Long-term Data Preservation and Re-use: the work of the Archaeology Data Service

Professor Julian D Richards Archaeology Data Service University of York



Outline

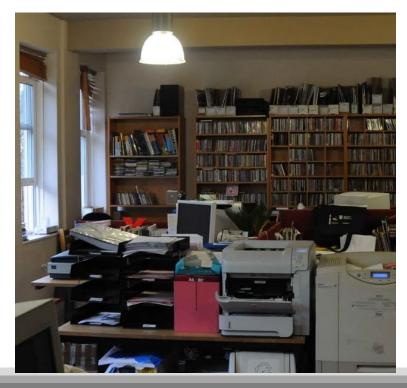


- Challenges:
 - Digital Preservation
 - Resource Discovery and Interoperability finding & joining up fragmented and diverse data sets
 - Political (& Economic) Context Open Data
- Opportunities:
 - Digital dissemination & electronic publication
- The UK Archaeology Data Service & *Internet Archaeology*
- Europe: ARIADNE e-infrastructure



Digital Data Challenges

- Digital data are as fragile as the archaeological record we excavate
- They are still archived as objects rather than computerised information

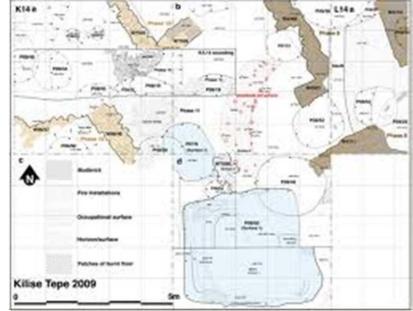


The Preservation and Re-use of Archaeological Data

Digital Data and Archaeology

- Published data are limited
- Majority of data recorded in grey literature
- Data are not easily searchable
- Assess to data is difficult





http://archaeologydataservice.ac.uk



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."



The Five Principles

Policy paper G8 Open Data Charter and Technical Annex

Published 18 June 2013

- 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



The Archaeology Data Service

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



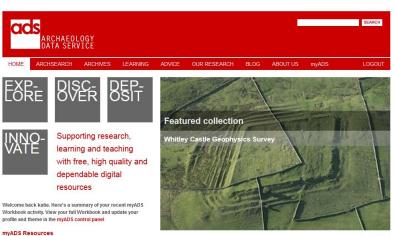


acs BARGH SENCE Preservation and Re-use of Archaeological Data

The Archaeology Data Service

"Supporting research, learning and teaching with free, high quality and dependable digital resources"

- Collects and preserves datasets
- Provides easy and free access to datasets
- Provides guidance and support to data creators



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April 2013: Internet Archaeology publishes full journal issue on metal-detecting

ADS's associate journal internet Archaeology, the premier international e-journal for archaeology, has just published a full issue dedicated to metal-detecting. Edited by Stuart Campbell and Suzie Thomas, issue 33 is entitled Portable Antiquities: archaeology, collecting, metal detecting and includes articles from a variety of authors, including voices from the international coin collecting and...more

March 2013: Archaeological and cultural heritage investigations on the site of the London 2012 Olympic and Paralympic Games

The Archaeology Data Service is happy to announce the release of the 'Archaeological and cultural heritage investigations on the site of the London 2012 Olympic and Descharging Compared articles in Uklacease technology. The comparement in Ukla 2005 the

March 2013: Five new archives added to Southampton's Designated Archaeology Collections Programme The Archaeology Data Service and Southampton Arts and Heritage are pleased to announce that the new archives have been added to Southamptors Designated Archaeology Collections Programme. Southampton Arts and Heritage is the final recipient of all archives generated by archaeological feldwork within the Southampton db poundary. Its role is to store and care for the objects and the paper, pho... more



and Server and Re-use of Archaeological Data

Guides to Good Practice

- GIS
- CAD
- Geophysics
- AP and Remote Sensing
- Excavation and Fieldwork
- Virtual Reality





Archaeology Data Service / Digital Antiquity Guides to Good Practice

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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 e 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 roject, 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



15/05/2019

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Welcome to the new ADS website. There are a number of new features of the website that will make it easier and more enjoyable to use. Please read the 'About' this site section for more details. This site works best with the Firefox, Chrome and Safari browsers. Why not register as a myADS user to take full advantage of the additional features. On registration these personal myADS features become available.

Workbook

Using the tools at the bottom of each page save your favourite resources and regular searches in the myADS Workbook.

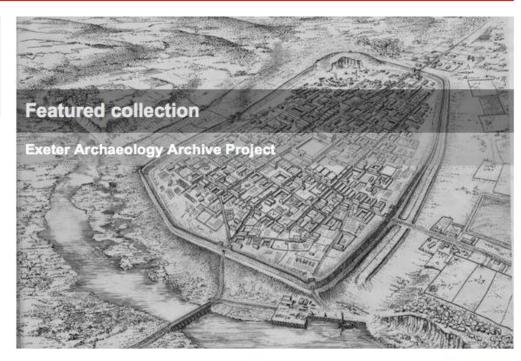
History

Your recent exploration of the site and the archives is automatically saved in your myADS History.

Additional services

Registered ADS users can take advantage of a number of additional myADS services, such as tailored email alerts and download of

configurable results sets.



March 2016: Call for Papers - Preservation and Re-Use of Digital Archaeological Research Data with Open Archival Information Systems

The ADS, IANUS, and DANS are pleased to invite submissions for the CHNT session on the preservation and re-use of data in Archaeology. This session will focus on the services and duties of existing repositories and archives and the implementation of the OAIS model within their day-to-day business of data curation, preservation and dissemination. Talks will address different aspects of how to pres... more



February 2016: A Unique Engraved Shale Pendant from the Site of Star Carr

Internet Archaeology is pleased to announce the publication of A Unique Engraved Shale Pendant from the Site of Star Carr: the oldest Mesolithic art in Britain by Nicky Milner et al. The artwork on the pendant is the earliest known Mesolithic art in Britain; the barbed line motif is comparable to styles on the Continent, particularly in Denmark. When it was first uncovered the lines were barely v... more





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The Rural Settlement of Roman Britain: an online resource

Martyn Allen, Nathan Blick, Tom Brindle, Tim Evans, Michael Fulford, Neil Holbrook, Julian D Richards, Alex Smith, 2015

Introduction Query Map Metadata Usage Statistics Feedback questionnaire

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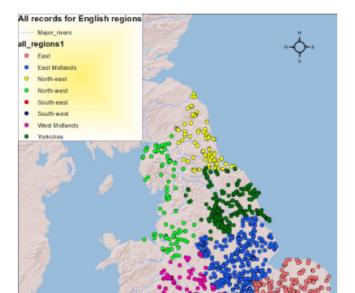
Primary contact Prof Michael Fulford Professor of Archaeology School of Archaeology, Geography and Environmental Science University of Reading Whiteknights PO Box 218 Reading RG6 6AA

Introduction

This resource brings together the excavated evidence for the rural settlement of Roman Britain with the overarching aim to inform a comprehensive reassessment of the countryside of Roman Britain. It includes both traditionally published reports and 'grey literature' reports from developer-funded excavations since 1990.

The project arose from pilot projects undertaken by Cotswold Archaeology¹ and funded by Historic England and it began in 2012. It is funded by grants from the Leverhulme Trust to the Universities of Reading and York (ADS)² and from Historic England to Cotswold Archaeology.³

Phase 1 (April 2015) publishes the settlement evidence from Roman England. Subsequent phases will add Roman Wales (by December 2015) and the related finds, environmental and burial data (by 1st April 2017). These will be used alongside the specific site data in a series of integrative studies on rural settlement, economy, people and ritual to be published by the Society for the Promotion of Roman Studies as Britannia Monographs between 2016 and 2018.





Council for British Research in the Levant Archaeological Monographs Council for British Research in the Levant, 2015 (updated 2016)

Monographs Usage Statistics Metadata

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Primary contact Council for British Research in the Levant CBRL London 10 Carlton House Terrace London SW1Y 5AH

Introduction

The Council for British Research in the Levant (CBRL) is an independent, not-for-profit organisation that conducts, supports and promotes research in the history, culture, society and archaeology of Jordan, Israel, the Occupied Palestinian Territories, Syria, Lebanon and Cyprus. Registered as a charity in 1998 following the merger of the British Institute at Amman for Archaeology and History and the British School of Archaeology at Jerusalem, the CBRL broadened its remit to support all the disciplines supported by the British Academy. This led to a period of organic growth and the CBRL now has an administrative office in London and two research institutes in the region: the



CBRL Kenyon Institute (KI) in East Jerusalem and the CBRL British Institute in Amman (BIA).

CBRL Publications

The CBRL publishes a peer-reviewed international journal, Levant, which deals with the history and archaeology of the region (http://www.maneyonline.com/loi/lev). The launch of a new journal, Contemporary Levant, is imminent and this will cover the recent past and present-day issues. In addition, the CBRL publishes monographs in the Levant Supplementary Series.

The Levant Supplementary Series is designed to present significant new contributions to the study of the humanities and social sciences, as relevant to the countries of the Levant; these have traditionally been published as hard-copy volumes. However, in line with our policy of seeking to promote the widest possible access to our research, we are making all existing volumes available in pdf format on a free-to-download, open access basis, three-years after the date of their initial publication. It is our intention that from 2016, all CBRL monographs will be published in digital format, and made freely downloadable from the ADS website.

List of Monographs Order by: Title | Date

Clarke, J. (2005)



Ipswich 1974-1990 Excavation Archive

Suffolk County Council Archaeological Service, 2015

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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 lpswich 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 otherwise stated

ENGLISH HERITAGE

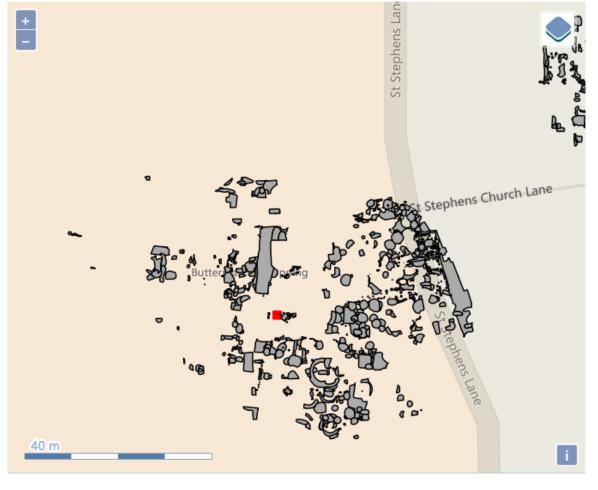
Primary contact Suffolk County Council Archaeological Service 9-10 Churchyard Bury St Edmunds Ipswich IP33 1RX

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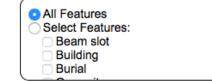
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Prehistoric
 Romano-British
 Saxon (c.600-1000)
 Early Middle Saxon (c.600-700)
 Middle Saxon (c.700-850)
 Early Late Saxon (c.850-900)



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GREY LITERATURE

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.



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Primary contact Archaeology Data Service King's Manor Exhibition Square York YO1 7EP England Tel: 🔣 🗸 01904 323954 🔇 Fax: 01904 323939



Resource identifiers doi:10.5284/1000746 How to cite using this DOI Details of Document **Bibliographic Reference and files**

Blythe, K. (2005) 'The Limes, Ribchester', 2004-5/334. Oxford Archaeology North: Lancaster

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	oxfordar2-35728_1.pdf	PDF	1013 Kb	
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Site details

Location	
Site name	The Limes, Ribchester
Parish	RIBCHESTER
District	RIBBLE VALLEY
County	LANCASHIRE
Country	ENGLAND
Grid reference	SD 65861 35410 (point)

Monuments and Finds

Other details

Description A4 Document Associated identifier oxfordar2-35728





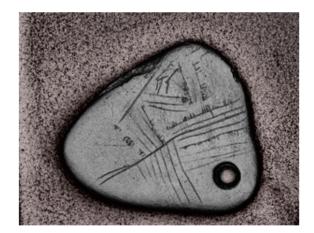
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<u>Archaeology Data Service</u>. Internet Archaeology has been awarded the <u>Directory of Open Access Journals Seal</u> in recognition of our high standards in publishing best practice, preservation and openness.

A Unique Engraved Shale Pendant from the Site of Star Carr: the oldest Mesolithic art in Britain



Altmetric 127

18

Nicky Milner¹, Michael Bamforth¹, Gareth Beale¹, Julian C. Carty¹, Konstantinos Chatzipanagis², Shannon Croft¹, Chantal Conneller³, Ben Elliott¹, Laura C. Fitton⁴, Becky Knight¹, Roland Kröger², Aimée Little¹, Andy Needham¹, Harry K. Robson¹, Charlotte C.A. Rowley¹, Barry Taylor⁵

1. Department of Archaeology, The King's Manor, University of York, YO1 7EP, UK

- 2. Department of Physics, University of York, Heslington, York, YO10 5DD, UK
- 3. Archaeology (SALC), University of Manchester, Mansfield Cooper Building, Oxford Road, Manchester M13 9PL, UK
- 4. Centre for Anatomical and Human Sciences, Hull York Medical School, University of York, York, YO10 5DD, UK
- 5. Department of History and Archaeology, University of Chester, Chester, CH1 4BJ, UK

Corresponding author: nicky.milner@york.ac.uk

http://orcid.org/0000-0001-6391-9127

Cite this as: Milner, N. *et al.* (2016). A Unique Engraved Shale Pendant from the Site of Star Carr: the oldest Mesolithic art in Britain, Internet Archaeology 40. http://dx.doi.org/10.11141/ia.40.8

Summary

11

In 2015 an engraved shale pendant was found during excavations at the Early Mesolithic site of Star Carr, UK. Engraved motifs on Mesolithic pendants are extremely rare, with the exception of amber pendants from southern Scandinavia. The artwork on the pendant is the earliest known Mesolithic art in Britain; the 'barbed line' motif is comparable to styles on the Continent, particularly in Denmark. When it was first uncovered the lines were barely visible but using a range of digital imaging techniques it has been possible to examine them in detail and determine the





Star Carr Archives Project

Nicky Milner, Hayley Saul, Ben Elliott, 2013

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Primary contact Prof Nicky Milner Department of Archaeology University of York King's Manor

Introduction

Star Carr is an internationally renowned, Early Mesolithic site in the Vale of Pickering, North Yorkshire. It was first discovered by a local amateur archaeologist, John Moore, but became known worldwide after the excavations of Professor Grahame Clark, 1949-1951, due to the well preserved, rare artefacts which were uncovered. More recent excavations by the Vale of Pickering Research Trust (in the 1980s and since 2004), have led to further important discoveries such as a timber platform (the earliest evidence of carpentry in Europe) and a structure (the earliest known "house" in Britain).



One of the biggest stumbling blocks to conducting further research is access to the archive from the earlier excavations. Moore's paper archive is missing. There is no known paper archive from Clark's excavations and it is thought that all records must have been destroyed once the monograph (Clark 1954) had been published. The only surviving records are some of the photographic slides which are held in the Museum of Archaeology and Anthropology, Cambridge (MAA) and a small number held by Scarborough Archaeology and Historical Society. In addition, Clark's excavated assemblage has been dispersed across many museums and there is no over-arching catalogue. The paper archive for the Vale of Pickering Research



making the LEAP: linking electronic archives and publications



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Whittlewood

TAESP Silchester

Merv.



The aim of the project is to investigate novel ways in which electronic publication over the Internet can provide broad access to research findings in the arts and humanities, and can also make underlying data available in such a way so that readers are enabled to 'drill down' seamlessly into online archives to test interpretations and develop their own conclusions.



Winner of the British Archaeological Awards - Best Archaeological Innovation 2008.

Highly Commended in The Association of Learned and Professional Society Publishers Awards - Publishing Innovation 2009.

"Making the LEAP" is funded by the Arts and Humanities Research Council (AHRC) under the ICT

Strategy Programme.



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The Urban Landscapes of Ancient Merv, Turkmenistan Tim Williams, Sjoerd van der Linde, 2008

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Primary contact Dr Tim Williams Institute of Archaeology University College London Gower Street London WC1E 6BT UK

Resource identifiers

ADS Collection: 489 doi:10.5284/1000164



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Introduction

Ancient Merv, in Turkmenistan, is one of the most complex and well-preserved urban centres on the Silk Roads of Central Asia. A succession of major cities at Merv started in the 6th century BC and continued until the Mongol sack of 1221AD, although Mongol occupation, a resurgent Timurid city of the 15th century, and expansion in the 19th century continues the urban sequence. Together the walled urban areas covered more than 1000 ha.

The Institute of Archaeology, University College London, has had a long collaboration with the Turkmenistan Ministry of Culture, focused on archaeological research and approaches to the conservation and management of the Ancient Merv Archaeological Park, which since 1999 has been a World Heritage Site.

The collection of monument photographs (dating from 1890 onwards) was first compiled by Georgina Herrmann, former director of the International Mery Project. who published some of them in 'Monuments'



of Mery. Traditional Buildings of the Karakum¹. In 2002 an expanded version of the photographic collection was published in 'The Monuments of Merv - A scanned archive of photographs and plans'2, which included a CD-ROM with low resolution digital versions of the photographs. Since 2001 the Ancient Merv Project has added new images of the monuments, showing their current condition and conservation work, and more detailed metadata for the photographs has been assembled. More information on the Ancient Merv Project can be found at the UCL website.

This digital archive was undertaken in conjunction with an electronic publication through the Linking Electronic Archives and Publications (LEAP) project. The corresponding article is 'The urban landscapes of Ancient Merv, Turkmenistan: Where to draw the line?' by Tim Williams & Sjoerd van der Linde, which can be found in Internet Archaeology 25.

Herrmann, G. 1999, Monuments of Merv. Traditional Buildings of the Karakum, London: Society of Antiquaries Londor

² Hermann, G. Coffey H., Laidlaw S. and K. Kurbansakhatov 2002. The Monuments of Merv - A scanned archive of photographs and plans. London: University College London and British Institute of Persian Studie:

The landscapes of Islamic Merv, Turkmenistan: Where to draw the line?

Tim Williams

Institute of Archaeology, University College London, 31-34 Gordon Square, LondonWC1H 0PY. Email: tim.d.williams@ucl.ac.uk

Summary

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This article outlines approaches for interpreting the Islamic city of Sultan Kala (Merv), c. 8th-13th centuries AD, based upon aerial photographic and satellite imagery. Hierarchies of assumptions (identification of individual wall lines; which frame spaces, rooms and courtyards; which are grouped as parts of specific buildings; which are part of urban blocks) and ontologies (information about these assumptions and the variable confidence of interpretation, from the position of lines to spatial function) provide a dynamic structure for the presentation of data. interpretation and theory.

The article establishes procedures and protocols within two sample areas (selected to represent the diverse features of the urban and suburban landscapes) to:

- Explore the theory and methodology of documenting interpretation (and uncertainty) in the transcription of aerial photographic and satellite imagery Develop ontological approaches to
- structuring interpretations and assumptions, within a hermeneutic model.
- Provide a textual and graphic narrative of the development of the areas.
- Establish an online forum (weblog) to contribute to the long-term project.
- Explore the use of other forms of electronic archive material, in particular, how imagery and audio files can be used to develop the discussion of landscapes and buildings.



Arts & Humanities Research Council

reparation of this electronic publication and associated archive was assisted by a grant from the AHRC under the ICT Strategy programme.

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Features

This article will appeal to: those interested in the presentation of data, interpretation and theory Keywords: Merv; Silk Route; Turkmenistan; interpretation; uncertainty; aerial photographs; satellite Find more publications on the Silk Route in the British and Irish Archaeological Bibliography (BIAB)

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Image files | GIS files | Documents | Movies | Oral Interviews

comparison of quality and processing employed.

The Urban Landscapes of Ancient Merv, Turkmenistan

Tim Williams, Sjoerd van der Linde, 2008

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Primary contact

Institute of Archaeology

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WC1E 6BT

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GIS files Documentation:



Raster and World Files:

GIS Layers

Downloads

The raster images here are very large and may take a considerable time to download for some users with slower internet connections. Use the preview of the image on the left to see the quality and processing effects to determine if the image is desired before downloading. The complete TIFF and World File are zipped up and can be downloaded by clicking on the ZIP box on the right. Information on the images and the processing used can also be found in the 'GIS Layers' documentation above.

PDF

71 Kb

This section contains the shapefiles and aerial photos of the GIS as well as documentation. The aerial

photos are very large so previews have been provided of a common area of the images to offer a

PREVIEW	AP Dom-Joined and enhanced	ZIP	80 Mb
PREVIEW	ikonos	ZIP	45 Mb
PREVIEW	AP Cerl-Joined	ZIP	64 Mb
PREVIEW	Russian map	ZIP	4 Mb
PREVIEW	AP Dom Joined	ZIP	86 Mb
A Dame	AP Ceri-cut contrasted	ZIP	25 Mb

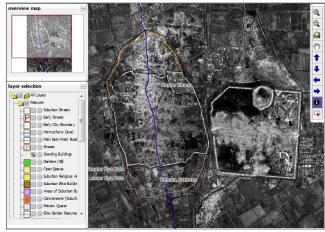
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3. A short introduction to the city of Sultan Kala

With the coming of Islam, in the 7th century AD, Merv became the capital of Khurasan (the 'eastern land') (for an overview of the history see Kennedy 1999: Williams forthcoming). In the 740s the 'Abbasid revolution began here, and while Baghdad was established as the capital of the new empire, Merv's status grew, as the capital of Khurasan, from east of the Great Desert to the frontiers of India. In the same decade, the governor, Abu Muslim, commissioned a mosque to be built alongside the Madjan Canal, which flowed about a kilometre to the west of the old city of Gyaur Kala. Thus began the new city of Marv al-Shahijan (Merv the great: today Sultan Kala) (Fig. 7 - opens GIS). It is tempting to see the mosque as part of the planning for the heart of the new city, and by the 9th century it lay at the centre of a thriving metropolis. The city was planned, with a street system and a carefully managed water supply with numerous canals and reservoirs in each district (Williams forthcoming). It seems likely that the new status of Merv, coupled with new ideas and beliefs that identified the need for public

Figure 6: A short introductory film about Merv





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Heathrow Terminal 5 Excavation Archive (Data Paper) Altmetric 0 ٠

Data Papers

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Framework Archaeology (comp Re-use potential

Wessex Archaeology, Portway House, Old Sarum Par	The dataset was constructed with two main appro	paches to re-use in mind:
Cite this as: Framework Archaeology (2014). Heath http://dx.doi.org/10.11141/ia.36.8	 Supportive: in that it provides the detailed r 	aw data to support both the interpretations arrived at by
http://dx.doi.org/10.11141/18.30.0		wishing to re-interpret the history of the landscape at
Dataset Location	Heathrow.	
The dataset has been deposited with the A	 Comparative: as far as possible Framework a 	Archaeology attempts to structure all its digital archives
Referee	identically so that data from Heathrow (Frai recovered from Stansted (Framework Archa	
Referee statement by Nicholas J. Cooper	possible allows the data to be re-worked to	Referee Statement
Dataset Content	comparisons with data derived from organis	Nicholas J. Cooper, University of Leicester Archaeological Services LE
	For the purposes of the archive it has been assu	

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For the purposes of the archive it has been assur The digital archive for excavations at Heat necessary to reconstruct a working geogra As a result the archaeological stratigraphy has be of everytion on the project from 1 into the GIS shapefiles as described in the Strati phase



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Introduction

Framework Archaeology is a Joint Venture agreement between Archaeology (WA) to provide archaeological services to BAA. G projects, the joint venture enables Framework Archaeology to d WA, including site staff, specialist managers, administrative sup combination of resources (totalling over 300 staff) considerably provides Framework Archaeology with a wider skills base.

Framework Archaeology is committed to a particular archaeological philosophy developed by BAA's archaeological consultants, Gill Andrews and John Barrett, This is concerned with understanding how people inhabited past landscapes: archaeology as a study of people rather than deposits or objects. This approach is at the heart of the Archaeological Policy adopted by the BAA Main Board. Framework projects are thus academically driven but undertaken within a commercial environment. In order to fulfil the approach a Framework Archaeology recording system has been

LE1 7RH

Cite this as: Cooper, N.J. 'Referee Statement' in Framework Archaeology (2014). Heathrow Terminal 5 Excavation Archive (Data Paper). Internet Archaeology, (36). http://dx.doi.org/10.11141/ia.36.8

This data paper flags up the publication of the third level of information relating to the Terminal 5 excavations undertaken by Framework Archaeology at Heathrow and joins their other major archived projects at Stansted. The publication of the full digital archive provides an opportunity to explore the entire and updated record of the excavations that was previously only partially available on the Free Viewer CDs accompanying the two published site narrative volumes in 2006 and 2010.

Framework Archaeology was founded on the principle of undertaking 'academically-driven projects within the commercial environment' which place the previous inhabitants at the heart of the story; ditches did not continue in an easterly direction on their own but, instead, were dug by people who, as a community, made choices about living in a landscape, which consequently evolved around them over time. The mechanism driving this principle was to develop a hand-held on-site recording system that would allow interpretation to evolve in an informed way during the excavation itself and right through the postexcavation phase. At the heart of the digital archive is therefore a GIS package accompanied by stratigraphic, finds and environmental datasets, allowing the user to reconstruct the excavation of the site and potentially re-interpret it. Considerable time has therefore been devoted to making the system work effectively and this greatly enhances its usability.



developed and is now in operation on all Framework Projects. It places great emphasis on interpretation in addition to recording, and developing a historical narrative as the site is excavated (Andrews, Barrett & Lewis 2000).

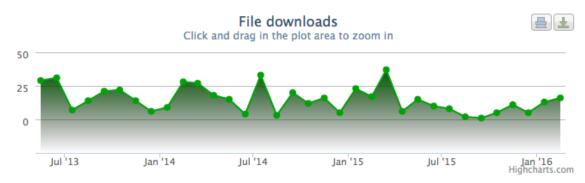


Primary contact Prof Nicky Milner Department of Archaeology University of York King's Manor Exhibition Square York YO1 7EP England Tel: 01904 323940 Fax: 01904 323902

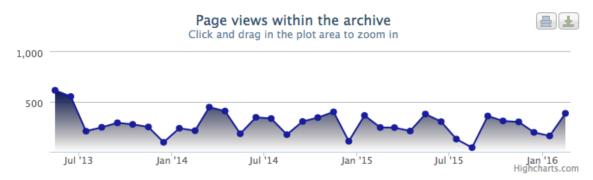
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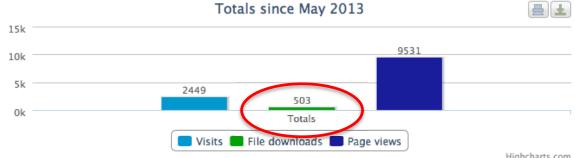
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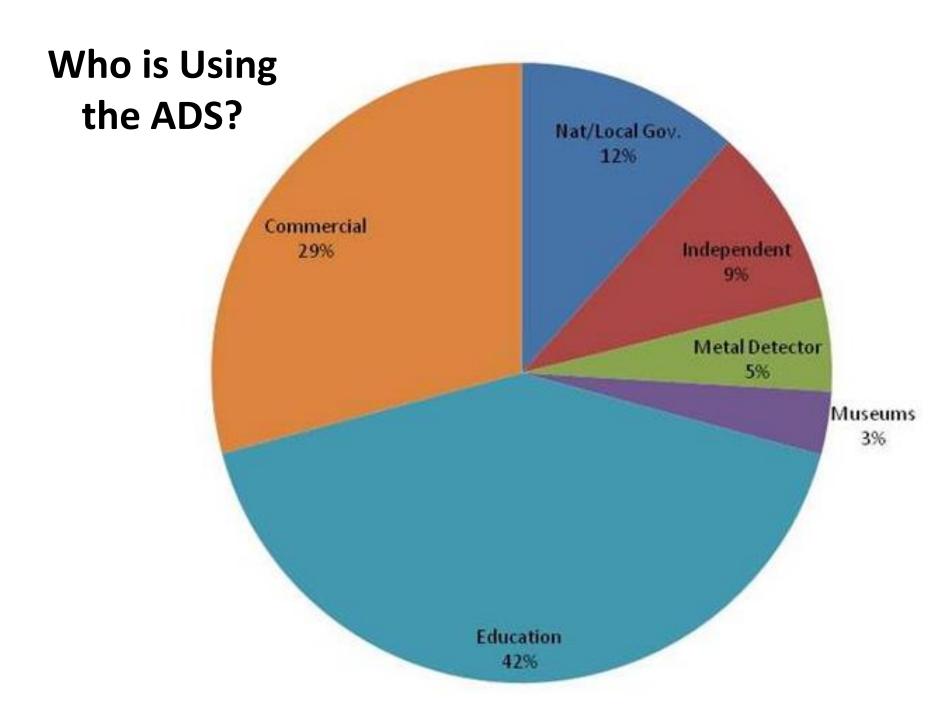


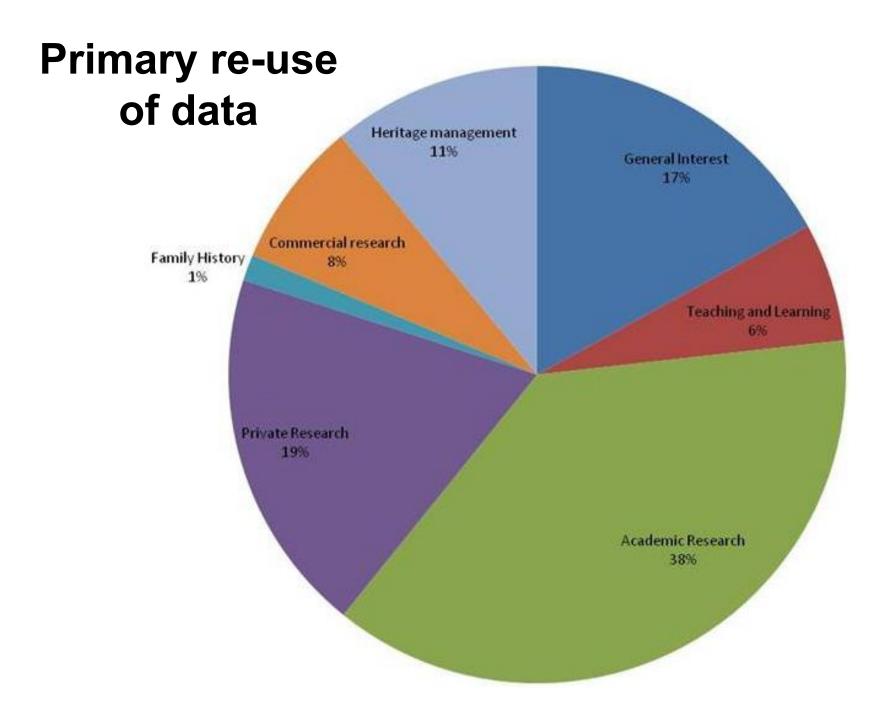
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Highcharts.com

Statistics start from May 2013 but if the values are zero to start with they are not shown. Zero values after the start of use for the archive are shown.

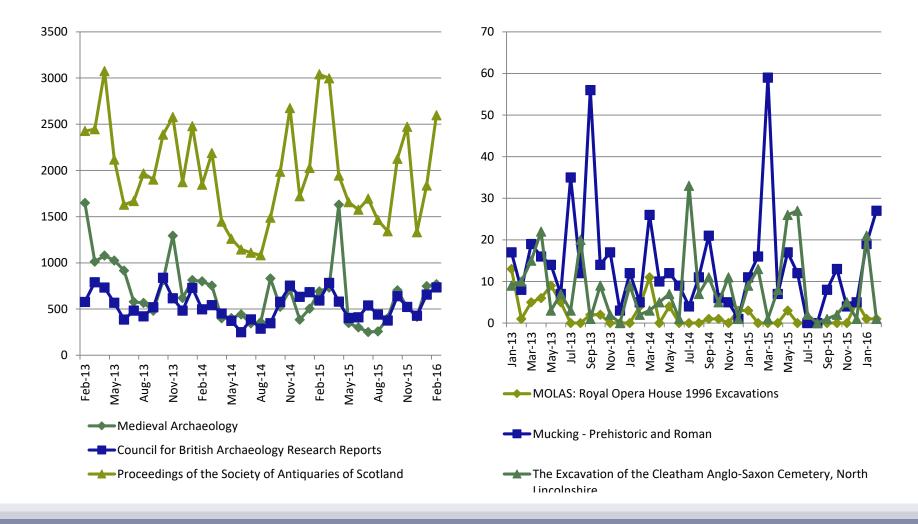






15/05/2019

ADS Downloads: papers vs data sets



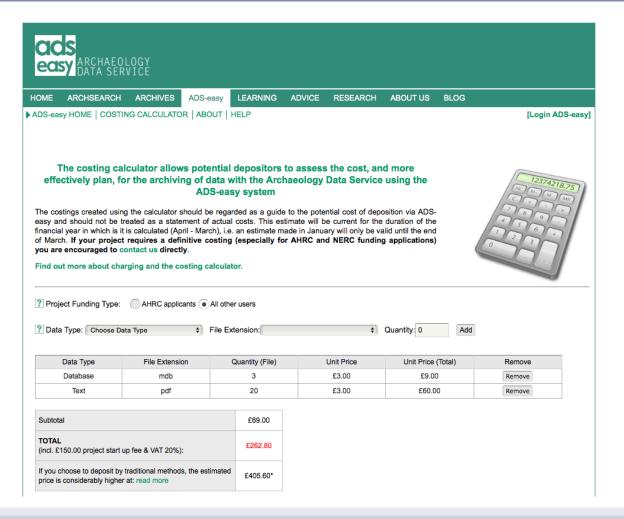


Data Re-Use

- Data collection is expensive!
 - Fowler: estimated only able to take account of 5% of information gained in last 20 years
 - Bradley: British & Irish Prehistory 3 person years
 - Richards: Viking and Anglo-Saxon Landscape and Economy Project – using Portable Antiquities Scheme data – 2 person years of data cleaning
 - Fulford: Roman Rural Settlement project 6 person years of data collection



Data Preservation has a cost too





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

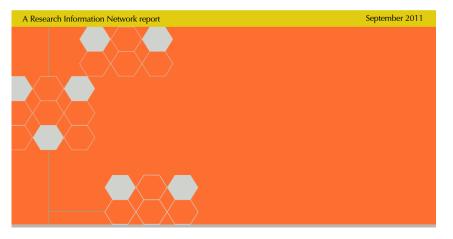


Figure 16: Impact on culture of data sharing, by data centre

	ADS	BADC	CDS	ESDS	NGDC
To a large extent	84%	69%	72%	54%	68%
To a small extent	16%	29%	27%	40%	30%
Not at all	0%	2%	1%	7%	3%
N-	61	601	164	244	37

Source: Technopolis ranking based on survey of data centre users, January 2010



Economic Impact

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



The European Dimension



E-Infrastructures, Interoperability and "Multiple Shop Windows"

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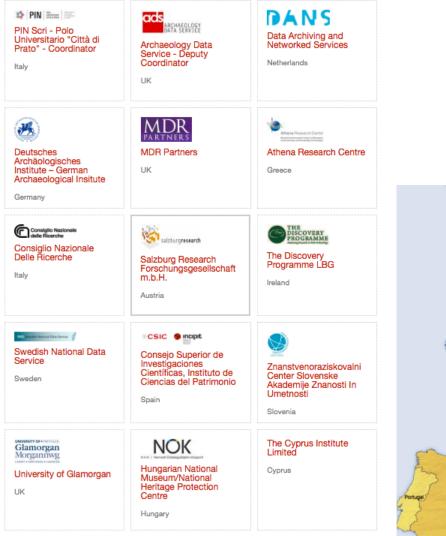
ARIADNE brings together and integrates existing archaeological research data infrastructures so that researchers can use the various distributed datasets and new and powerful technologies as an integral component of the archaeological research methodology. There is now a large availability of archaeological 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 See All
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Project consortium



Introduction

Consortium PIN - Coordinator ADS - Deputy Coordinator

KNAW-DANS

DAI

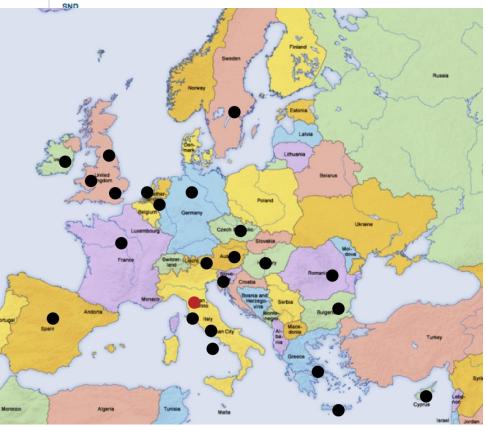
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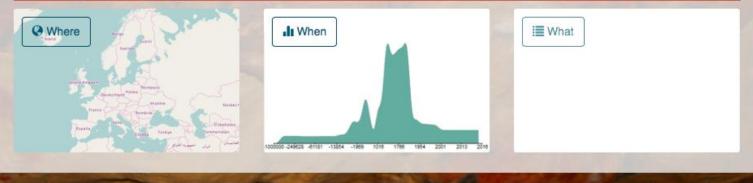
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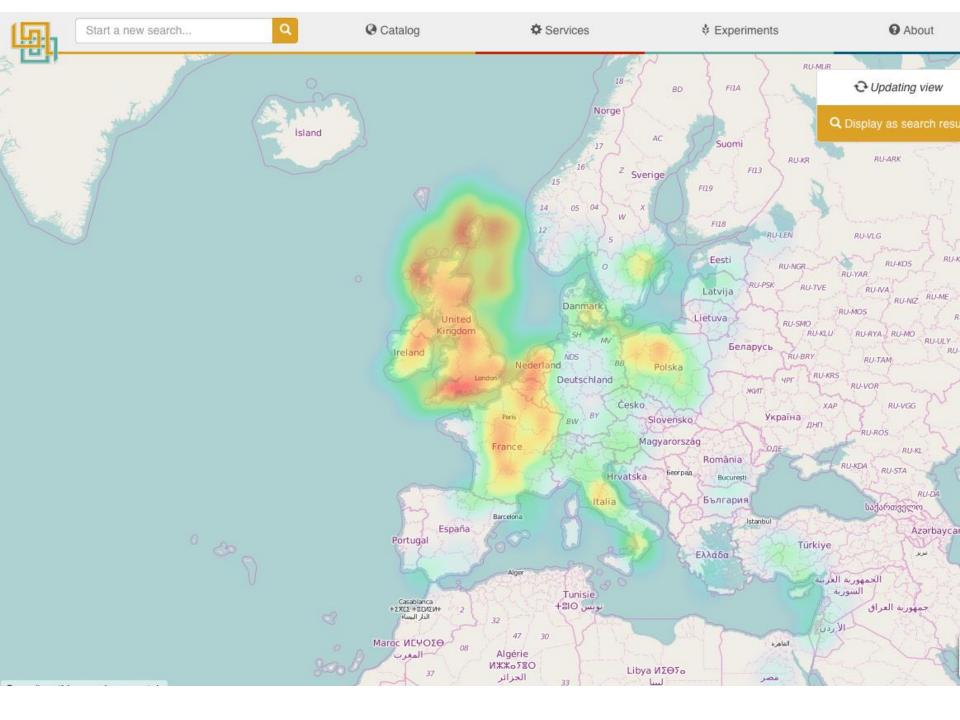


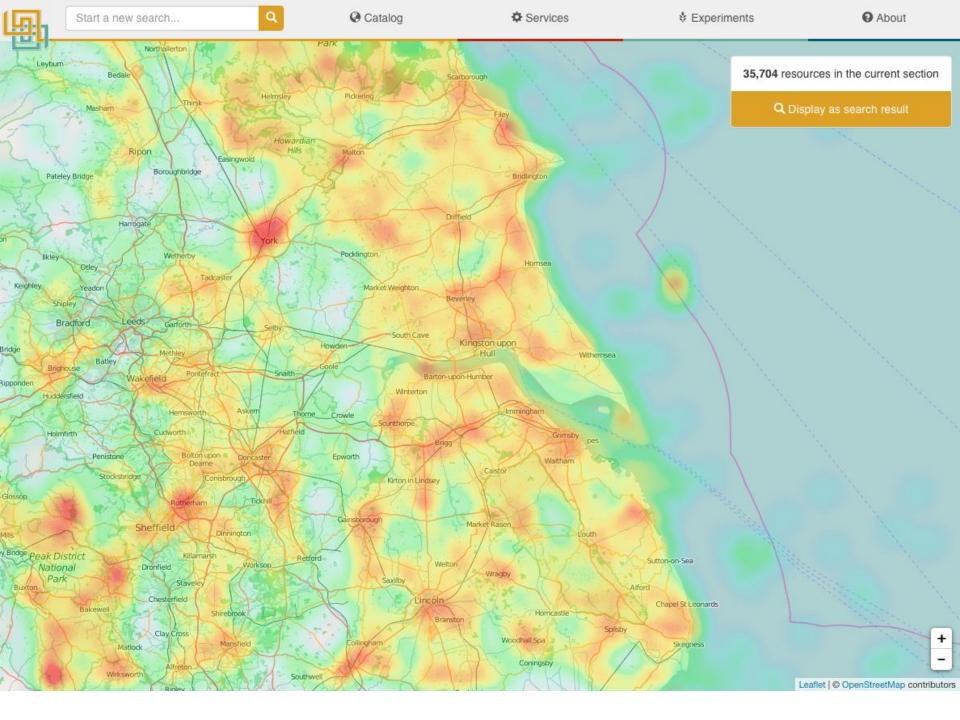
Welcome

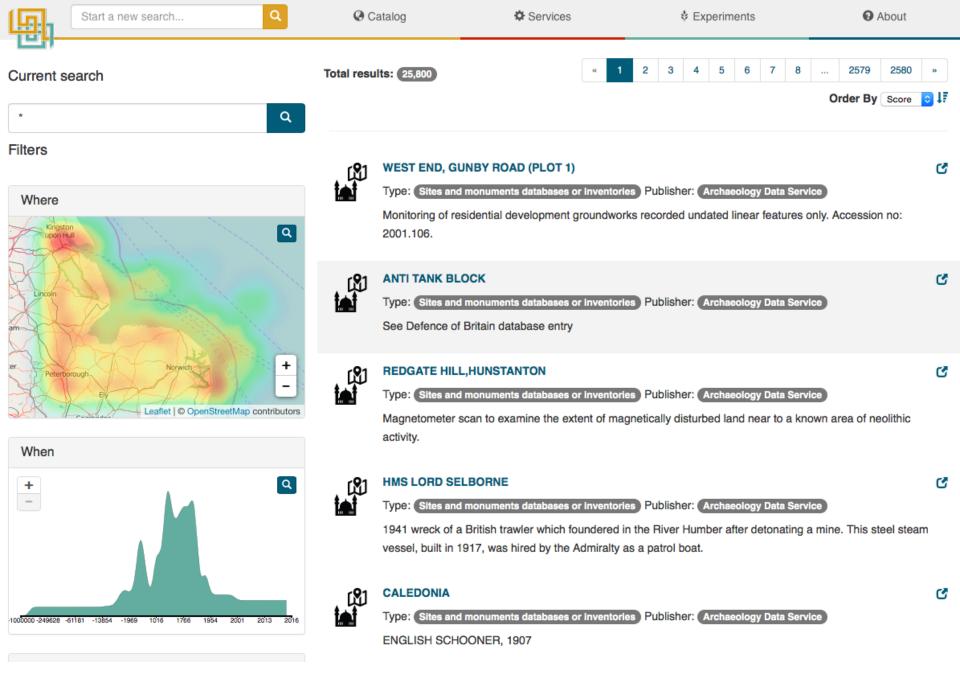
ARIADNE brings together and integrates existing archaeological research data infrastructures so that researchers can use the various distributed datasets and new and powerful technologies as an integral component of the archaeological research methodology.

Browse the Catalog











Q

Back to search results

Number 1 Poultry (ONE 94)

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

C Early Medieval C Medieval C Post Medieval C Roman

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

Metadata

Identifier	19138479
Language	English
Resource type	Fieldwork archives
Туре	Collection
Publisher	Archaeology Data Service [Organization]
Issued	2013
Contributor	Museum of London Archaeology [Organization]

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- The evolution of Romes maritime facade: archaeology and geomorphology at Castelporziano
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ENGLISH HERITAGE

Introduction

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A gazetteer of period definitions for linking and visualizing data.

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the period definitions as JSON.



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!



Canonical / ARIADNE Consortium. ARIADNE Data Collection. 2015.

ARIADNE Consortium. ARIADNE Data Collection. 2015.

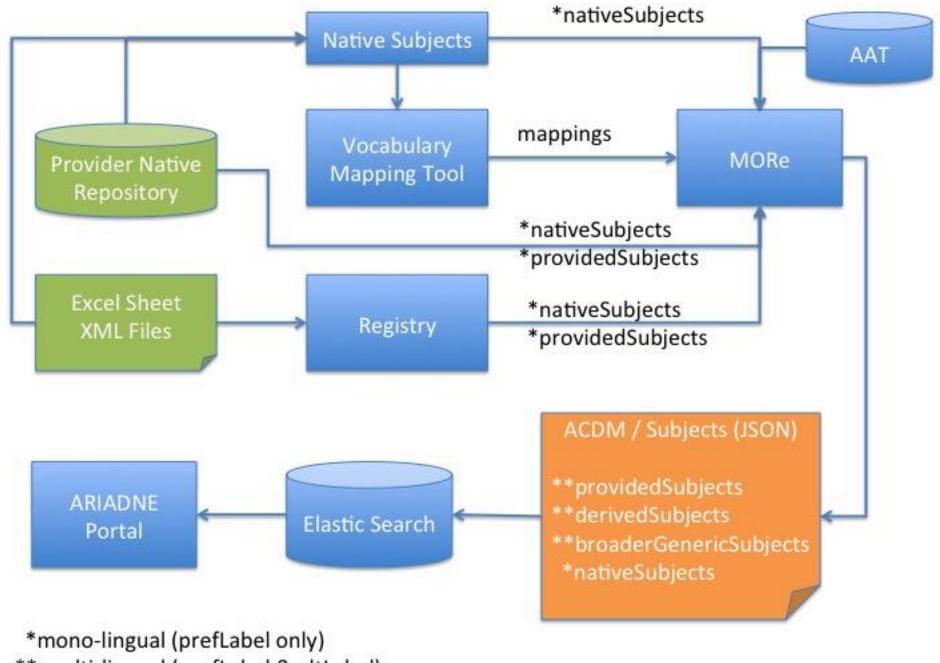
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Title	ARIADNE Data Collection
Citation	ARIADNE Consortium. "ARIADNE Data Collection". 2015. http://www.ariadne-infrastructure.eu/Resources/PeriodO/documentation.
URL	http://www.ariadne-infrastructure.eu/Resources/PeriodO/documentation
Year published	2015
Creators	ARIADNE Consortium

Editorial note

Periodizations gathered from ARIADNE partners on the national level in a series of EU countries, as well as periodizations from some non-EU Fasti Online contributors. Some of the definitions are derived from other PeriodO collections; where this is the case, a note has been included with the PeriodO URI of the definition from which it is derived.

Period list JSON-LD Turtle CSV		
Viewing 1 - 25 of 659		
Show 25 - periods at a time.		
Previous	1 2 3 26 27	Next
▲ Label	Earliest start	Latest stop
Label 20th Century	Earliest start	Latest stop 2000
20th Century	1901	2000



** multi-lingual (prefLabel & altLabel)



Conclusions

- Digital data preservation has a cost but data collection / data loss is more expensive
- Digital data is re-used and studies show research and economic return
- Sustainable business models for data archives are possible
- New models for publication/ dissemination
- Need to work at European level
- Data standards work is fundamental
- But have to accept that data aggregation involves some information loss



Thank-you for listening



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