databases or inventories
Subject	ring brooches necklaces crematoria
Dating	410 – 1066
Place	Swanton Morley Airfield, Beetley, Norfolk, ENGLAND *[0.954953, 52.729908]*
Type	Dataset
Publisher	Archaeology Data Service *[Organization]*
Issued	2011-10-11T00:00:00.0
Modified	2011-10-11T00:00:00.0

Responsible persons and organisations

Resource is part of

ArchSearch: ADS catalogue

Geographically similar



Thematically similar

Report on a Second Phase of Archaeological Evaluation at Land adjoining Swanton Morley Airfield, Beetley, Norfolk

What Next?

ESFRI (European Strategy Forum on Research Infrastructures)

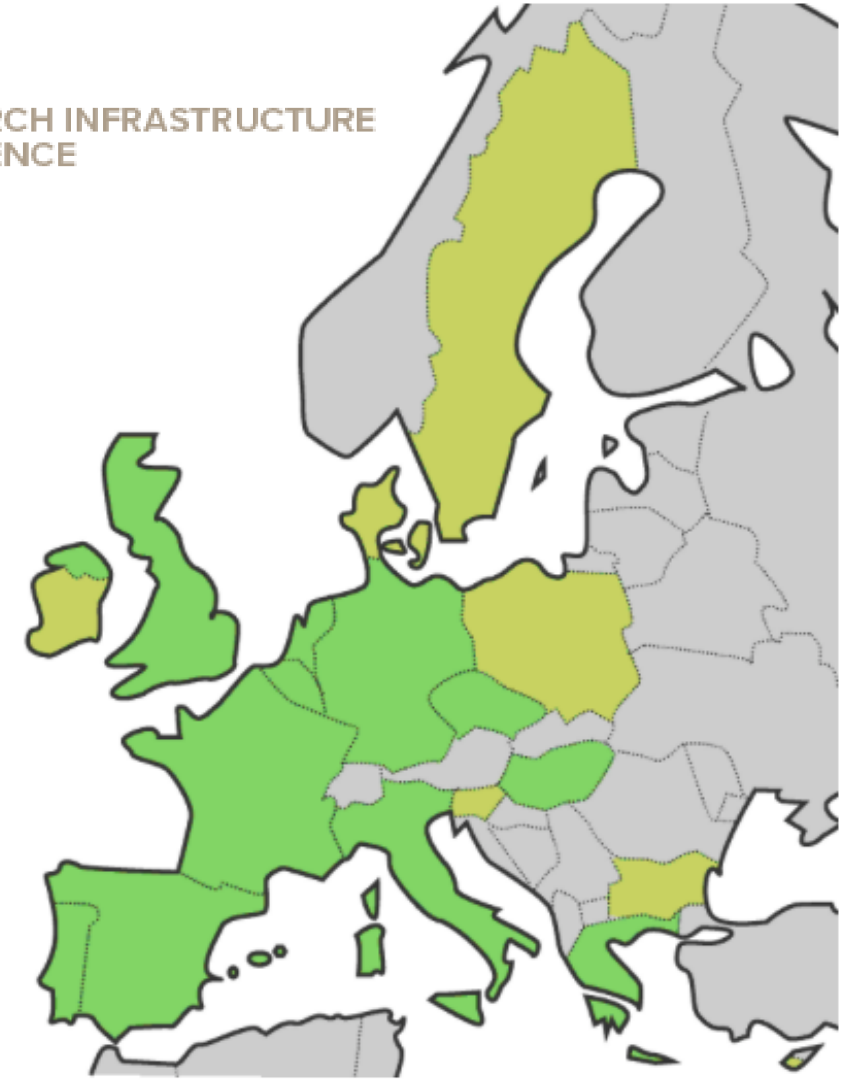
- DARIAH
- Roadmap 2016: Addition of Heritage Science

Pays européens

En mars 2015, 11 pays ont indiqué leur volonté de soutenir le projet E-RIHS.eu.

1. Allemagne
2. Belgique
3. Espagne
4. France
5. Grèce
6. Hongrie
7. Italie
8. Pays-Bas
9. Portugal
10. République tchèque
11. Royaume-Uni

E-RIHS
EUROPEAN RESEARCH INFRASTRUCTURE
FOR HERITAGE SCIENCE



Des institutions de ces différents pays seront partenaires dans le cadre de la réponse à l'appel à projet INFRADEV-02-2016 : *Preparatory Phase of ESFRI projects*.

Neuf autres pays se sont déclarés intéressés.

1. Brésil
2. Bulgarie
3. Chypre
4. Danemark
5. Irlande
6. Israël
7. Pologne
8. Slovénie
9. Suède

Conclusions

- Digital data preservation has a cost – but data collection / data loss is more expensive
- *La conservation des données numériques a un coût - mais la collecte et la perte de données sont bien plus chères*

- Digital data are re-used – and studies show there is both a research and economic value and benefit to preservation
- *Les données numériques sont réutilisées - et des études montrent que la préservation des données bénéficie à la recherche et a une valeur ajoutée économique*

- Current growth in national infrastructure
- *Il y a un nombre croissant d'infrastructures nationales*

- But there is also a need to work at European level
- *Mais il y a aussi un besoin de travailler au niveau européen*

- Importance of data standards and vocabulary mappings work
- *Importance des normes de données et de la mise en concordance des vocabulaires*

Digital preservation and access in a European perspective: Introducing ARIADNE

Préservation numérique et accès aux données dans une perspective européenne: Introduction à ARIADNE

Julian Richards

Director, Archaeology Data Service, University of York, UK

Federico Nurra

Service Activités Internationales, DST, Inrap, FR

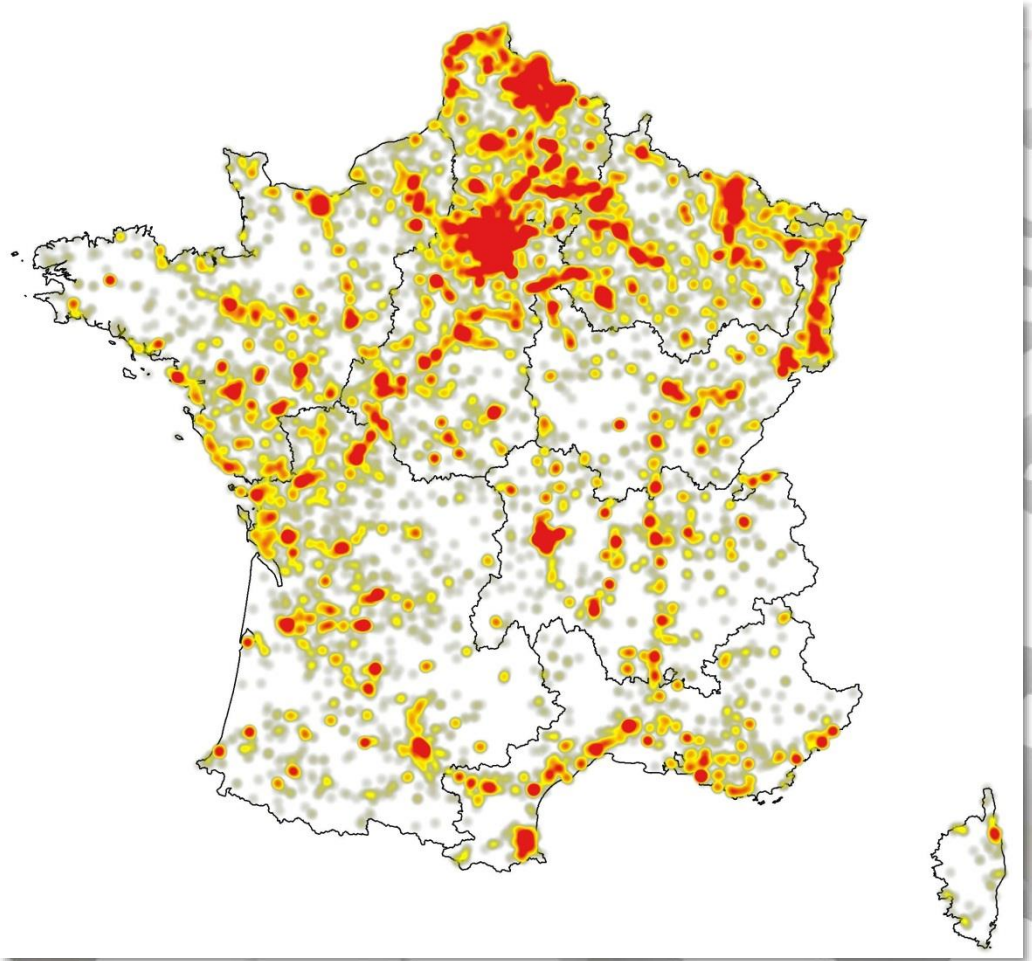
Pourquoi l'Inrap?

© Hervé Paitier, Inrap

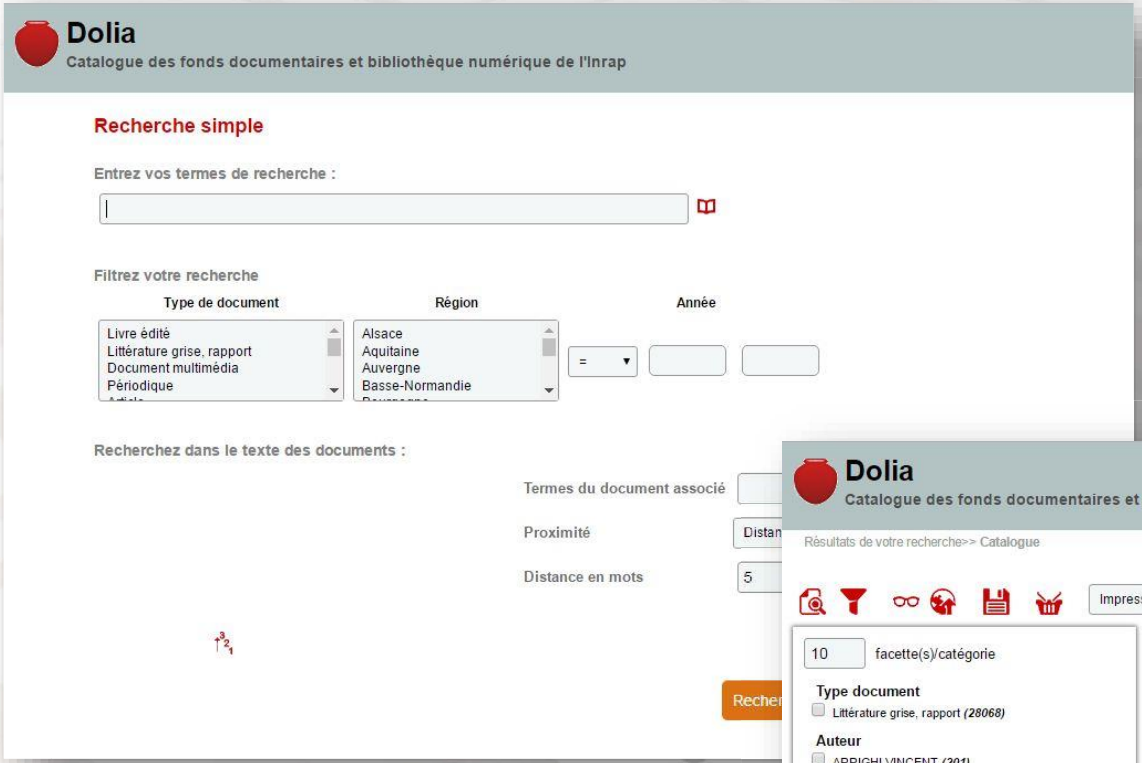
L’Inrap

L’Inrap en chiffres:

- ~ 50 bases territoriales
- ~ 1800 archéologues
- ~ 2000 diagnostics/an
- ~ 300 fouilles/an
- 15 ans d’expérience

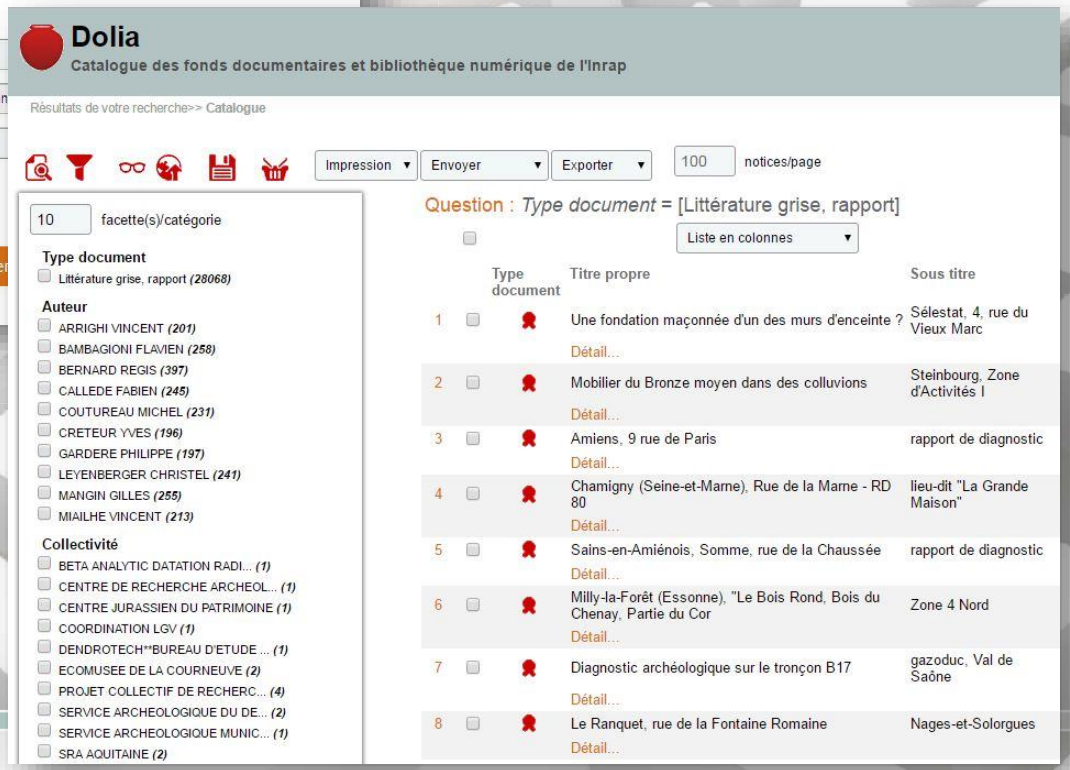


Point de départ



Dolia:

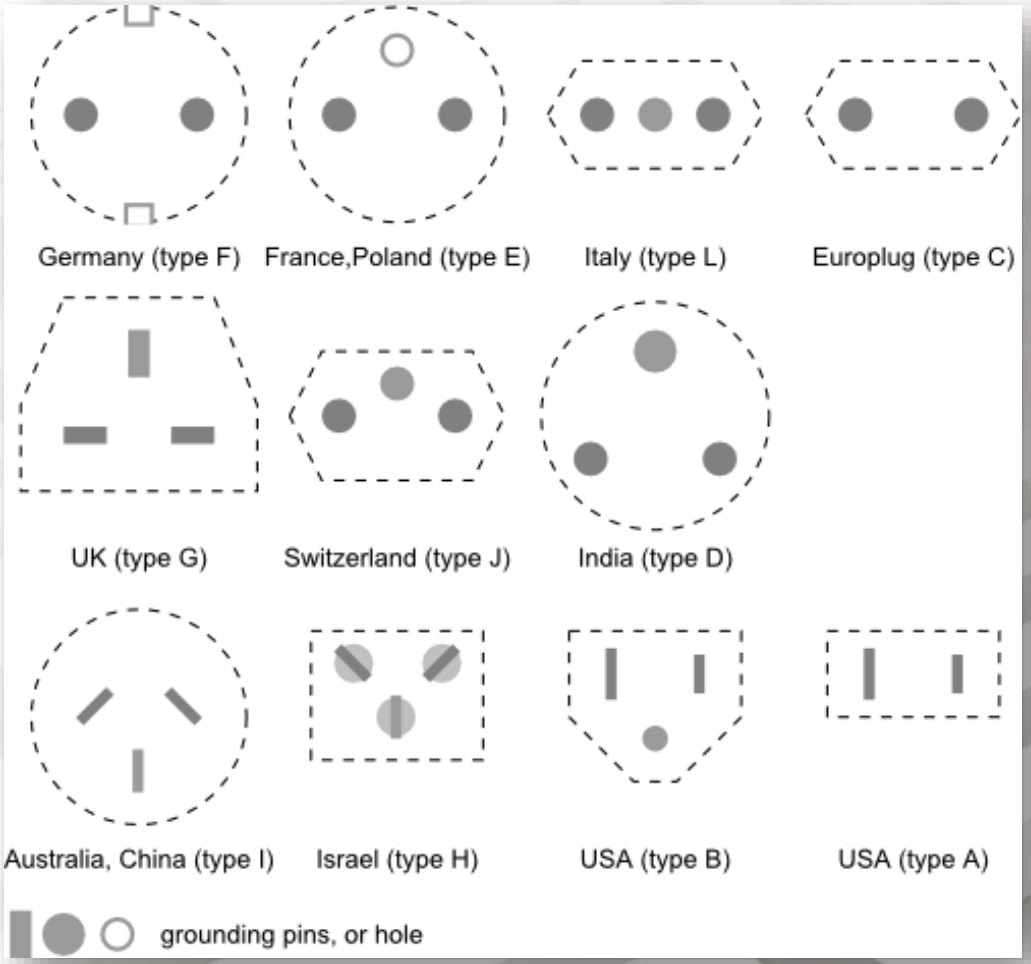
- Catalogue des fonds documentaires et bibliothèque numérique de l'Inrap



Dolia:

- ~ 28.000 rapports

Quoi faire?

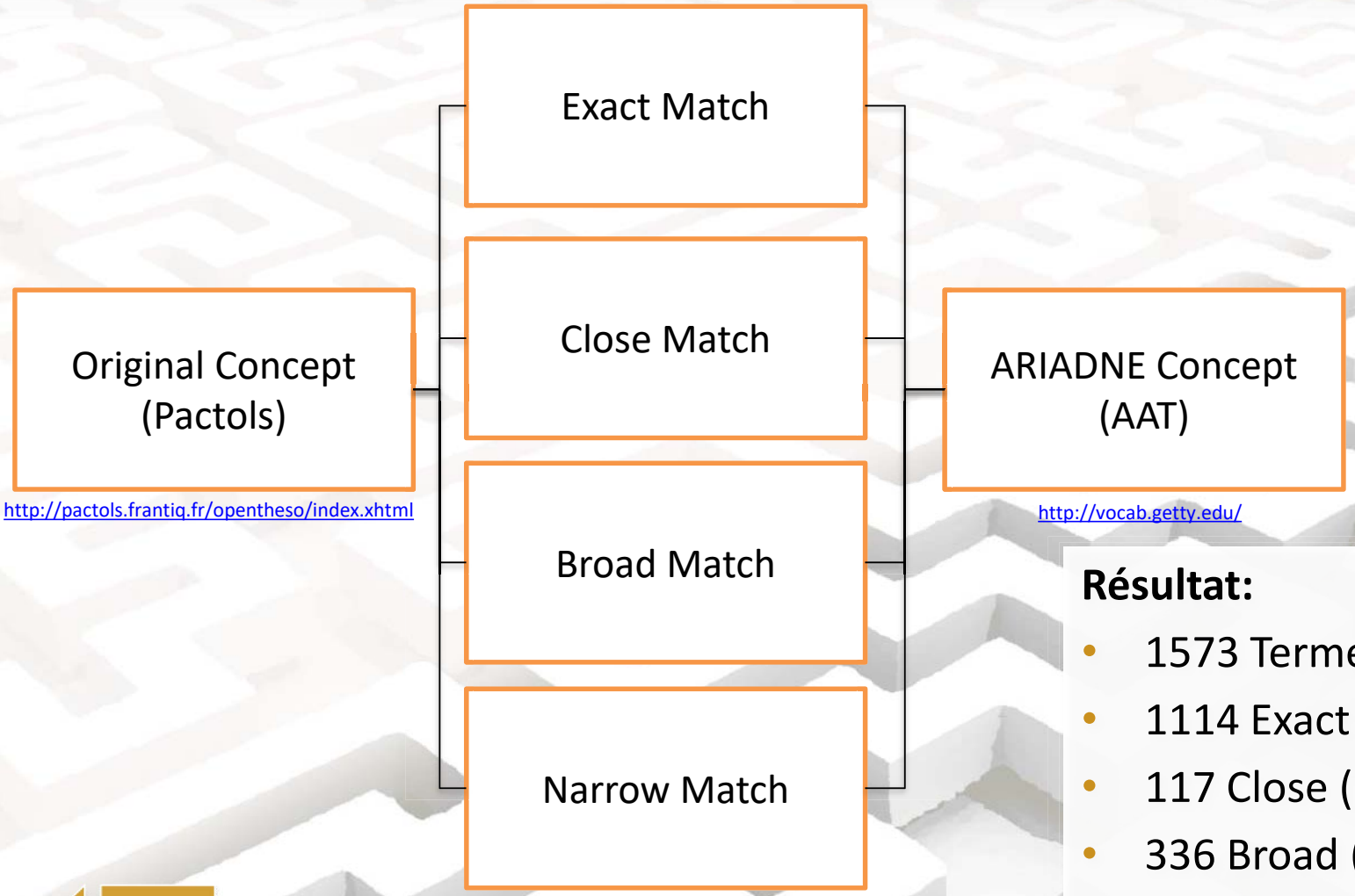

Germany (type F)
France,Poland (type E)
Italy (type L)
Europlug (type C)
UK (type G)
Switzerland (type J)
India (type D)
Australia, China (type I)
Israel (type H)
USA (type B)
USA (type A)
grounding pins, or hole

TRAVEL UNIVERSAL ADAPTOR
SURGE PROTECTOR
TECHly
EUROPE
EUROPE

Mapping Dolia (UNIMARC) - ACDM

Champ	DOLIA (UNIMARC)	ACDM
Titre	UNIMARC 200 [$a + $e]	dcterm:title
Description	UNIMARC 330 [$a]	dcterms:description
Date	UNIMARC 210 [$d]	dcterms:issued
Mots Clés	UNIMARC 610 [$a]	dcat:keyword
Langue	UNIMARC 101 [$a]	dcterms:language
Chronologie	UNIMARC 634 [$5]	acdm:temporal
…	…	…
Responsable Sc.	UNIMARC 700 [$a]	acdm:scientificResponsible
Sujet	UNIMARC 606 [$5]	acdm:nativeSubject
…	…	…

Alignement Pactols - AAT



Résultat:

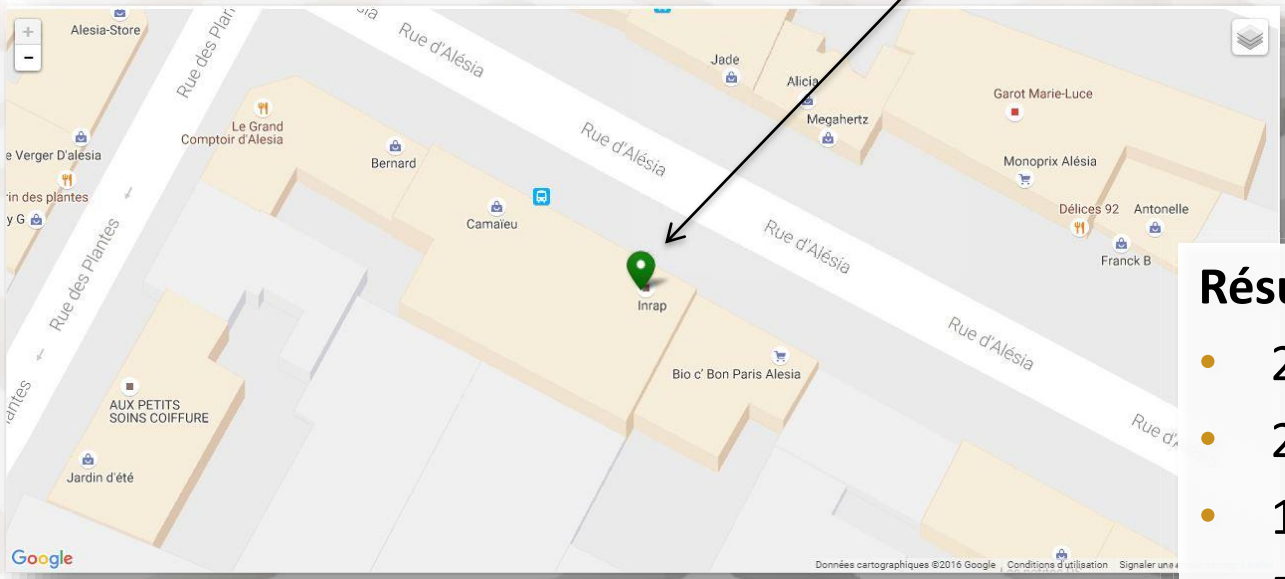
- 1573 Termes (*sur 5149*)
- 1114 Exact (70,8%)
- 117 Close (7,4%)
- 336 Broad (21,4%)
- 6 Narrow (0,4%)

Conversion Adresses - Géocodage

121, Rue d'Alésia, 75014 Paris

API Géoportail IGN (Géocodage) + BAN

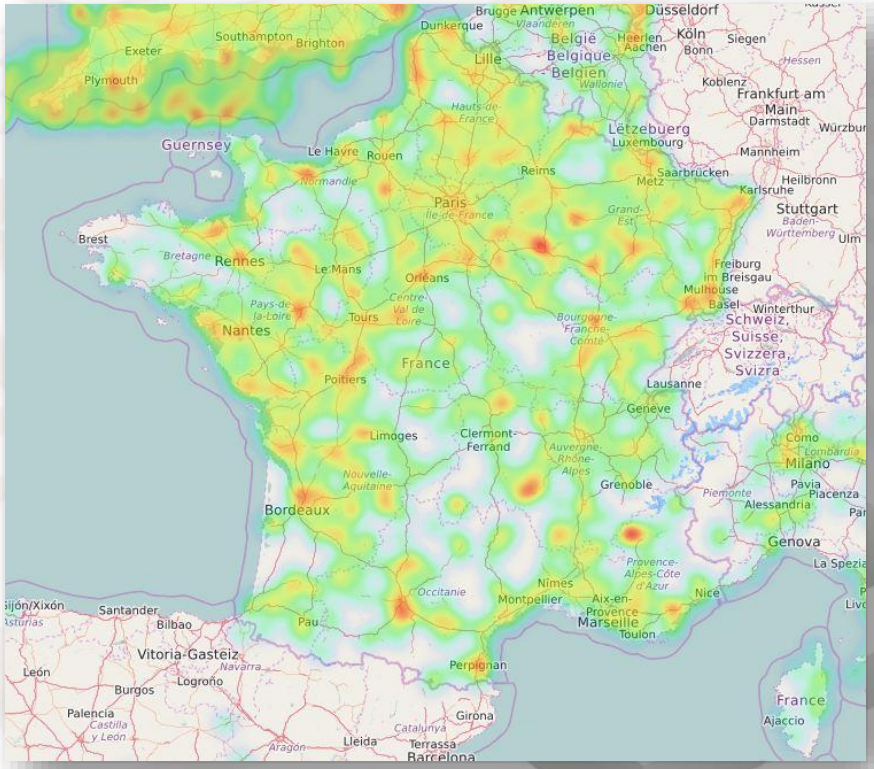
Lng: 2.323169
Lat: 48.829001



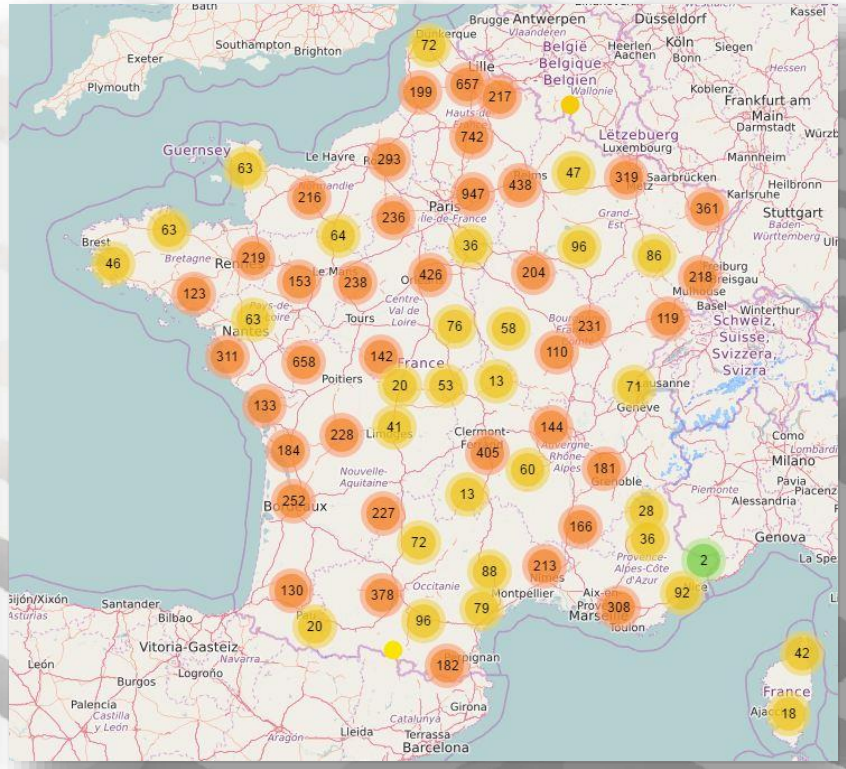
Résultat:

- 20526
- 2227 Point précis (10%)
- 12969 ~ Rue (59%)
- 5330 ~ Commune (25%)
- 1324 Mal placé (6%)

Conversion Adresses - Géocodage



Heatmap



Clustermap

Chronologie Pactols - PeriodO

Période (Pactols)	Earliest start	Latest stop
…	…	…
Néolithique	-6000	-2201
Néolithique ancien	-6000	-5301
Néolithique moyen	-5300	-4501
Néolithique récent	-4500	-2201
…	…	…
Protohistoire	-2200	-51
Âge du Bronze	-2200	-801
Bronze ancien	-2200	-1601
…	…	…

Résultat:

- 126 Termes chronologiques
- Archivage LOD sur http://perio.do/

Résultats

Subject AAT (LOD)

URI Ark - Dolia

Start a new search... | Catalog | Services

← Back to search results

Mauregard (Seine-et-Marne), La Croix des Trois Ormes : [rapport de fouille]

Access resource on the web

Rapport dopération archéologique

brickwork (masonry) | cellars (storerooms) | hydraulics | wells (structures) | coins (money) | jewelry | fibulae | glass (material) | metalwork (visual works) | crafts (art genres) | archaeozoology | fauna | archaeology | Gallo-Roman | Iron Age | kilns | hearths | phosphate | paleobotany | skeleton components (animal components) | postholes | corrals | mills (buildings) | roads

La Croix des Trois Ormes

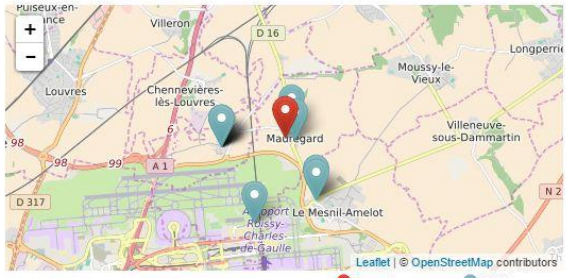
Metadata

ARIADNE ID	24933051
Original ID	23280.0
Language	French
Audience	scientifiques
Resource type	Event/intervention resources
Subject	brickwork (masonry) cellars (storerooms) hydraulics wells (structures) coins (money) jewelry fibulae glass (material) metalwork (visual works) crafts (art genres) archaeozoology fauna archaeology Gallo-Roman Iron Age kilns hearths phosphate paleobotany

Resource is part of

Dolia

Geographically similar



Thematically similar

- Brie-Comte-Robert (Seine-et-Marne), ZAC du Midi de la Plaine : rapport de fouille
- Melun (Seine-et-Marne), 7 bis rue Gate[illegible]iet : rapport de fouille
- La villa de Beaudisson : Mer, Loir-et-Cher, Beaudisson : rapport de fouille
- Cesson (Seine-et-Marne), Plaine du Moulin à Vent Zone Centre : Nécropole à incinérations de lâge du Bronze moyen, entité agro-pastorale du Hallstatt moyen et établissement agricole antique sur les flancs de la Butte du Luet : rapport de fouille
- Brétigny-sur-Orge (Essonne), ZAC de la Maison Neuve : lot ZF : rapport de fouille
- Le Plessis-Gassot (Val dOise), Les Rouilleaux - Carrière R.E.P : secteur ZB, parcelle 17 : rapport de fouilles
- Saint-Martial-de-Mirambeau, Le Bourg : Un village médiéval du IXe siècle au XVe siècle : rapport de fouilles

…à faire…

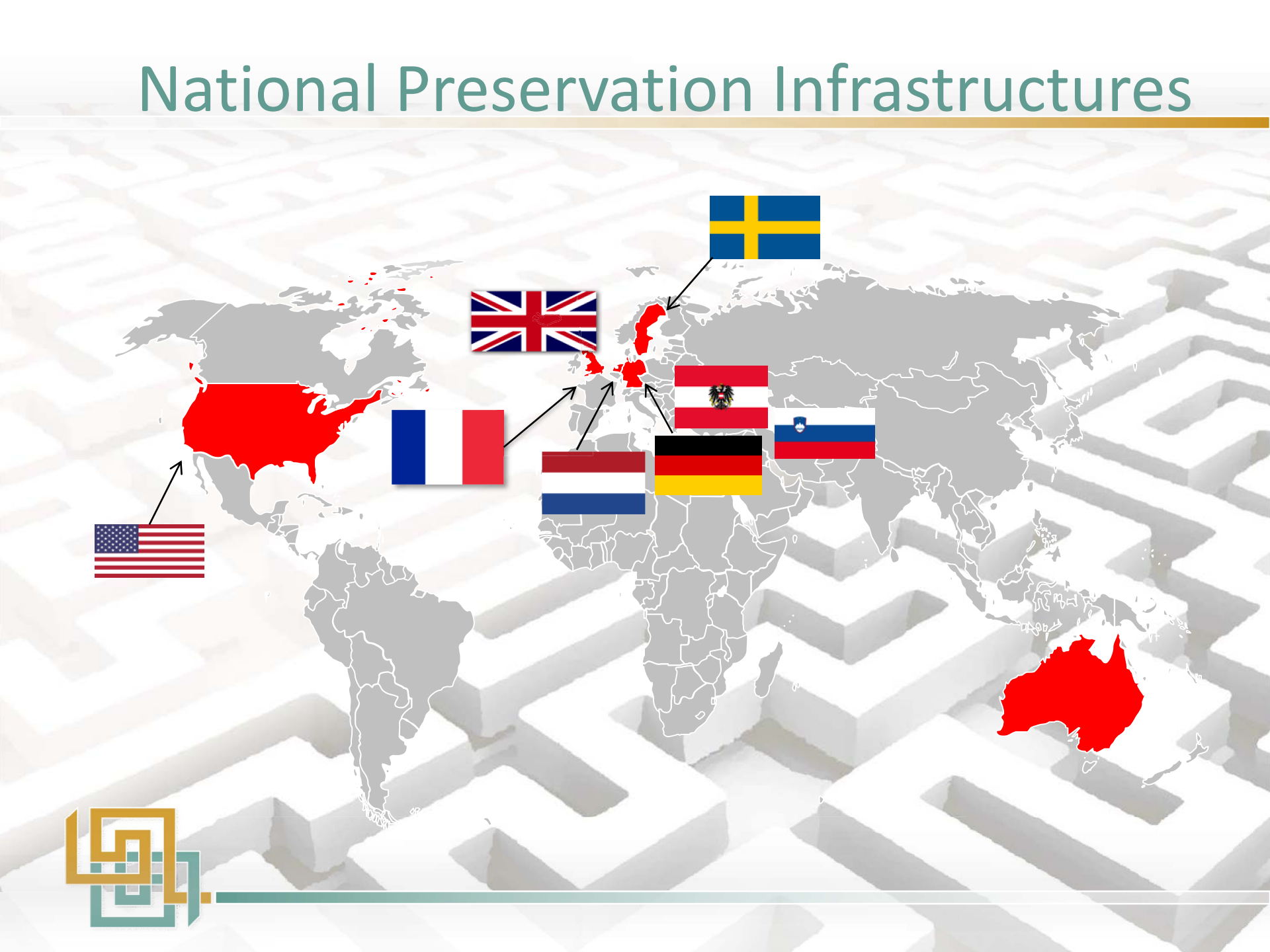
PeriodO (LOD)

Geonames

Perspectives

- Infrastructure nationale
- Langage commun
- Intégration des données issues de l’archéologie
- Interopérabilité

National Preservation Infrastructures



Prochaines étapes

Extended Conceptual Reference Model (Developed by FORTH & PIN)

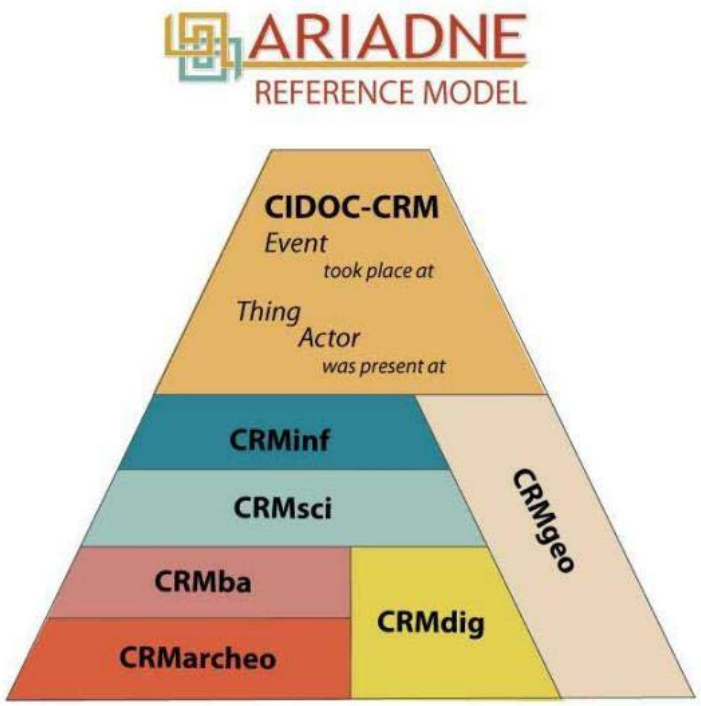


Figure 1: ARIADNE Reference Model (ARIADNE RM)

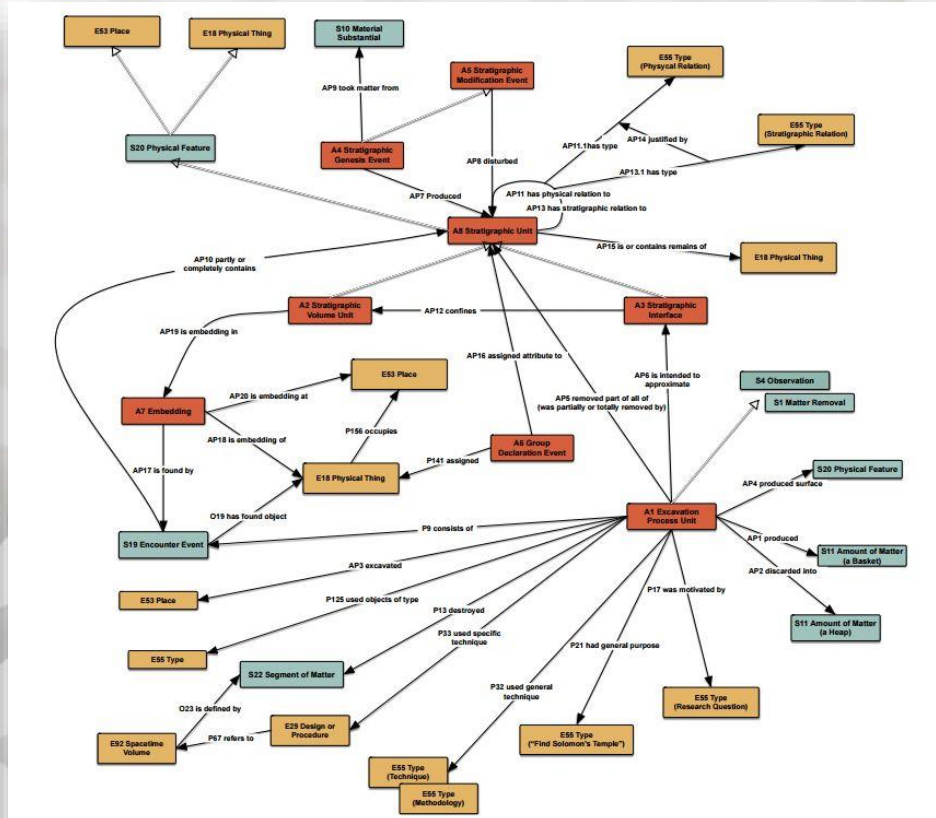


Figure 10: CRMarchaeo conceptual model

http://www.ariadne-infrastructure.eu/Resources/D14.1-Extended-CRM

Merci pour votre attention

email: info@ariadne-infrastructure.eu

email Inrap: ariadne@inrap.fr

http://www.ariadne-infrastructure.eu

http://portal.ariadne-infrastructure.eu

Twitter: @ariadne-infrastructure

ARIADNE is a project funded by the European Commission under the Community's Seventh Framework Programme, contract no. FP7-INFRASTRUCTURES-2012-1-313193.

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