

# Making Archaeology FAIR: in the ADS and ARIADNE



Julian Richards, ADS  
University of York, UK

# FAIR principles

## Make your data:

- **F**indable
- **A**ccessible
- **I**nteroperable
- **R**eusable

### Findable

- Descriptive metadata
- Persistent Identifiers

### Accessible

- Determining what to share
- Participant consent and risk management
- Access status

### Interoperable

- XML standards
- Data Documentation Initiative
- CDISC

### Reusable

- Rights and licence models
- Permitted and non-permitted use

<http://datafairport.org/>



# In practice....

- Being FAIR when archaeological information is

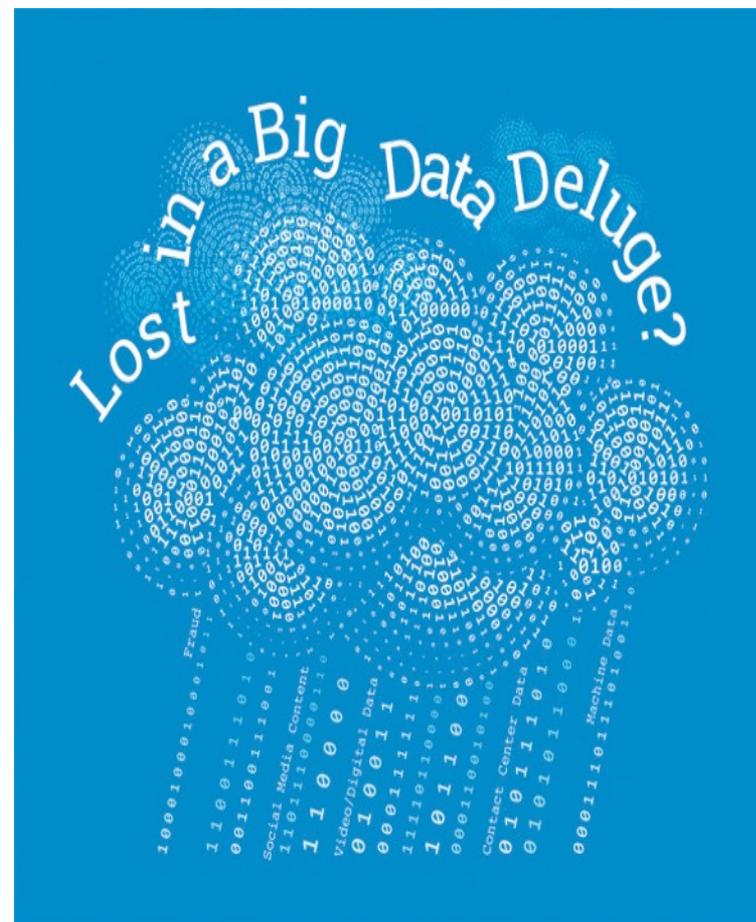
## MEAN:

- Miscellaneous
- Exceptional
- Arbitrary
- Nonconformist

(Isto Huvila, Centre for Digital Heritage  
conference, University of Leiden 2017)

# Digital Access Challenges

- Finding and joining up fragmented datasets
- Interoperability across datasets
- Lack of suitable data standards
- Need for controlled vocabularies and ontologies
- Permanence – Digital Object Identifiers (DOIs)
- Identifying quality data
- Metadata vs paradata
- Lack of clear rights statements



# ARIADNE European User Needs Research

- 94% of researchers agreed that it is important that datasets are available online in an uncomplicated way.
- 87% of researchers agreed that they often do not know what research data is available because it is stored in so many different places and databases.
- 74% of researchers consider it important to have easy access to international datasets.
- The perceived lack of professional recognition and reward for sharing data is a barrier to data sharing for 72% of researchers.
- A lack of institutional or international repositories for archaeological data sets was a barrier to data sharing for 60% of researchers.



# Professional ethics: testing and re-use

INTEGRAL to archaeological data creation methodology is the understanding that the material archived will be available to others to reuse, so that:

- Interpretations can be shown to be underpinned by formally recorded, rigorous and 'complete' data
- Interpretations can be challenged
- Further interpretations can be made
- Further analysis can be made (e.g. with new techniques), again leading to new interpretation

# The Archaeology Data Service

- University of York, 1996 - present
- Shared UK digital research infrastructure
- Mandated digital archive for UK research councils and Historic England etc
- 14 staff
- Business model based upon charging policy
- Open Access data:
  - 1.4m records for archaeology of UK
  - > 60,000 fieldwork reports
  - > 1800 full project digital archives
  - 10Tb; 2,054,846 **files**; 18,505 recorded **processes**





HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT GALLERY HELP

**FEATURED COLLECTION**

**Isles of Scilly Designated Wrecks**  
**Interpretation: The Wheel Wreck**

The Archaeology Data Service is the only accredited digital repository in the UK for heritage data, with over 20 years of experience supporting research, learning and teaching with free, high quality and dependable digital resources.



HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT GALLERY HELP

# SEARCH

Search our resources

The ADS has three main resources click on a button below to search your chosen resource

**ARCHSEARCH**

Search Monument and Event Records

**ARCHIVES**

Search our Data

**LIBRARY**

Search Journals, Books and Reports

**NEWS**

**CoreTrustSeal Certification**

After lots of hard work the ADS is pleased to acknowledge the CoreTrustSeal Board has approved its application for CoreTrustSeal certification.

**SEARCH**

The ADS disseminates a broad range of digital heritage data that are free to access and re-use. This includes data rich archives, unpublished reports, journals and metadata records.

**NEWS**

Are you visiting our website order to use marine data? If so would you mind taking a few minutes to answer the following questionnaire to assess the flow of marine data in the global economy?



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University of York Legal Statements | Website Terms and Conditions | Cookies | Privacy Policy

1.4m records to 70 reports in 3 mouse clicks

ads ARCHAEOLOGY DATA SERVICE

HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT HELP

RESET QUERY

KEYWORD  1357285 Total results. Download Result in XML Download Result in CSV

SEARCH

**BROWSER BASIC**

▼ WHAT

- ▶ Event 136011
- ▶ Evidence 258480
- ▶ Maritime 60450
- ▶ Monument Types 1153207
- ▶ Object Types 180544

▼ WHERE

- ▶ England 816731
- ▶ Northern Ireland 18468
- ▶ Scotland 348066
- ▶ Wales 151236
- ▶ Isle Of Man 2861

▼ WHEN

- ▶ Early Prehistoric 14051
- ▶ Later Prehistoric 96534
- ▶ Roman 73568
- ▶ Early Medieval 21234
- ▶ Medieval 143769
- ▶ Post Medieval 356413
- ▶ Modern 76184

**ABBAY FIELDS ABBEYMEAD**  
 Historic England NRHE Excavation Index for England  
 Followed by excavation 14/86 (Event 652905). Observation of sewer trench  
 GLOUCESTERSHIRE

**AINSBROOK SITE**  
 Historic England NRHE Excavation Index for England  
 Evaluation and excavation of the site of a Viking period hoard recorded a disturbed burial with grave goods and a large Bronze Age enclosure. Metal detectorists had previously removed '7000' artefacts from the site, the location of which is kept secret.  
 NORTH YORKSHIRE

**APPLEGARTH WEST OF ST ANDREWS CHURCHYARD**  
 Historic England NRHE Excavation Index for England  
 Two small trial trenches in the garden of a 1960s bungalow adjacent to the churchyard boundary wall on the west side of St Andrew's Church revealed traces of the Roman road from the Mendips to the River Avon, possibly RR540. There were also indications of a possible Roman roadside settlement, as well as earlier medieval activity pre-dating the laying out of the market place.  
 BATH AND NORTH EAST SOMERSET



ads ARCHAEOLOGY DATA SERVICE

HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT HELP

WHERE Greater London WHEN Early Prehistoric RESOURCE Grey Lit Library RESET QUERY

KEYWORD  70 Total results. Download Result in XML Download Result in CSV

SEARCH

**BROWSER ADVANCED**

▼ WHAT

- ▶ Evidence 21
- ▶ Monument Types 59
- ▶ Object Types 54

▼ WHERE

- ▼ England 70
  - ▶ Greater London 70
  - ▶ Kent 3
  - ▶ Suffolk 1
  - ▶ Warwickshire 1

▼ WHEN

- ▶ Early Prehistoric 70
- ▶ Later Prehistoric 29
- ▶ Roman 26
- ▶ Early Medieval 8
- ▶ Medieval 23
- ▶ Post Medieval 48
- ▶ Modern 9

▼ RESOURCE

- ▶ Grey Lit Library 70

**437 Uxbridge Road Ealing Archaeological Evaluation**  
 ADS Grey Literature Library  
 437 Uxbridge Road, Ealing: Archaeological Evaluation  
 GREATER LONDON

**642 Blackheath Road Deptford London Borough of Greenwich**  
 ADS Grey Literature Library  
 6-42 Blackheath Road, Deptford, London Borough of Greenwich  
 GREATER LONDON

**A Phase III Archaeological Evaluation on Blocks E F G K M and N Mardyke Estate Rainham London Borough of Havering RM13 8PS**  
 ADS Grey Literature Library  
 A Phase III Archaeological Evaluation on Blocks E, F, G, K, M and N, Mardyke Estate, Rainham, London Borough of Havering, RM13 8PS  
 GREATER LONDON

**A13 M25 TO LAKESIDE WIDENING. DMRB STAGE II ASSESSMENT. ARCHAEOLOGICAL ASSESSMENT DRAFT**  
 ADS Grey Literature Library  
 A13: M25 TO LAKESIDE WIDENING. DMRB STAGE II ASSESSMENT. ARCHAEOLOGICAL ASSESSMENT (DRAFT)  
 GREATER LONDON

Download the report; cite by Digital Object Identifier

**Assessment of an Archaeological Excavation at 551 Old Kent Road, London Borough of Southwark**

**Description:** Assessment of an Archaeological Excavation at 551 Old Kent Road, London Borough of Southwark

**Country:** ENGLAND  
**County:** GREATER LONDON  
**District:** SOUTHWARK  
**Parish:** SOUTHWARK  
**Named Location:** 551  
**Grid reference:** TQ3  
**Map reference:** [EP5]

**Period/Subject:** ROMAN  
 BURNT FLINT, MESOLITHIC  
 MEDIEVAL - SLAG, F  
 MEDIEVAL - MARSH

**Identifiers:**

**Go to Grey Lit Report**

ADVANCE  
MAP

DOCUMENT VERIFICATION

551 OLD KENT ROAD  
LONDON SE1  
LONDON BOROUGH OF SOUTHWARK

EXCAVATION

Quality Control

Pre-Construct Archaeology Limited		K1698	
Name & Title	Signature	Date	
Text Prepared by: Ireneo Grosso		April 2008	
Graphics Prepared by: Hayley Baxter		April 2008	
Graphics Checked by: Josephine Brown	<i>[Signature]</i>	April 2008	
Project Manager Sign-off: Jon Butler	<i>[Signature]</i>	April 2008	

Revision No.	Date	Checked	Approved

Pre-Construct Archaeology Ltd  
 Unit 54  
 Brockley Cross Business Centre  
 96 Endwell Road  
 London  
 SE4 2PD

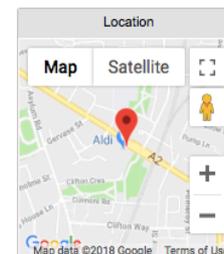
ads ARCHAEOLOGY DATA SERVICE

HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT HELP LOGIN

Library Home > Browse Series > Series > Report (in Series)

**Grosso, I., (2008). Assessment of an Archaeological Excavation at 551 Old Kent Road, London Borough of Southwark. Brockley: Pre-Construct Archaeology Limited.**

Assessment of an Archaeological Excavation at 551 Old Kent Road, London Borough of Southwark
Pre-Construct Archaeology Ltd (London) unpublished report series
preconstf-38300_1.pdf (3 MB) : <a href="#">Download</a>
<a href="https://doi.org/10.5284/1016952">https://doi.org/10.5284/1016952</a>
Report (in Series)
An archaeological field excavation followed an earlier evaluation of the site. The earlier evaluation of the site demonstrated archaeological preservation in trench 1 and further archaeological work was undertaken with the excavation of trenches 3 and 4. Natural sandy brick earth was found across the excavation area at a level of 0.65m OD to the south in trench 3 and gradually sloping downwards, at a level of 0.20m OD, to the north in trench 4. An E-W prehistoric ditch, already observed during the initial evaluation, truncated the natural sandy brick earth and presented a terminus to the west in trench 3. Another possible curvilinear prehistoric cut feature was observed just next to the ditch but unfortunately no cultural material was found in its fill. A peat layer, sealing the prehistoric cut features, contained a single cattle bone and few burnt flints. Although the near absence of cultural material, this layer, occasionally disturbed by rooting, indicates that the study site was marshy, marginal land possibly during the Saxon and Medieval periods. The post medieval activity on the study site was represented by two postholes sealed by a sequence of homogenous clay layers, largely devoid of cultural material, indicating the site had been largely flooded and abandoned in the post-medieval period until the beginning of the ground works associated with the construction of the Georgian terrace house and of the N-S sewer to the west of the study site.
I Grosso
Pre-Construct Archaeology Limited



Grosso, I., (2008). *Assessment of an Archaeological Excavation at 551 Old Kent Road, London Borough of Southwark*. Brockley: Pre-Construct Archaeology Limited.

Locations:	Site:	551 Old Kent Road
	Parish:	SOUTHWARK
	District:	SOUTHWARK
	County:	GREATER LONDON
	Country:	England
	Location - Auto Detected:	Watling Street
	Grid Reference:	535010, 177400 (Easting, Northing)
Subjects / Periods:	Find:	Clay Tobacco Pipe Post Medieval
	Find:	Lithics Mesolithic
	Find:	Pottery Post Medieval
	Find:	Pottery Roman
	Monus:	Ditch Uncertain
	Monus:	Post Hole Post Medieval
	Monus:	Post Hole Roman
		Neolithic
		Medieval
		Mesolithic
Temporal - Auto Detected:	Medieval	
	Roman	
	Prehistoric	
Temporal - Auto Detected:	2007	

## Heritage Data

### Linked Data Vocabularies for Cultural Heritage

Scheme List	Concept Search	SPARQL Query	About The Project
<a href="http://purl.org/heritagedata/schemes/eh_tmt2">http://purl.org/heritagedata/schemes/eh_tmt2</a> (QR Code)			
Property	Value		
<a href="#">rdf:type</a>	<a href="#">skos:ConceptScheme</a>		
<a href="#">cc:license</a>	<a href="http://creativecommons.org/licenses/by/3.0">http://creativecommons.org/licenses/by/3.0</a>		
<a href="#">cc:attributionURL</a>	<a href="http://www.historicengland.org.uk">http://www.historicengland.org.uk</a>		
<a href="#">cc:attributionName</a>	Historic England		
<a href="#">dct:title</a>	FISH Thesaurus of Monument Types		
<a href="#">rdfs:label</a>	FISH Thesaurus of Monument Types		
<a href="#">skos:hasTopConcept</a>	MONUMENT <BY FORM>		
<a href="#">skos:hasTopConcept</a>	RELIGIOUS RITUAL AND FUNERARY		
<a href="#">skos:hasTopConcept</a>	GARDENS PARKS AND URBAN SPACES		
<a href="#">skos:hasTopConcept</a>	WATER SUPPLY AND DRAINAGE		
<a href="#">skos:hasTopConcept</a>	COMMERCIAL		
<a href="#">skos:hasTopConcept</a>	COMMEMORATIVE		
<a href="#">skos:hasTopConcept</a>	DEFENCE		
<a href="#">skos:hasTopConcept</a>	DOMESTIC		
<a href="#">skos:hasTopConcept</a>	INDUSTRIAL		
<a href="#">skos:hasTopConcept</a>	AGRICULTURE AND SUBSISTENCE		
<a href="#">skos:hasTopConcept</a>	EDUCATION		
<a href="#">skos:hasTopConcept</a>	CIVIL		
<a href="#">skos:hasTopConcept</a>	HEALTH AND WELFARE		
<a href="#">skos:hasTopConcept</a>	UNASSIGNED		
<a href="#">skos:hasTopConcept</a>	TRANSPORT		
<a href="#">skos:hasTopConcept</a>	COMMUNICATIONS		
<a href="#">skos:hasTopConcept</a>	MARITIME		
<a href="#">skos:hasTopConcept</a>	RECREATIONAL		
<a href="#">dct:description</a>	Terminology relating to the built and buried heritage of the British Isles and used for recording sites, monuments, buildings and structures.		
<a href="#">dct:coverage</a>	<a href="http://data.ordnancesurvey.co.uk/id/country/england">http://data.ordnancesurvey.co.uk/id/country/england</a>		
<a href="#">dct:publisher</a>	<a href="http://www.historicengland.org.uk">http://www.historicengland.org.uk</a>		

HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT GALLERY HELP

BROWSER BASIC

[RESET QUERY](#)

KEYWORD

SEARCH

[Download results as XML] [Download results as CSV]

1402540 results (page 1 OF 28051) ◀◀ 123 ... ▶▶

---

▼ WHAT

- ▶  Event 176668
- ▶  Evidence 262879
- ▶  Maritime 60601
- ▶  Monument Types 1227742
- ▶  Object Types 204796

---

▼ WHERE

- ▶  England 844326
- ▶  Northern Ireland 18452
- ▶  Scotland 365469
- ▶  Wales 151352
- ▶  Isle Of Man 2864

---

▼ WHEN

- ▶  Early Prehistoric 15638
- ▶  Later Prehistoric 105192
- Roman 81087
- Early Medieval 24416
- ▶  Medieval 162011
- ▶  Post Medieval 383957
- ▶  Modern 84421

**A LOOK IN THE REAR VIEW MIRROR**

**Historic England NRHE Excavation Index for England**

Report examining the developing relationship between modern road construction, particularly motorways, and the development of archaeology, primarily in the period since the Second World War.

WILTSHIRE

---

**ABBEY FIELDS ABBEYMead**

**Historic England NRHE Excavation Index for England**

Followed by excavation 14/86 (Event 652905). Observation of sewer trench.

GLOUCESTERSHIRE

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**AINSBROOK SITE**

**Historic England NRHE Excavation Index for England**

Evaluation and excavation of the site of a Viking period hoard recorded a disturbed burial with grave goods and a large Bronze Age enclosure. Metal detectorists had previously removed '7000' artefacts from the site, the location of which is kept secret. County location data applied to aid retrieval 2018.

NORTH YORKSHIRE

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**APPI EGARTH WEST OF ST ANDREWS CHURCHYARD**

ADVANCED MAP

http://archaeologydataservice.ac.uk

12

RESET QUERY

BROWSER BASIC

ADVANCED MAP

KEYWORD

SEARCH

[Download results as XML] [Download results as CSV]

1392204 results (page 1 OF 27845)

◀◀ 123 ... ▶▶

▼ WHAT

- ▶ ○ Event 176441
- ▶ ○ Evidence 260599
- ▼ ○ Maritime 60586
  - Aircraft Catapult Vessel 1
  - Block Ship 29
  - Cable Layer 7
  - ▼ ○ Craft 17462
    - Canoe 42
    - ▶ ○ Coble 82
    - Gig 8
    - Logboat 335
    - Schuit 3
  - ▶ ○ Customs Boat 22
  - Experimental Craft 1
  - ▶ ○ Factory Ship 9
  - ▶ ○ Fishing Vessel 5315
  - Galley 52
  - House Boat 59
  - ▶ ○ Hulk 83
  - Launch 49
  - ▶ ○ Leisure Craft 437
  - Motor Launch 27
  - ▶ ○ Mulberry Harbour 7
  - ▶ ○ Naval Support Vessel 717
  - Paddle Steamer 171
  - ▶ ○ Patrol Vessel 366
  - Pontoon 43

### A LOOK IN THE REAR VIEW MIRROR

#### Historic England NRHE Excavation Index for England

Report examining the developing relationship between modern road construction, particularly motorways, and the development of archaeology, primarily in the period since the Second World War.

WILTSHIRE

### ABBAY FIELDS ABBEYMead

#### Historic England NRHE Excavation Index for England

Followed by excavation 14/86 (Event 652905). Observation of sewer trench.

GLOUCESTERSHIRE

### AINSBROOK SITE

#### Historic England NRHE Excavation Index for England

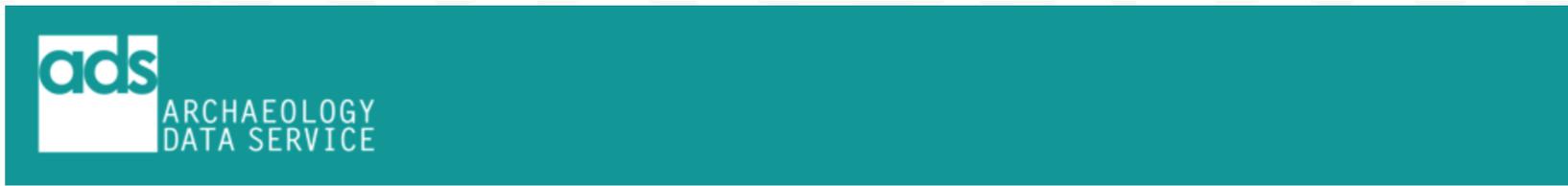
Evaluation and excavation of the site of a Viking period hoard recorded a disturbed burial with grave goods and a large Bronze Age enclosure. Metal detectorists had previously removed '7000' artefacts from the site, the location of which is kept secret. County location data applied to aid retrieval 2018.

NORTH YORKSHIRE

### APPLEGARTH WEST OF ST ANDREWS CHURCHYARD

#### Historic England NRHE Excavation Index for England

Two small trial trenches in the garden of a 1960s bungalow adjacent to the churchyard boundary wall on the west side of St Andrew's Church revealed traces of the Roman road from the Mendips to the River Avon, possibly BR540. There were



HOME SEARCH DEPOSIT RESEARCH ADVICE ABOUT GALLERY HELP

WHAT Paddle Steamer

RESET QUERY

KEYWORD

SEARCH

[Download results as XML] [Download results as CSV]

171 results (page 1 OF 4)

123...

BROWSE BASIC

ADVANCED MAP

WHAT

- ▶  Event 1
- ▶  Evidence 1
- ▼  Maritime 171
  - ▶  Craft 6
  - ▶  Fishing Vessel 2
  - ▶  Hulk 2
  - ▶  Leisure Craft 6
  - ▶  Naval Support Vessel 9
  - ▶  Paddle Steamer 171
  - ▶  Sailing Vessel [By Form/Type] 9
  - ▶  Service Vessel 19
  - ▶  Transport Vessel 42
  - ▶  Tug 18
  - ▶  Warship 16
- ▶  Monument Types 90

WHERE

- ▶  England 91
- ▶  Scotland 80

WHEN

- ▶  Post Medieval 61

ABER NORTH CHANNEL



National Monuments Record of Scotland

Alternative Name(s): PORTPATRICK; RHINNS OF GALLOWAY; IRISH SEA

ARRAN CASTLE NORTH CHANNEL



National Monuments Record of Scotland

Alternative Name(s): CORSEWALL POINT; PORTPATRICK; IRISH SEA; ARRAN CASTLE

BELLBIRD



National Monuments Record of Scotland

No description

BEN LOMOND NEWHAVEN FIRTH OF FORTH



National Monuments Record of Scotland

Alternative Name(s): NEWHAVEN CHAIN PIER; EDINBURGH; LEITH DOCKS; OUTER FORTH ESTUARY; BENLOMOND

BEN NEVIS I CARSKEY BAY NORTH CHANNEL



National Monuments Record of Scotland

Alternative Name(s): BEN NEVIS; 'ON THE NORTH SIDE OF CARSKEY BAY'

## Area A3, Castleward Phase 2, Derby. Archaeological Post-excavation Assess (OASIS ID: wessexar1-328626)

Wessex Archaeology, 2020

**Introduction**

**Downloads**

**Metadata**

**Usage Statistics**

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**Primary contact**

Wessex Archaeology  
Portway House  
Old Sarum Park  
Salisbury  
SP4 6EB  
UK  
Tel: 01722 326867  
Fax: 01722 337562

**Send e-mail enquiry**

**Resource identifiers**

ADS Collection: 3743  
DOI:<https://doi.org/10.5284/1078327>  
How to cite using this DOI

**Introduction**

Wessex Archaeology was commissioned by Ecus Ltd, on behalf of Lovell Partnerships Ltd, to undertake archaeological mitigation works comprising a strip, map and sample excavation on land off the corner of Carrington Street and Trinity Street, Derby, DE1 2RE. The Site covers 0.079 hectares and is centred on NGR 435835 335640.



The work exposed the remnants of terraced housing comprising foundations, floor surfaces and other structural remains. To the rear of the houses, yard surfaces, outside toilets, drains and garden/property boundary walls were recorded. The housing was built, seemingly as separate blocks, in the mid-19th century and was demolished in the early 1970s. Followin the local roads were widened, impinging on the footprints of the former buildings. Overall arrangement of the exposed remains matches the layout of the Site as portrayed on histo photographs.

The confirmed or likely location of a separate outside toilet could be identified for most of There was no definite evidence that the housing was not provisioned with these when firs possible soakaway, potentially for a more primitive type of sanitary provision such as a pri was found sealed beneath a later toilet in one property, although this interpretation was n and the feature may represent a drain instead.

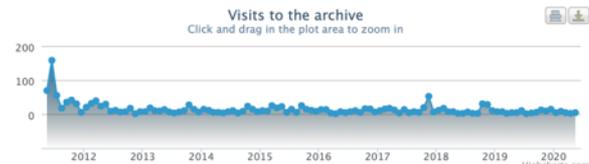
No traces of any cellars were recorded, although it is proposed that these lay beneath the of the houses, which were situated beyond the limits of the Site.

The earliest archaeological deposit seen on the site was mid-19th-century levelling materi generally comprised a dirty yellowish brown sandy clay with fragments of brick/tile, typical thick. This likely represents redeposited natural, either imported to the Site, or arisings fro reduction of high ground within the Site itself.

Asbestos contamination prevented the investigation of the south-western quarter of the site.

The finds assemblage largely represents mid/late 20th-century material and was largely recovered from demolition rubble. No environmental samples were collected.

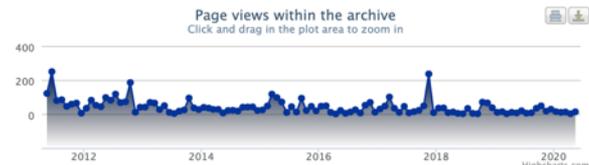
Census data from 1851 to 1911 reveals that the properties were the homes of the skilled working class,



If a visitor comes to the website for the first time, or if they visit a page (or download a file) more than 30 minutes after their last page view, this will be recorded as a new visit. A unique visitor making multiple visits per day will register as several visits.



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.



# Research Value

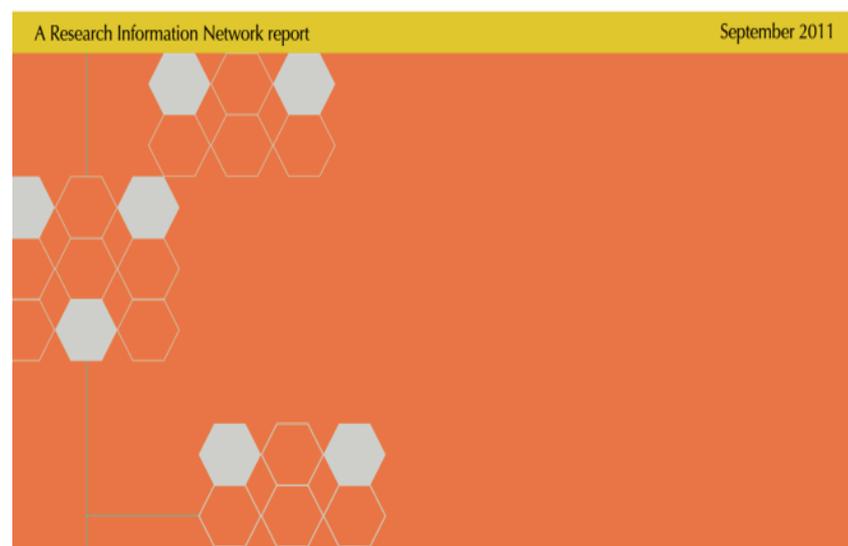
## ADS: % respondents

- 84% - ADS has had an impact on data sharing
- 79% - reduced time required for data access and processing
- 51% - New intellectual opportunities
- 56% - Permitted new types of research
- 94% - Data very or quite important for their research



JISC

Data centres: their use, value and impact



# Economic Impact of ADS

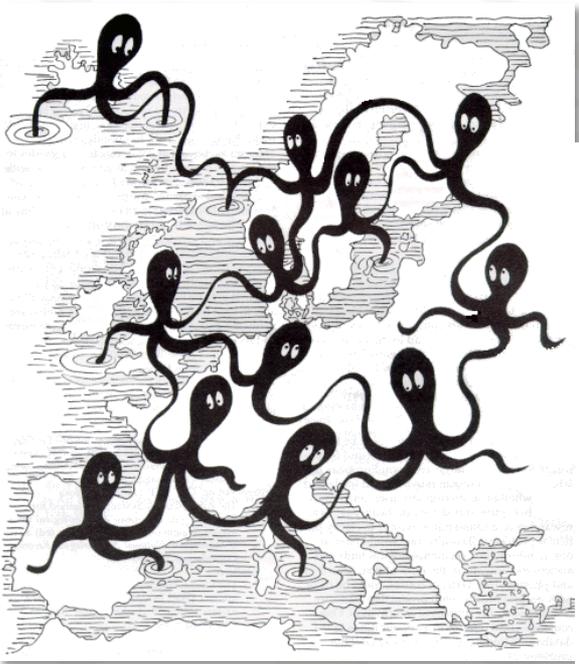
Beagrie/ Houghton 2014:

- 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**



**CENTRE FOR STRATEGIC  
ECONOMIC STUDIES**





Archaeological Records of Europe - Networked Access

ARENA

ADS ARCHAEOLOGY DATA SERVICE DARIAH

QUERY

RESET QUERY SEARCH

QUERY BUILDER

KEYWORD  Add keyword

WHERE

WHAT

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

WHEN

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

ARENA is funded by the Archaeology Data Service | Project introduction

language: en | ro | fr



Transatlantic Archaeology Gateway

TAG

ADS ARCHAEOLOGY DATA SERVICE DARIAH

RESET QUERY SEARCH

KEYWORD  Add keyword

WHERE

WHAT

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

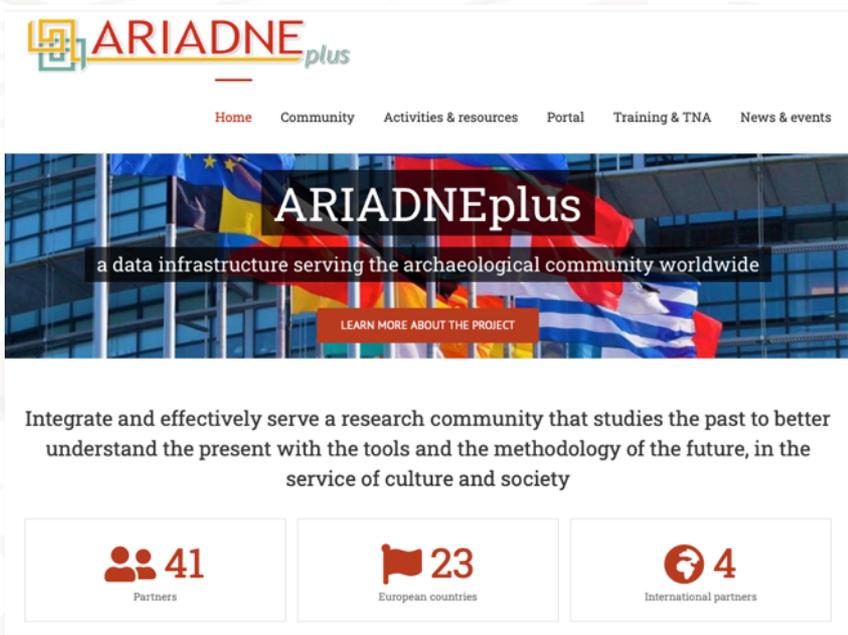
WHEN

From  to  Set date range

TAG is funded by the Archaeology Data Service

JISC

# ARIADNEplus



The screenshot shows the homepage of the ARIADNEplus website. At the top left is the logo, which consists of a stylized grid icon followed by the text "ARIADNEplus". Below the logo is a navigation menu with the following items: Home, Community, Activities & resources, Portal, Training & TNA, and News & events. The main banner features a background image of various national flags and the text "ARIADNEplus" in a large, bold font. Below this, a subtitle reads "a data infrastructure serving the archaeological community worldwide". A button labeled "LEARN MORE ABOUT THE PROJECT" is positioned below the subtitle. A central text block states: "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". At the bottom, there are three statistics boxes: "Partners" with a person icon and the number 41, "European countries" with a flag icon and the number 23, and "International partners" with a globe icon and the number 4.

**ARIADNEplus**

Home Community Activities & resources Portal Training & TNA News & events

**ARIADNEplus**  
a data infrastructure serving the archaeological community worldwide

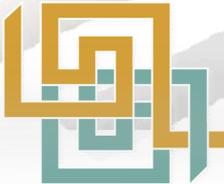
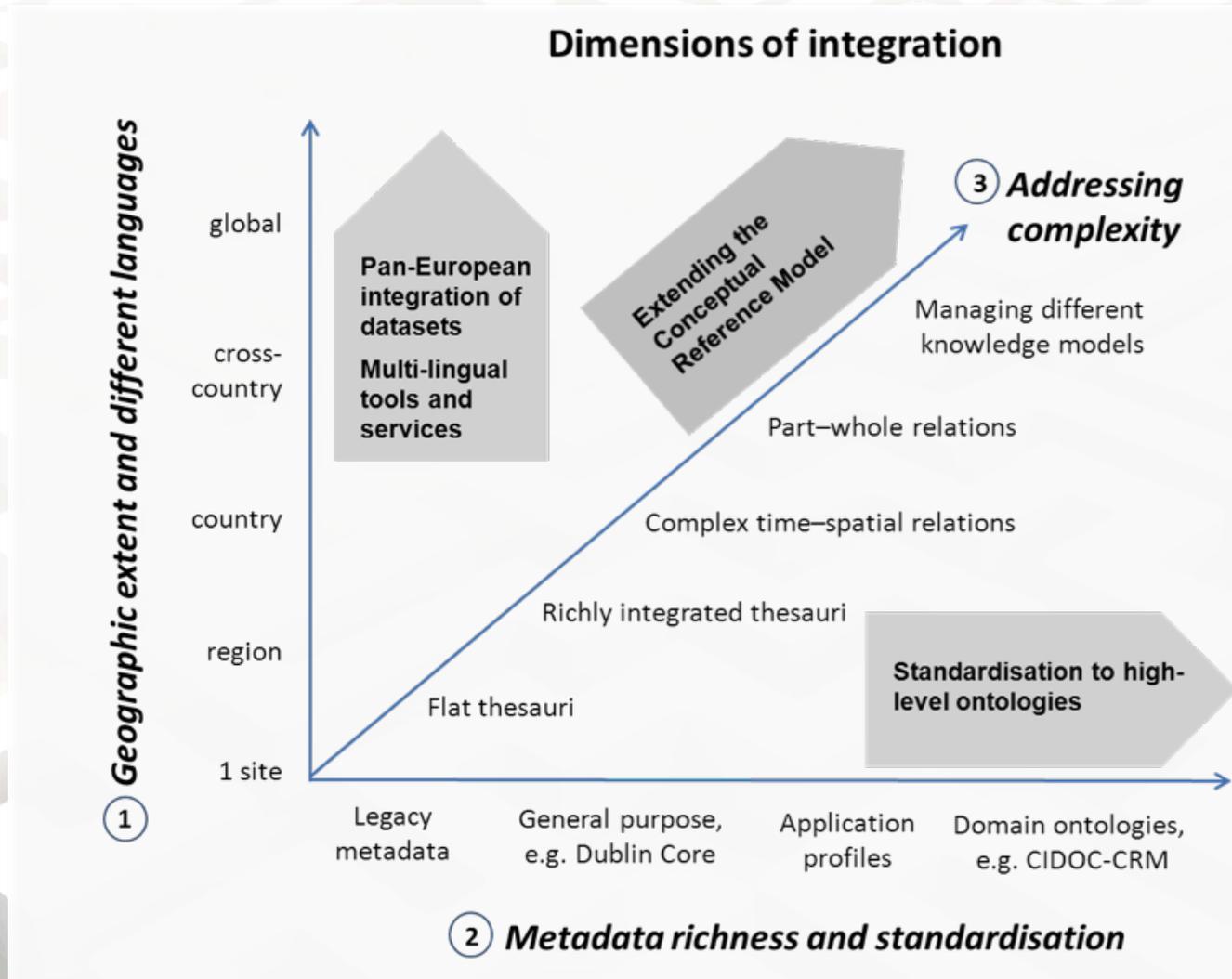
LEARN MORE ABOUT THE PROJECT

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

 <b>41</b> Partners	 <b>23</b> European countries	 <b>4</b> International partners
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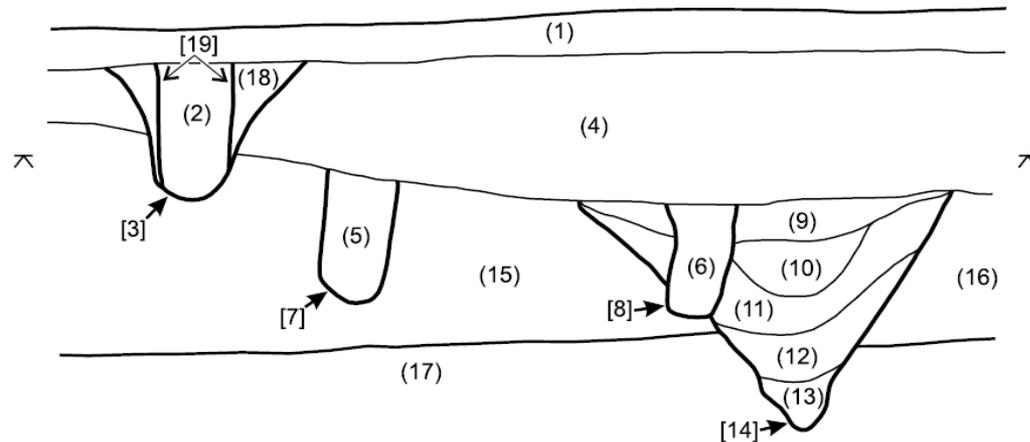


# The ARIADNE roadmap



# Achieving interoperability

- We have datasets in many languages and complying with many different standards
- ARIADNE uses the CIDOC CRM with extensions for archaeology to achieve integration
  - Existing datasets are mapped to the ARIADNE data model
  - WHAT: Subject concepts are mapped to the Getty A&AT
  - WHERE: WGS84
  - WHEN: Perio.do





# ARIADNE Portal

**ARIADNE**

Subject ▾ broo

- penannular brooches / penannular brooches / brooches, penannular / penannular brooch ⓘ
- ring brooches / ring brooches / brooches, annular / brooch, annular / ring brooch/ ... ⓘ
- brooches / brooches / breastpins / broaches / brooch ⓘ

**Welcome**

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

**Browse the Catalog**

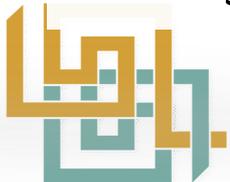
Where When What

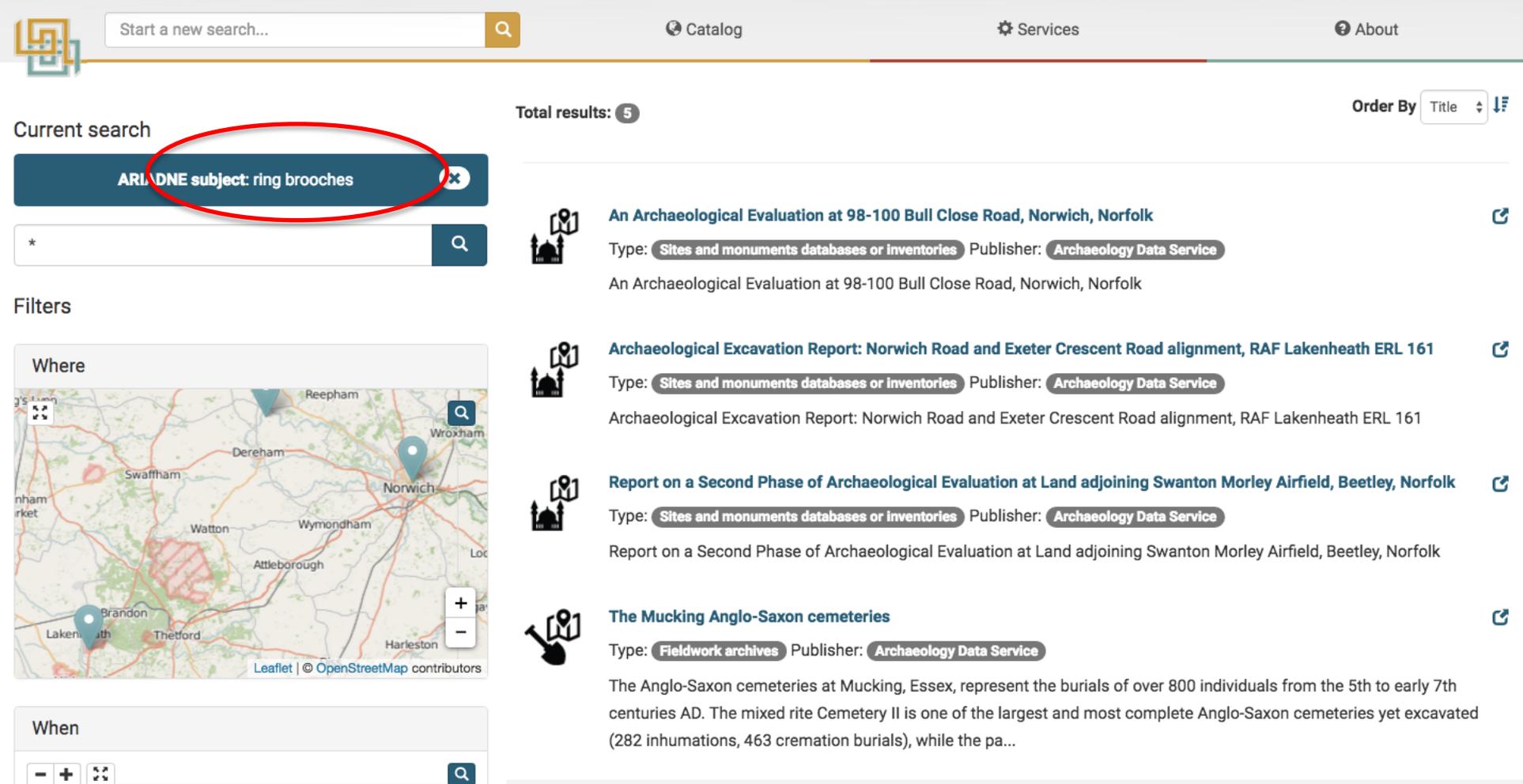
disconnected settlements watercraft

ditches houses cairns

churches (buildings)

- Vocabulary concepts from the Getty Art & Architecture Thesaurus (AAT) are offered as users type a query
  - Enables query expansion
  - Supports multilingualism





The image shows the ARIADNE portal search interface. At the top, there is a search bar with the text "Start a new search..." and a magnifying glass icon. To the right of the search bar are links for "Catalog", "Services", and "About". Below the search bar, the "Current search" section displays "ARIADNE subject: ring brooches" in a dark blue box with a red circle around it. Below this is a search input field with a magnifying glass icon. On the left side, there are filter sections for "Where" and "When". The "Where" filter shows a map of the Norwich area with a red shaded region. The "When" filter has a search icon. On the right side, the search results are displayed. The "Total results" are 5. The results are ordered by "Title". The first result is "An Archaeological Evaluation at 98-100 Bull Close Road, Norwich, Norfolk", published by "Archaeology Data Service". The second result is "Archaeological Excavation Report: Norwich Road and Exeter Crescent Road alignment, RAF Lakenheath ERL 161", also published by "Archaeology Data Service". The third result is "Report on a Second Phase of Archaeological Evaluation at Land adjoining Swanton Morley Airfield, Beetley, Norfolk", published by "Archaeology Data Service". The fourth result is "The Mucking Anglo-Saxon cemeteries", published by "Archaeology Data Service".

Start a new search...

Catalog Services About

Current search

ARIADNE subject: ring brooches

\* [Search]

Filters

Where

When

Total results: 5

Order By Title

**An Archaeological Evaluation at 98-100 Bull Close Road, Norwich, Norfolk**

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

An Archaeological Evaluation at 98-100 Bull Close Road, Norwich, Norfolk

**Archaeological Excavation Report: Norwich Road and Exeter Crescent Road alignment, RAF Lakenheath ERL 161**

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

Archaeological Excavation Report: Norwich Road and Exeter Crescent Road alignment, RAF Lakenheath ERL 161

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

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

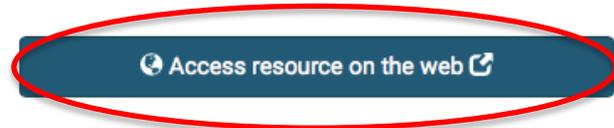
**The Mucking Anglo-Saxon cemeteries**

Type: Fieldwork archives Publisher: Archaeology Data Service

The Anglo-Saxon cemeteries at Mucking, Essex, represent the burials of over 800 individuals from the 5th to early 7th centuries AD. The mixed rite Cemetery II is one of the largest and most complete Anglo-Saxon cemeteries yet excavated (282 inhumations, 463 cremation burials), while the pa...



# Archaeological Excavation Report: Norwich Road and Exeter Crescent Road alignment, RAF Lakenheath ERL 161



Archaeological Excavation Report: Norwich Road and Exeter Crescent Road alignment, RAF Lakenheath ERL 161

- ring brooches
- beads (pierced objects)
- coins (money)
- brooches
- human remains
- knives
- lift latches
- lithics
- rings (object genres)
- rivets
- spearheads
- clasps (fasteners)
- human remains
- ditches
- burials
- pits (earthworks)
- pits (earthworks)

Iron Age Late Iron Age

ERL 161 New Road Layout, RAF Lakenheath

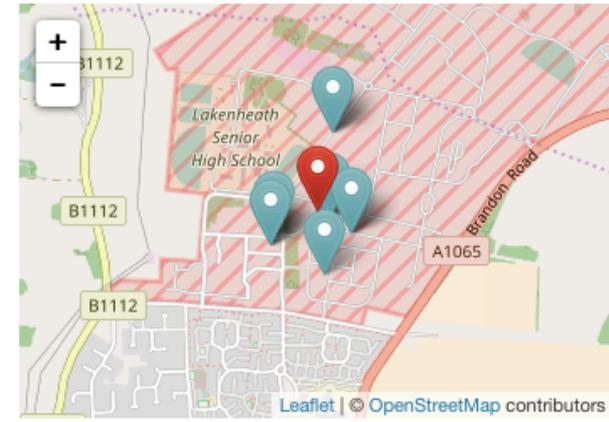
### Metadata

<b>ARIADNE ID</b>	14637038
<b>Original ID</b>	1946180
<b>Language</b>	English
<b>Resource type</b>	Sites and monuments databases or inventories
<b>Subject</b>	<ul style="list-style-type: none"> <li>ring brooches</li> <li>beads (pierced objects)</li> <li>coins (money)</li> <li>brooches</li> <li>human remains</li> <li>knives</li> <li>lift latches</li> <li>lithics</li> <li>rings (object genres)</li> <li>rivets</li> <li>spearheads</li> <li>clasps (fasteners)</li> </ul>

### Resource is part of

ArchSearch: ADS catalogue

### Geographically similar



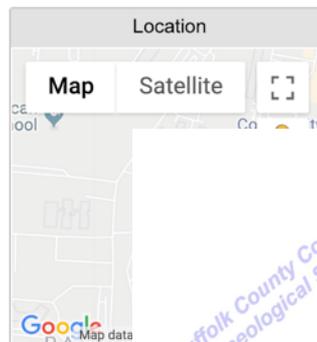
### Thematically similar

- Archaeological Excavation Report: Norwich Road and Exeter Crescent Road alignment, RAF Lakenheath ERL 161
- The Mucking Anglo-Saxon cemeteries
- Saltwood Tunnel, Kent - Integrated Site Report
- Wasperton Anglo-Saxon Cemetery

Library Home > Browse Series > Series > Report (in Series)

**Caruth, J., (2009). *Archaeological Excavation Report: Norwich Road and Exeter Crescent Road alignment, RAF Lakenheath ERL 161*. Ipswich: Suffolk County Council Archaeological Service.**

<b>i</b> Title:	Archaeological Excavation Report: Norwich Road and Exeter Crescent Road alignment, RAF Lakenheath ERL 161
<b>i</b> Series:	Suffolk County Council Archaeological Service unpublished report series
<b>i</b> Downloads:	<a href="#">suffolk1_2009_1.pdf (6 MB)</a> <b>Download</b>
<b>i</b> DOI	<a href="https://doi.org/10.5284/1004825">https://doi.org/10.5284/1004825</a>
<b>i</b> Publication Type:	Report (in Series)
<b>i</b> Abstract:	An archaeological excavation was carried out in advance of the realignment of the junction of Norwich and Plymouth Roads and Exeter Crescent at RAF Lakenheath, which lies close to an area from where 267 Anglo-Saxon burials were found in 1997. The work was carried out in stages in order to minimise disruption to the traffic flow between April 2007 and August 2008. Three Anglo-Saxon burials were identified during the final stages of the work linking the existing Norwich Road into the new road, two of which were new discoveries and one of which was the second half of a burial found during pipelaying works in 2002...
<b>i</b> Author:	<b>J Caruth</b>
<b>i</b> Publisher:	<b>Suffolk County Council Archaeological Service</b>
<b>i</b> Other Person/Org:	<b>Historic England (OASIS Reviewer)</b> <b>Suffolk HER (OASIS Reviewer)</b>
<b>i</b> Year of Publication:	2009
<b>i</b> Locations:	Site: ERL 161 New Road Layout, RAF Lakenheath Parish: ERISWELL District: FOREST HEATH County: SUFFOLK Country: England Grid Reference: 572860, 280320 (Easting, Northing)
<b>i</b> Find:	Annular Brooch Early Medieval



## ARCHAEOLOGICAL EXCAVATION REPORT

SCCAS REPORT No. 2009/125

# Norwich Road and Exeter Crescent Road realignment, RAF Lakenheath ERL 161



Start a new search...  [Catalog](#)

## ring brooches

**Getty AAT ID** 300263352

**Note** Brooches in the shape of a ring, with a movable pin that may extend beyond the diameter of the ring; usually of metal and often ornamented. Used to fasten costume and worn especially during the Medieval period in Europe.

**URI** <http://vocab.getty.edu/aat/300263352>

**Broader**  brooches

### Terms

**English** [ring brooches](#) [brooches, annular](#) [brooch, annular](#) [ring brooch](#) [annular brooches](#) [annular brooch](#) [brooches, ring](#) [ring-brooch](#)  
[brooch, ring](#) [ring-brooches](#)

**Spanish** [broches](#) [ring brooch](#) [broche](#)

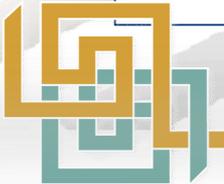
**Dutch** [ringbroches](#) [ringbroche](#)

### Provider mapping

ANNULAR BROOCH

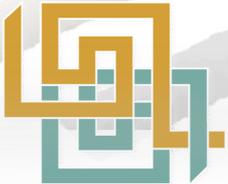
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**Source URI** [http://purl.org/heritagedata/schemes/mda\\_obj/concepts/97114](http://purl.org/heritagedata/schemes/mda_obj/concepts/97114)

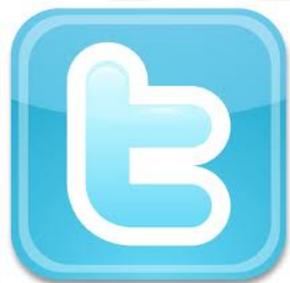


# In summary...

- Nearly 30 years of making heritage data FAIR...
- Still a long way to go
- Importance of data standards and ontologies
- Value of good metadata
- Need for community and international efforts
- Need for collaboration between domain and IT specialists
- What is missing in the metadata to better support re-use?



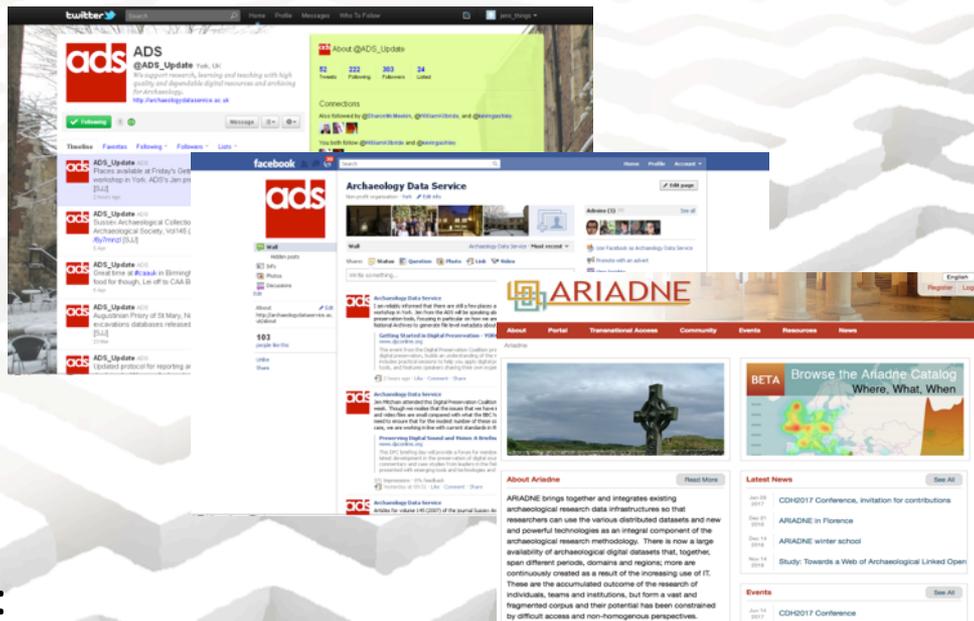
## Thank-you for listening



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E-mail: [julian.richards@york.ac.uk](mailto:julian.richards@york.ac.uk)

Website: <http://archaeologydataservice.ac.uk/>

ARIADNE portal: <http://portal.ariadne-infrastructure.eu>