



Twenty years after. Challenges and successes in digital archiving

Tim Evans 27-10-2018

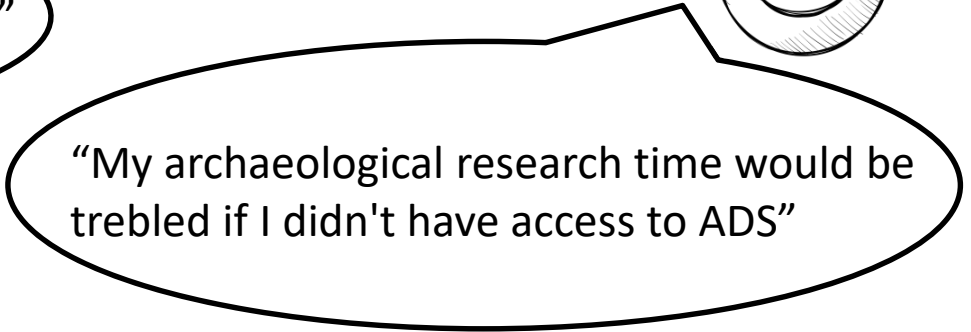
Introduction

In April 1996 a consortium comprising eight Departments of Archaeology from UK Universities joined forces with the Council for British Archaeology (CBA) to put a proposal to the Arts and Humanities Data Service Executive to establish an *Archaeology Data Service*

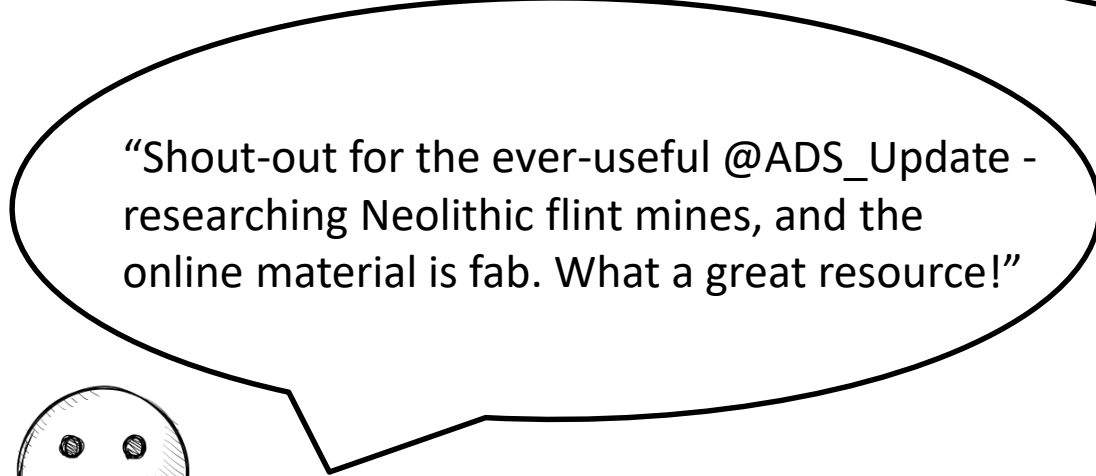




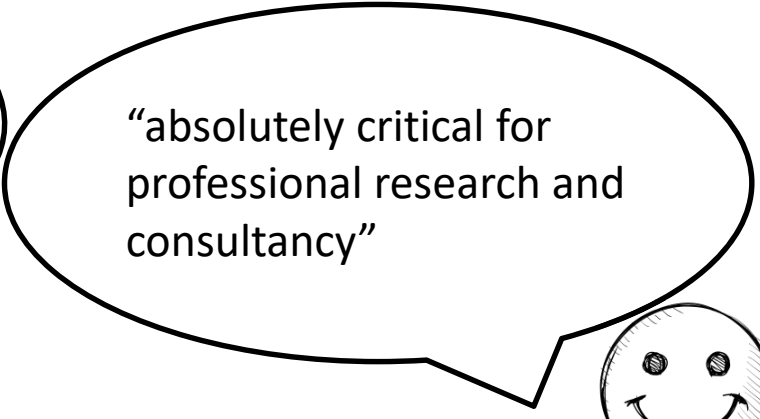
“ADS has been a lifeline for my research”



“My archaeological research time would be trebled if I didn't have access to ADS”



“Shout-out for the ever-useful @ADS_Update - researching Neolithic flint mines, and the online material is fab. What a great resource!”



“absolutely critical for professional research and consultancy”



“hi tim, it’s your mum. What’s a tif file?
Love mum xxx”



“do I need planning permission for my
Garage extension?”



“Are these dinosaur bones?”



“I’m researching my family history...”



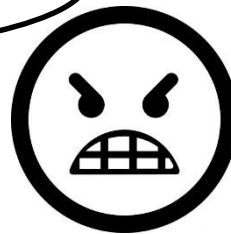
"It is a very cumbersome system"



"Whoever designed this system
should be shot!"



"I hate you SO much"



Background

- Founded in 1996 as part of the AHDS
- 20 years after our first collection was accessioned (RCAHMS!)
- First iteration of the website in 1998
- Withdrawal of AHRC funding for the AHDS (in 2008)
- ADS business model based upon project-based charging policy

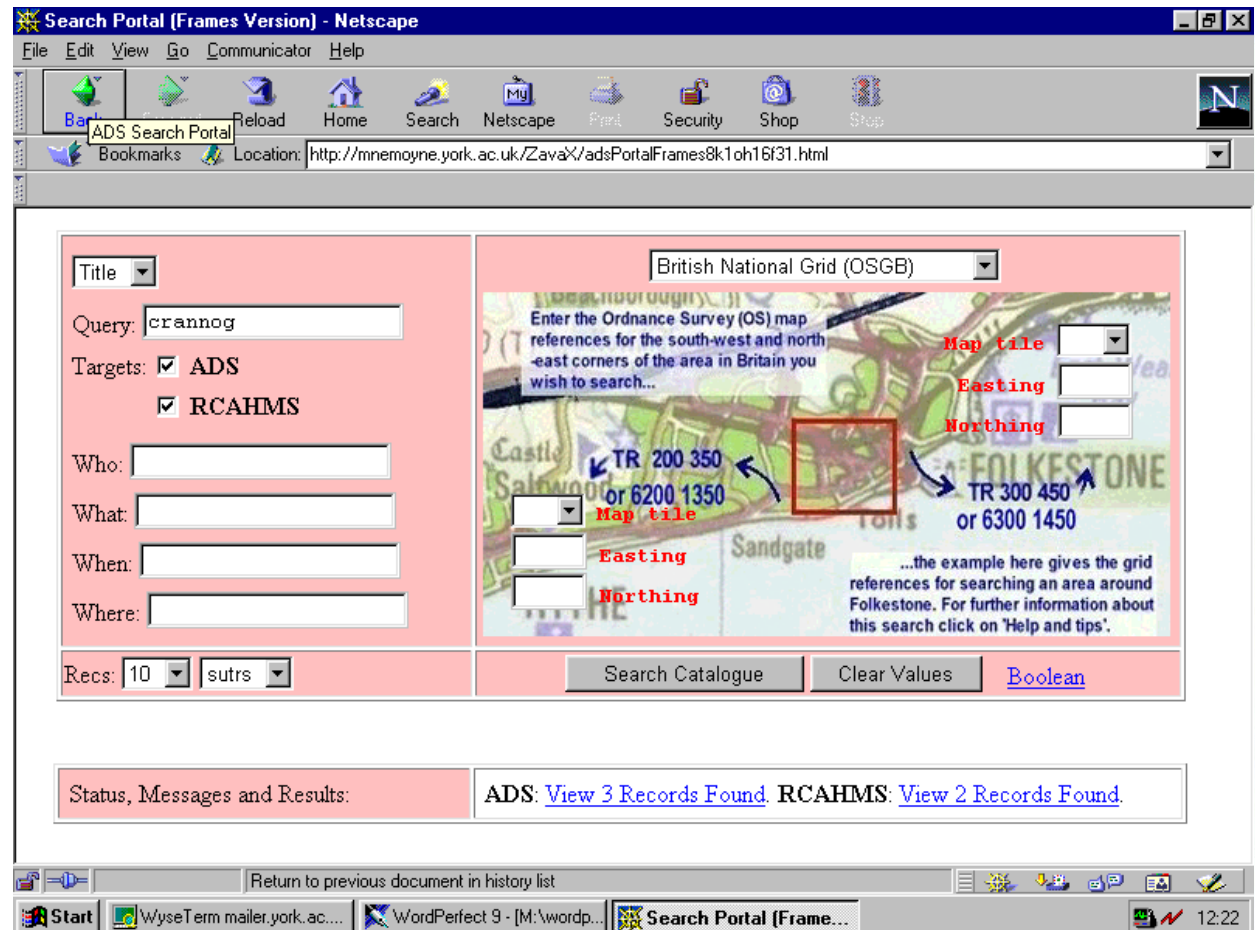
Archaeology Data Service

<http://ads.ahds.ac.uk/>

Part of the residing at **THE UNIVERSITY of York**

Archaeology Data Service
King's Manor
York YO1 7EP
(01904) 433 954 phone
(01904) 433 939 fax
info@ads.ahds.ac.uk

Background

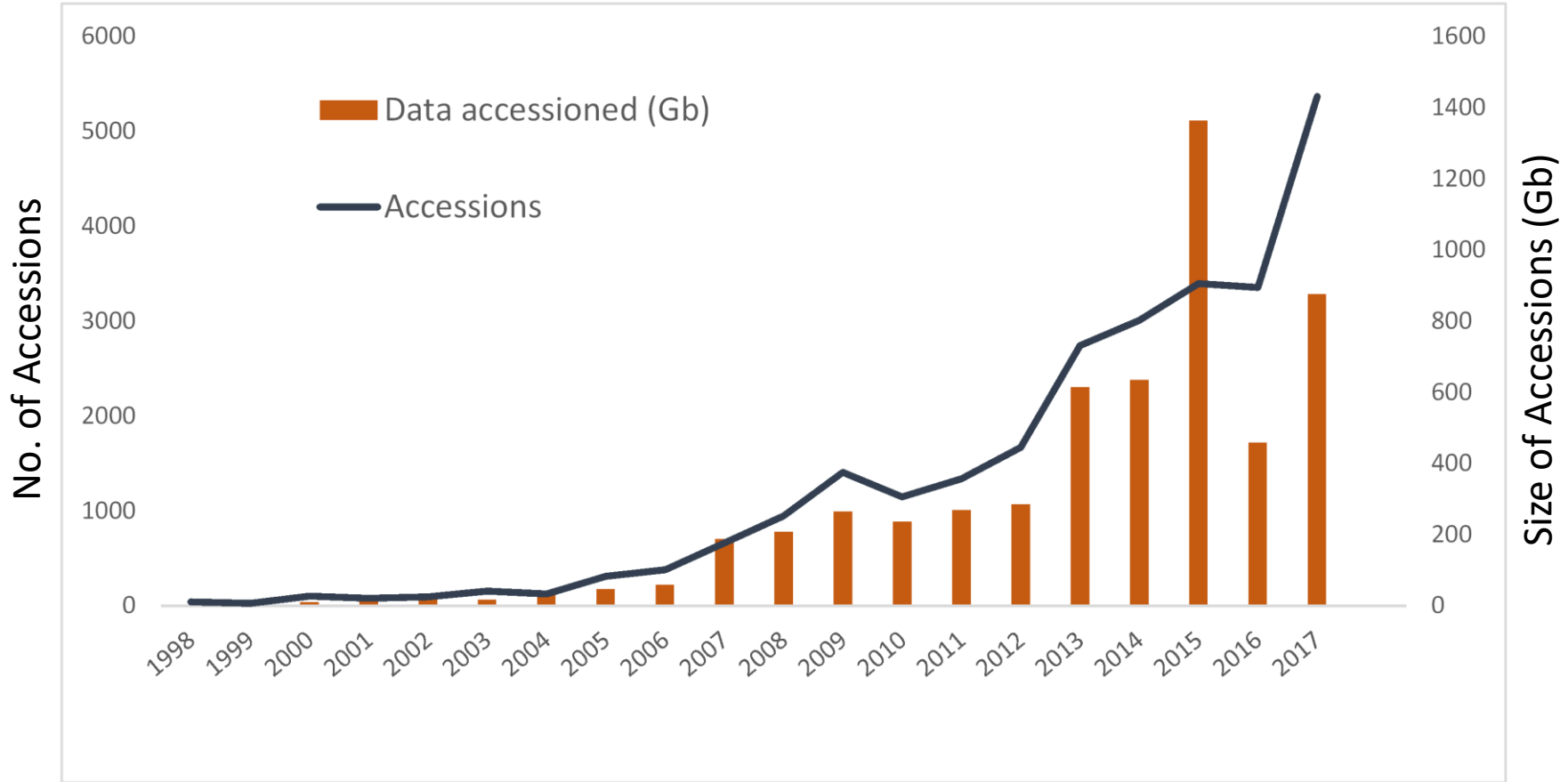


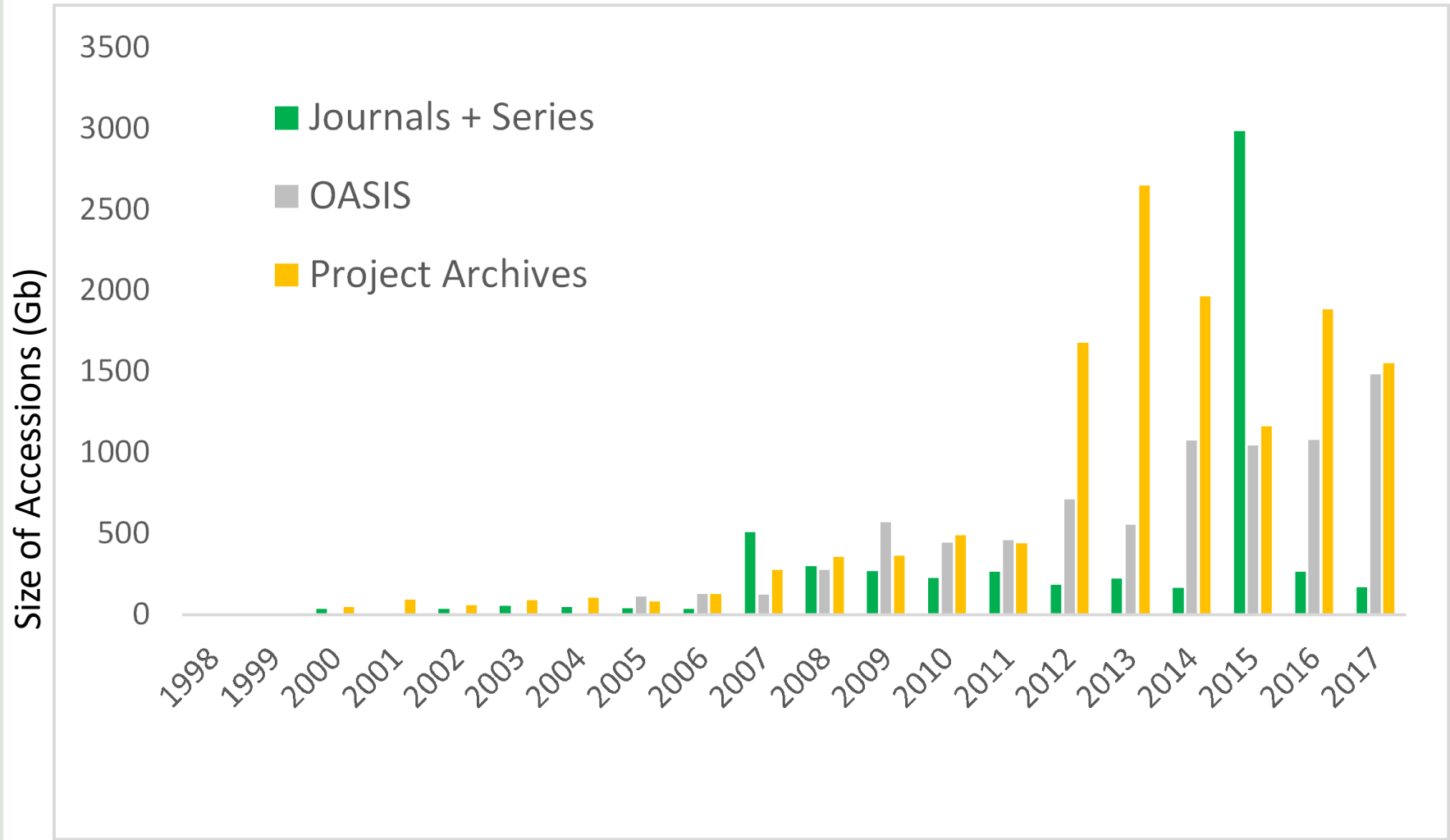
Background

- Core remit was with AHRB/AHRC projects
- Quickly also started to take specialist databases and national inventories
- Still more of an applied research project – one single ORACLE database, very small number of physical servers
- Relatively little data from archives

The screenshot shows the Archaeology Data Service website. At the top left is the 'ads' logo. The main header reads 'Archaeology Data Service' with a search bar on the right containing the word 'search'. Below the header is a navigation menu with links for 'Archsearch', 'Archives', 'Publications', 'Learning & Teaching', and 'Policy & Guidelines'. The main content area is divided into several sections:

- Archsearch:** A section with a red background and white text. It states: 'The Archaeology Data Service (ADS) supports research, learning and teaching with high quality and dependable digital resources. We achieve this by preserving digital data in the long term, and by promoting and disseminating a broad range of data in archaeology.' Below this, it says: 'The ADS promotes good practice in the use of digital data in archaeology, it provides technical advice to the research community, and supports the deployment of digital technologies.'
- Department of Archaeology:** Contact information for the University of York, King's Manor, York YO1 7EP, UK. Phone: +44 (0)1904 433954, Fax: +44 (0)1904 433939, Email: email.
- THE UNIVERSITY of York:** The university logo.
- Latest News:** A section with a red background and white text. It lists several news items: 'November 2007: 70 additions to the Grey Literature Library.', 'October 2007: DES 1947-2001 released online', 'October 2007: Big Data project final report now available.', 'October 2007: CAA UK 2008 call for papers.', and 'October 2007: OEE Egyptian Scene-details Database released.'
- Have you seen?:** A section featuring a photograph of an archaeological site. Below the photo is the title 'Imagining Calabria - A GIS approach to Neolithic landscapes' and a short description: 'Doortje Van Hove's PhD thesis reinterprets off-site Neolithic land use within southern Calabria, Italy, through synchronic and diachronic GIS...'. A 'See more...' link is provided.
- Resources:** A list of links including 'What's in ArchSearch', 'ARCHway', 'ARENA Archives and Portal', 'HEIRPORT', 'HEIRNET Register', 'Society of Antiquaries Library Catalogue', and 'Search All AHDS collections'.
- Projects:** A list of project names including 'Archaeotools', 'VENUS', 'ALSF', 'OASIS', and 'All projects...'.







HERITAGE GATEWAY



Web Services / WMS / OAI-PMH

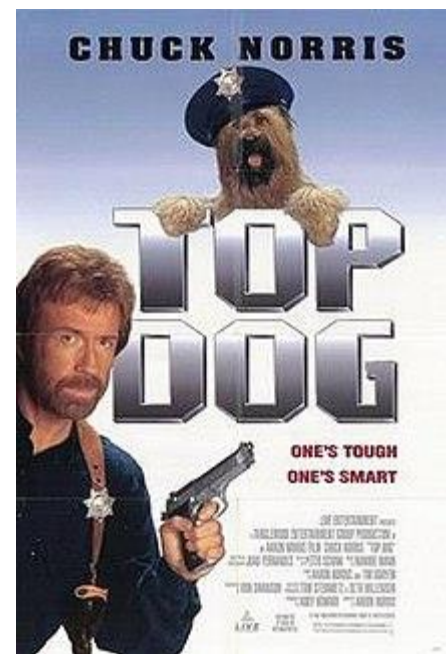
PostgreSQL





Leading + Learning

- Award winning work for Digital Preservation
- Accredited (Core Trust Seal*)
- Peer-reviewers in wider context
- The only people in the UK *doing* digital archiving for archaeology
- This has changed....



Leading + Learning

- National bodies (e.g. British Library, UKDA), slower to move but more resourced
- Institutional Repositories
- National Heritage bodies
- International concepts of what it is to *do* digital archiving have advanced





<https://www.dpconline.org/our-work/working-groups-and-task-forces/bedern-group>

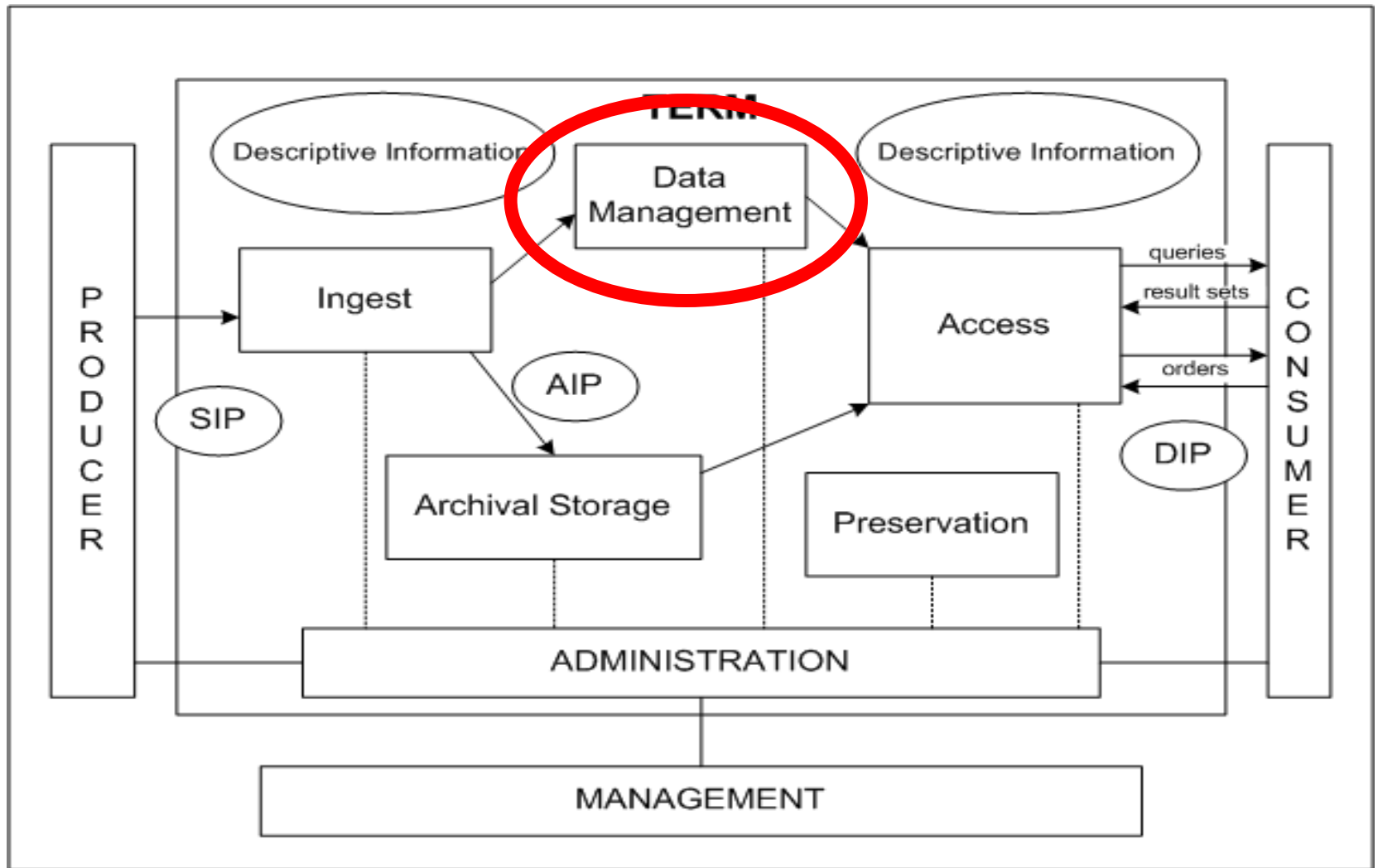


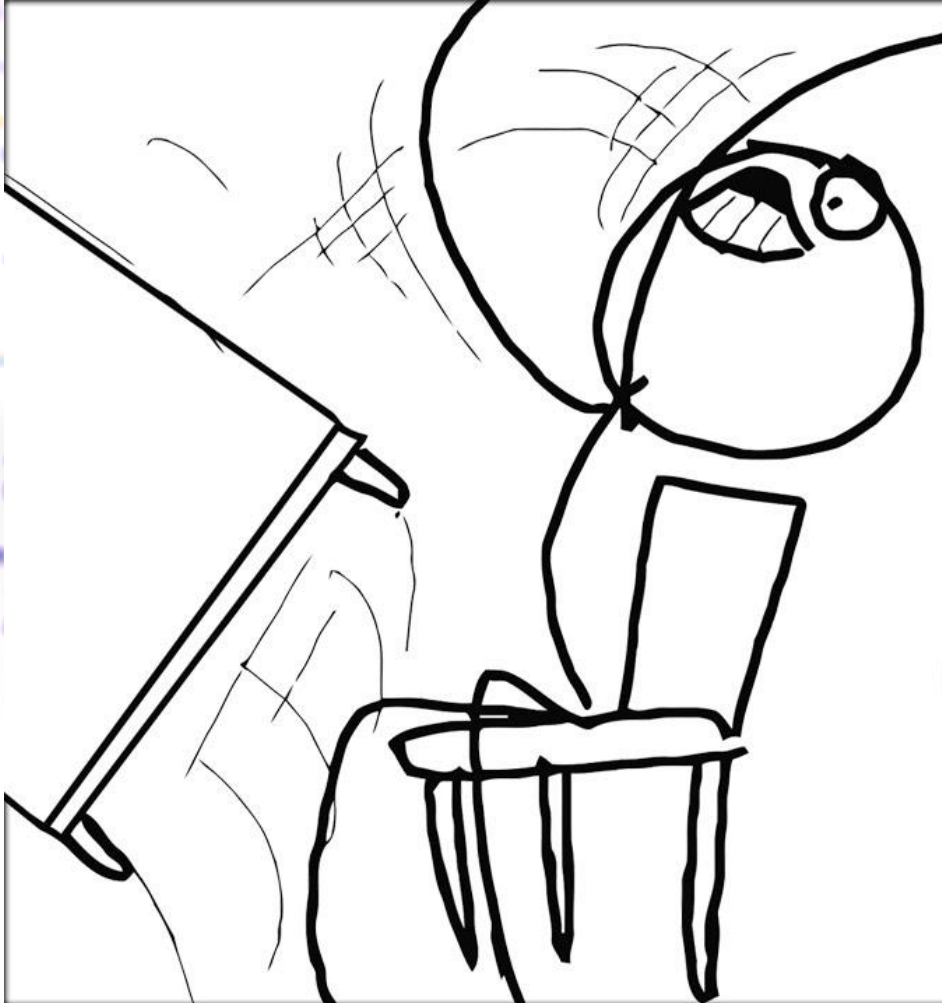
Fig. 1. Major functions of the OAIS Reference Model from Consultative Committee for Space Data Systems (CCSDS), CCSDS 650.0-W-1, Producer-Archive Interface Methodology Abstract Standard. (OAIS). White Book. Issue 1. Draft Recommendation for Space Data System Standards.

Data management






- The ADS currently have:
 - Over 2.5 million files
 - Over 300 unique formats
 - 20+ Tb
 - Growing at over 3Tb a year

Data management

- How do we know what we have?
- How do we manage objects comprising different files/data streams?
- How do we manage objects that are split up, but related?
- How do we associate metadata with the correct file?

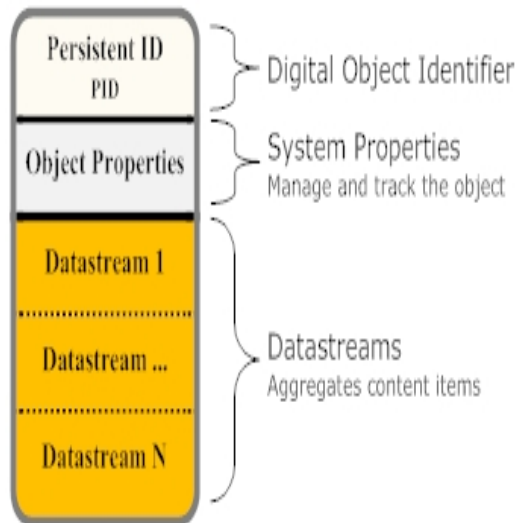


RAGE QUIT

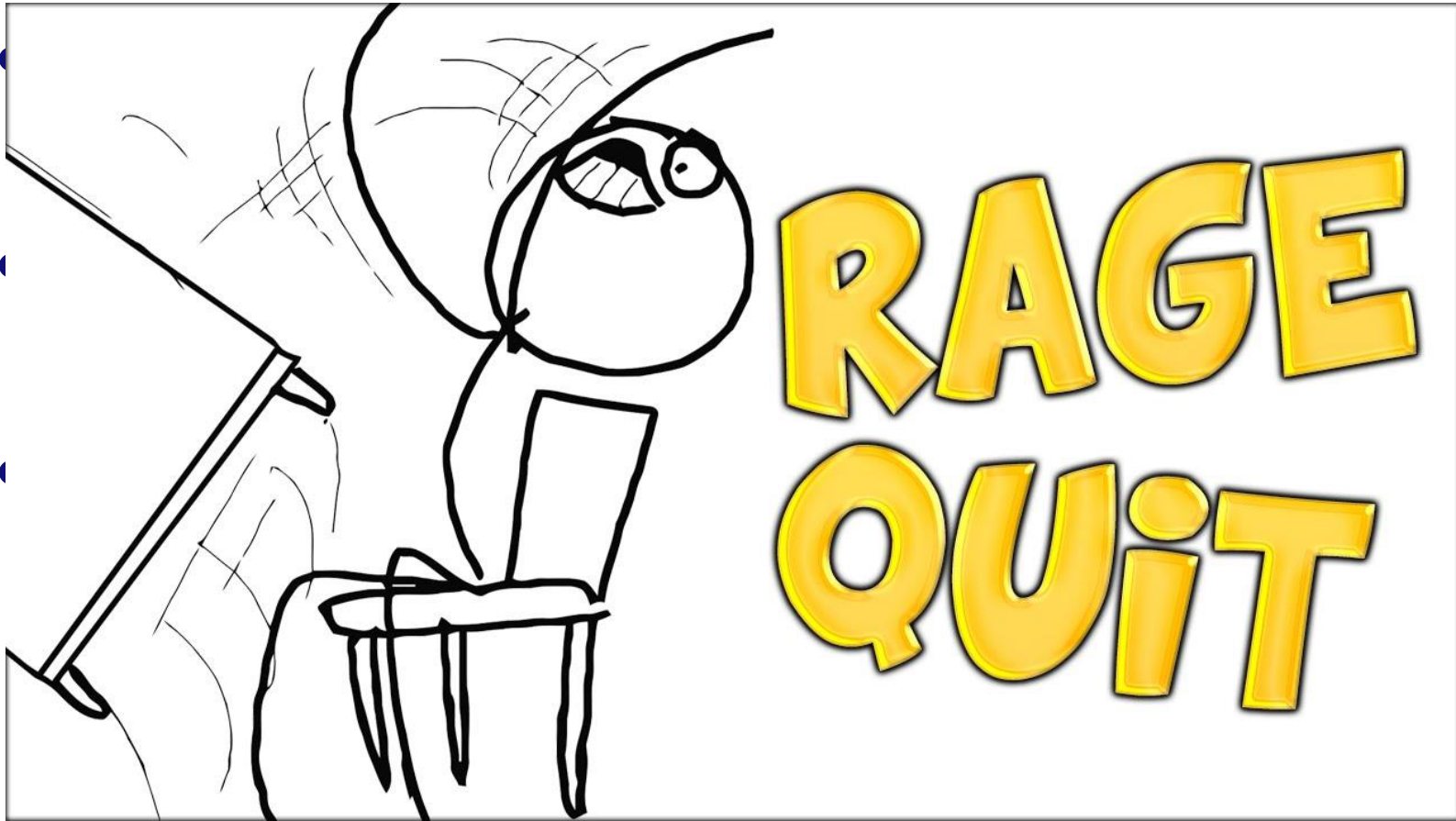
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-  General_Shot_of_Trench_13.tif
-  General_Shot_of_Trench-16.tif
-  IMG_0024.tif
-  IMG_0039.tif
-  IMG_0041.tif
-  IMG_0044.tif
-  IMG_0048.tif

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59,084 KiB	14/06/2016 16:10:48
59,084 KiB	14/06/2016 16:10:38
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59,084 KiB	14/06/2016 16:10:39
59,084 KiB	14/06/2016 16:10:41
59,084 KiB	14/06/2016 16:10:42
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59,084 KiB	14/06/2016 16:10:45

- Implementing Fedora (Flexible Extensible Digital Object Repository Architecture).



Fedora



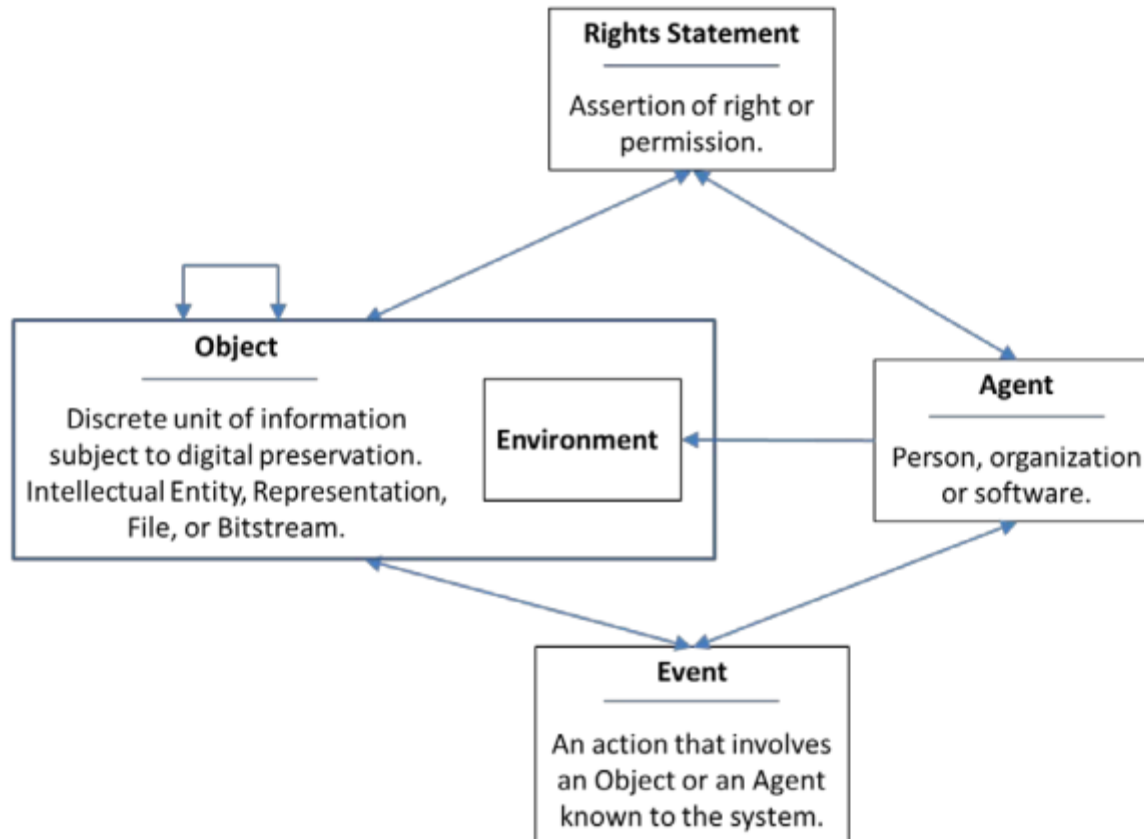
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1,217,603	2009-11-21 0...	image/jpeg	f87a9a59175243a559eb5de78756c441	1,001,414
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15,610,682	2009-09-10 2...	image/tiff	db614cc9ec1ceb1e2066df0d7edfcf4b	1,000,914
14,761,790	2009-11-21 0...	image/tiff	aa233d95956c3e5d08a82e0403beec8c	1,001,414
332,348	2009-09-10 2...	image/jpeg	cb1c33f2b613fad68c8f743a6e00003c	1,000,914
1,228,192	2009-11-21 0...	image/jpeg	512c531d6cb7335c3bd8995cb370c06b	1,001,415
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1,003,731	Original	p0000020.tif	/ADS_preservation/arch-1591-1/original/3306/2013-08-05/orig...

We

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1328033	Map of traditional farmsteads in Greater Lincolnshire with detached farm houses	GIS	12-Sep-2015	<ul style="list-style-type: none"> detached_point.dbf detached_point.prj detached_point.shp detached_point.shx detached_point.gml detached_point.prj detached_point.xsd detached_point.zip
1328032	Map of traditional farmsteads in Greater Lincolnshire with zadditional deatched elements to main plan	GIS	12-Sep-2015	<ul style="list-style-type: none"> d_point.dbf d_point.prj d_point.shp d_point.shx d_point.gml d_point.prj d_point.xsd d_point.zip
				<ul style="list-style-type: none"> JonathanParkhouse_Warwickshire.pdf LizPearson_Environmental.pdf MalcolmAtkin_Worcestershire.pdf MarkBowden_Earthworks.pdf MikeHodder_Birmingham.pdf PaulStamper_Countryside.pdf AnnWoodward_PotsPitsandMonuments_(2).pdf JamesGreig_Environmental.pdf JohnHalsted_BronzeAgeShropshire.pdf

PREservation Metadata: Implementation Strategies (PREMIS)



METADATA

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AIP

DIP

SIP

AIP

DIP

SIP

AIP

DIP

SIP

Metadata

OBJ + MTL
+Textures

Source images
(lots of raw)

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79	85	1/13/1980	Friday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	86	1/14/1980	Monday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	87	1/14/1980	Tuesday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	88	1/14/1980	Wednesday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	89	1/15/1980	Thursday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	90	1/15/1980	Friday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	91	1/16/1980	Monday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	92	1/16/1980	Tuesday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	93	1/16/1980	Wednesday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	94	1/16/1980	Thursday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	95	1/16/1980	Friday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	96	1/16/1980	Saturday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	97	1/16/1980	Sunday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	98	1/16/1980	Monday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	99	1/16/1980	Tuesday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	100	1/16/1980	Wednesday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	101	1/16/1980	Thursday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	102	1/16/1980	Friday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
79	103	1/16/1980	Saturday	John	Graves	Thames	02/08/14	John	Graves	06/17/07	Archaeo	Drain	6/13/2014	LIB-0P103	John	Graves	6/13/2014
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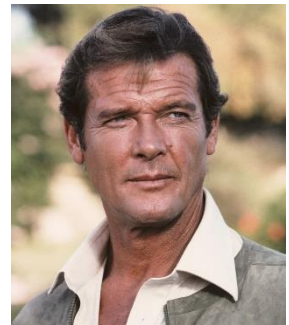
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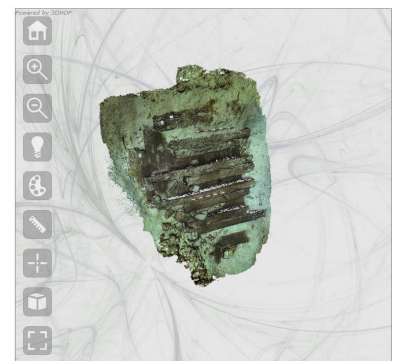
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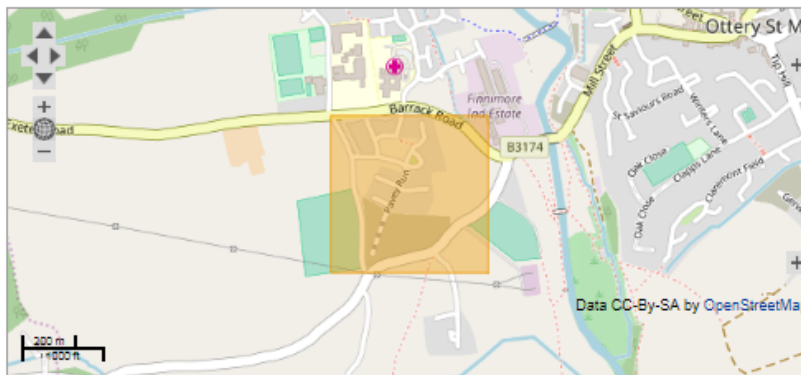
Resource identifiers

ADS Collection: 3151
DOI: <https://doi.org/10.5284/1047562>
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WHERE

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Island Farm, Ottery St. Mary, Devon. Archaeological evaluation and excavation



Location	World region	British Isles and Ireland	
	British Isles country	England	
	English region	South West	
	County	Devon	
	District	East Devon	
	Parish	Ottery St Mary	
	Place	Island Farm	
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	STRIP MAP AND SAMPLE		
	EVALUATION		
	FISH Archaeological Objects (England)	CLAY PIPE (SMOKING)	

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World region	British Isles and Ireland
British Isles country	England
English region	South West
County	Devon

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(England)

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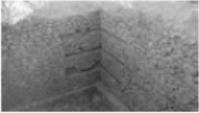
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DOI: <https://doi.org/10.5284/1038987>
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Image

		
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Period	Other	Late Aksumite
	Dates (BCE/CE)	350 to 800

Associated Metadata:

ADS Image metadata	CSV	604 Kb
Image metadata	XLSX	199 Kb

Thanks!

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