OOS ARCHAEOLOGY DATA SERVICE





The Archaeology Data Service

- Set up in 1996
- Based at the University of York
- Only accredited UK <u>digital data</u> repository for archaeology

Remit:

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







Outline

Part One

- Why is preserving data important
- Behind the scenes at ADS
- ADS Resources

Part Two

- Data Management Planning
- Data Practical





Why was ADS established?

- Archaeology is <u>destructive</u>
- Comprehensive <u>records</u> of field work are imperative
- The use of computers in archaeological fieldwork recording and research has become <u>routine</u>

Images © Buch Edition







Digital Data

Born Digital

Data created in digital format



Image © Oxford Archaeology (North)

Digitised Data

Hardcopy converted to digital format



Image © State Library of New South Wales 2015

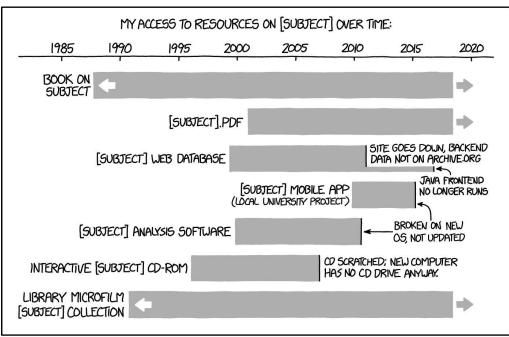


BEWARE: Digital Data is Fragile

Digital data is encoded and requires software & technology to present content

Your data





IT'S UNSETTUING TO REALIZE HOW QUICKLY DIGITAL RESOURCES CAN DISAPPEAR WITHOUT ONGOING WORK TO MAINTAIN THEM.

Image Copyright: https://xkcd.com/1909/



Why is Digital Data Fragile?



https://youtu.be/8dhp_20j0Ys



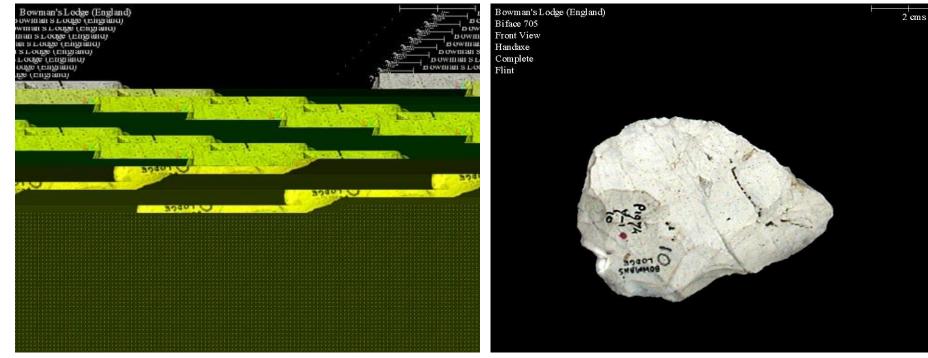
Why is Digital Data Fragile?

- Deterioration of the storage medium
 - Degrade Bit rot!
 - Can be easily damaged
 - Can be easily overwritten





Case Study: ADS



What happened to an image as it was removed from a CD.

What the image was supposed to look like.



Case Study: NASA!

- Lost original Apollo 11 data tapes
 - "original" in directly transmitted from Moon.
- Erased and reused.
- High-quality broadcast versions were found.
- NASA restored the found footage.
- Rereleased in HD for 40th anniversary of Apollo 11.

https://www.nasa.gov/feature/not-unsolved-mysteries-the-lost-apollo-11-tapes





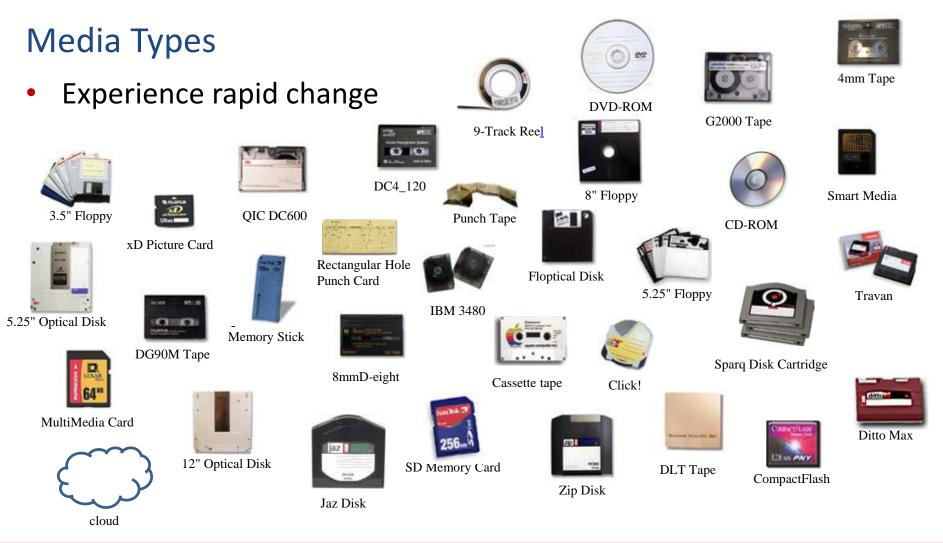
Why is Digital Data Fragile?

- Deterioration of the storage medium
- Obsolescence of the storage medium



Bit Rot cartoon © Digital Preservation Business Case Toolkit







Why is Digital Data Fragile?

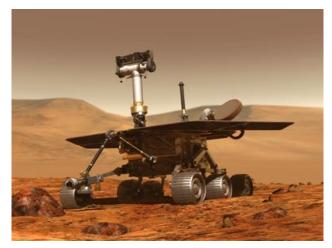
- Deterioration of the storage medium
- Obsolescence of the storage medium
- Obsolescence of the software





Case Study: NASA again!

- NASA sent two Viking Landers to Mars in 1975
- Data recorded on magnetic tape
- Climate controlled environment
- In the 1990s they could not decode the formats used
- Had to track down old printouts and retype everything





Photos: Courtesy NASA/JPL-Caltech



Why is Digital Data Fragile?

- Fragility of the storage medium
- Obsolescence of the storage medium
- Obsolescence of the software
- Obsolescence of the hardware









Technology

• Hardware experiences rapid change





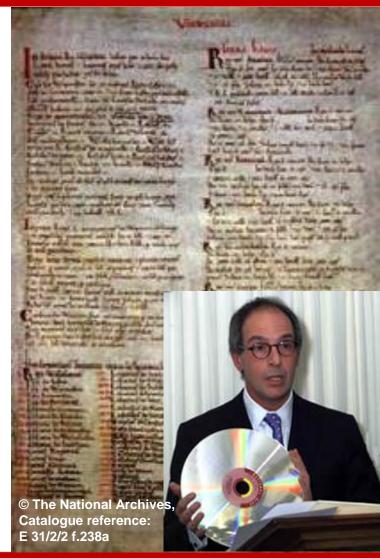




Case Study: BBC Domesday Project

- 1986
- photographs, maps, etc
- 30cm laserdiscs
- BBC Microcomputers
- In 2006 the laserdiscs were
 obsolete as was the hardware
- Rescue projects launched by The National Archives and Leeds University

http://www.bbc.co.uk/history/domesday/story





Why is Digital Data Fragile?

- Fragility of the storage medium
- Obsolescence of the storage medium
- Obsolescence of the software
- Obsolescence of the hardware
- Failure to document the data adequately

Bit Rot cartoon © Digital Preservation Business Case Toolkit

http://archaeologydataservice.ac.uk





Pr661_ArchiveInformation
 Pr661_Metadata
 Pr661_Photogrammetry_Topcon
 Pr661_PostExcavationImages
 Pr661_SiteImages

Pr661_AutocadDrawings
 Pr661_DigitisedSiteDrawings
 Pr661_DigitisedTopconProjects
 Pr661_FindsandEnvironmentalImages

Pr661_2007_Drawing-5001_Archive_v02.dw
 Pr661_2007_Drawing-5004-Sheet4-a_Archiv
 Pr661_2007_Drawing-5004-Sheet4-b_Archiv
 Pr661_2007_Drawing-5012-Sont-Sone-Sheet4_Archive
 Pr661_2007_Drawing-5016-Sheet14_Archive
 Pr661_2007_Drawing-5018-Sheet16_Archive
 Pr661_2007_Drawing-5020-Sheet17_Archive
 Pr661_2007_Drawing-5021-Sheet18_Archive
 Pr661_2007_Drawing-5024-Sheet19_Archive
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 Pr661_2007_Drawing-5025-Sheet22_Archive
 Pr661_2007_Drawing-5025-Sheet21_Archive
 Pr661_2007_Drawing-5025-Sheet21_Archive



Case Study: Newham Museum Archaeological Service

Active in archaeological fieldwork across North East London for several decades closed abruptly in 1998 with only a few days notice.

Staff left, computers were sold, a desperate salvage operation began

The result? Two shoe boxes of floppy disks.



Case Study: Newham Museum Archaeological Service

Archive:

- approx. 150 excavations
- 6432 individual files
- 1500 excavation reports
- 700 database files
- 1200 geophysics files
- 200 separate projects



Image © www.digitalbevaring.dk



Case Study: Newham Museum Archaeological Service

Archive:

- approx. 150 excavations
- 6432 individual files
- 1500 excavation reports
- 700 database files
- 1200 geophysics files
- 200 separate projects

The Problem?

- No link between
 - database/files and excavations
- Missing key to codes
- Little metadata
- Some files simply couldn't even be opened (i.e., CAD)



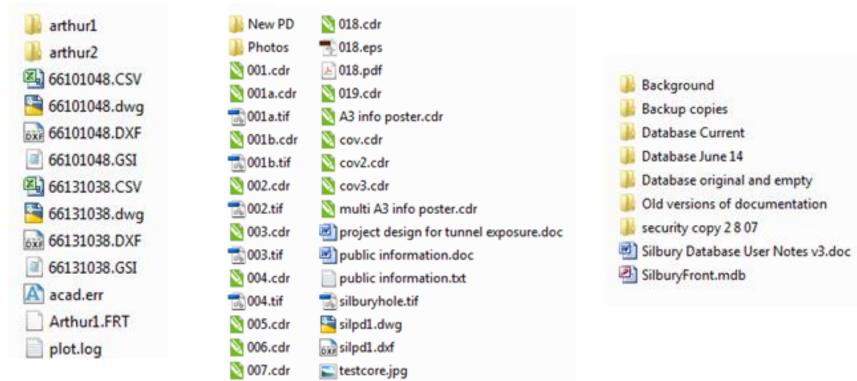
Case Study: Silbury Hill



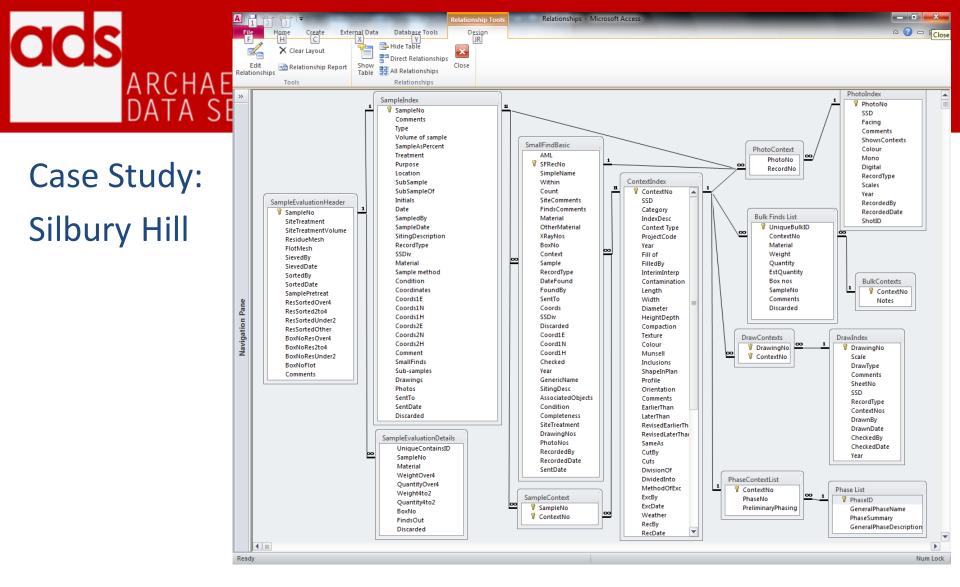
Silbury Hill from the eastern bank of the Winterbourne © English Heritage



Case Study: Silbury Hill



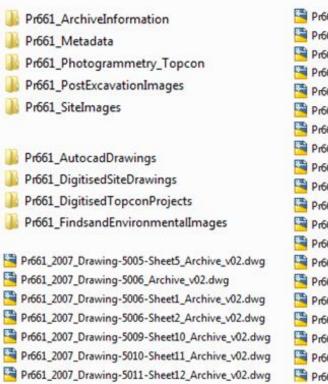
http://archaeologydataservice.ac.uk/blog/2013/08/jenny-rydersday-of-archaeology-at-the-ads-a-silbury-hill-update/



http://archaeologydataservice.ac.uk/blog/2013/08/jenny-rydersday-of-archaeology-at-the-ads-a-silbury-hill-update/



Case Study: Silbury Hill



Pr661_2007_Drawing-5001_Archive_v02.dwg Pr661 2007 Drawing-5004-Sheet4-a Archive v02.dwg Pr661_2007_Drawing-5004-Sheet4-b_Archive_v02.dwg Pr661_2007_Drawing-5012-5017-5019-Sheet13_Archive_v02.dwg Pr661_2007_Drawing-5015-Sheet14_Archive_v02.dwg Pr661 2007 Drawing-5016-Sheet15 Archive v02.dwg Pr661_2007_Drawing-5018-Sheet16_Archive_v02.dwg Pr661_2007_Drawing-5020-Sheet17_Archive_v02.dwg Pr661_2007_Drawing-5021-Sheet18_Archive_v02.dwg Pr661_2007_Drawing-5022-Sheet19_Archive_v02.dwg Pr661_2007_Drawing-5024-Sheet21_Archive_v02.dwg Pr661_2007_Drawing-5025-Sheet22_Archive_v02.dwg Pr661_2007_Drawing-5026-Sheet23_Archive_v02.dwg Pr661_2007_Drawing-5027-Sheet24_Archive_v02.dwg Pr661_2007_Drawing-5028-Sheet25_Archive_v02.dwg Pr661_2007_Drawing-5028-Sheet26_Archive_v02.dwg Pr661_2007_Drawing-5029-Sheet27_Archive_v02.dwg Pr661_2007_Drawing-5031-Sheet28_Archive_v02.dwg Pr661_2007_Drawing-5032-Sheet29_Archive_v02.dwg Pr661 2007 Drawing-5033-Sheet30-a Archive_v02.dwg

http://archaeologydataservice.ac.uk/blog/2013/08/jenny-rydersday-of-archaeology-at-the-ads-a-silbury-hill-update/



Protecting Digital Data

- Recognise data is as <u>fragile</u> as the archaeological record we excavate
- <u>Stop</u> archiving data as <u>objects</u> rather than computerised information







Protecting Digital Data

- Recognise data is as fragile as the archaeological record we excavate
- **Stop** archiving data as **objects** rather than computerised information
- Create **Data Management Plans**
- Professionally archive digital material



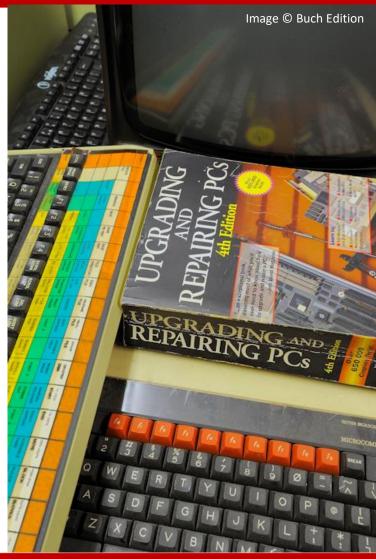


ADS Role: Digital Preservation

3 Methods

- The Hardware Museum
- The Software Emulator /Virtualisation
- Migration

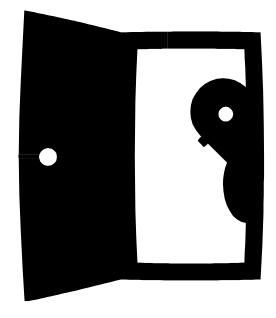
NB much more intervention is needed than conventional archives



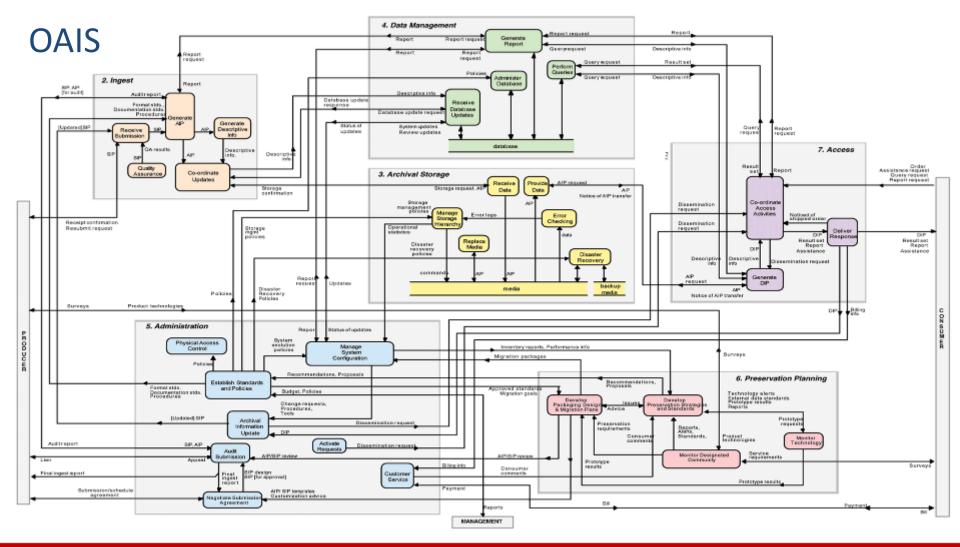


Behind the Scenes at the ADS

- Use data **migration** strategies
- Follow the Open Archival Information
 System (OAIS) reference model
 - International ISO standard 14721
- Ensure the multiple and regular backups and the renewal of storage media
 - 30+ Virtual Servers
 - Tape backup at University of York & Hull
 - Deep Store

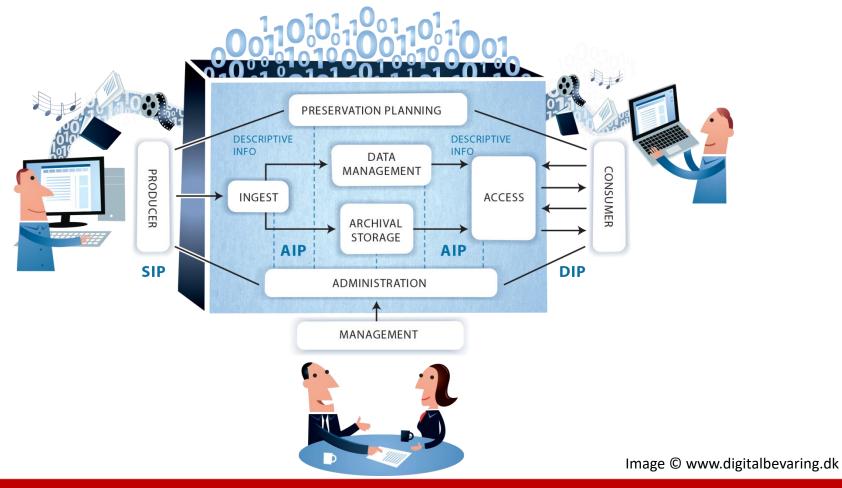








Open Archival Information System (OAIS) reference model





How do ADS disseminate data?

Everything we archive is **freely** available through the web interface.

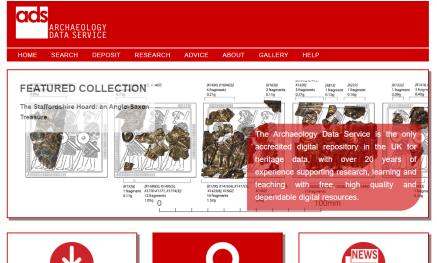
1.3 million metadata records 250,000+ bibliographic records

- 37 full text Journals
- 100+ full text monographs
- 56,000+ reports

3000+ data rich archives

• 22+TB data

https://archaeologydataservice.ac.uk /about/annualReports.xhtml



Depositing heritage data with the ADS ensures that your data will be professionally curated in the long term and easily accessible for future re-use. SEARCH ADS disseminates a bro

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



The Staffordshire Hoard: an Anglo-Saxon Treasure is now released to our archives!

Read what the Independent had to say about it here.



Outline

Part Two

- Data Management Planning
- Data Exploration Practical



Data Management Plan



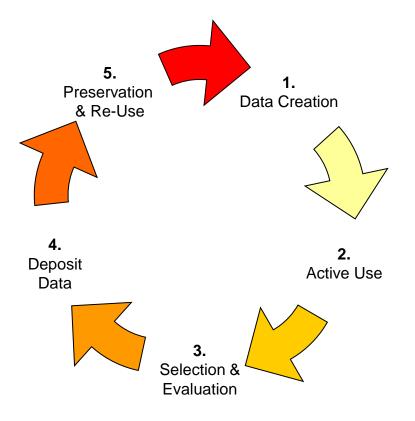
Data Management Plan



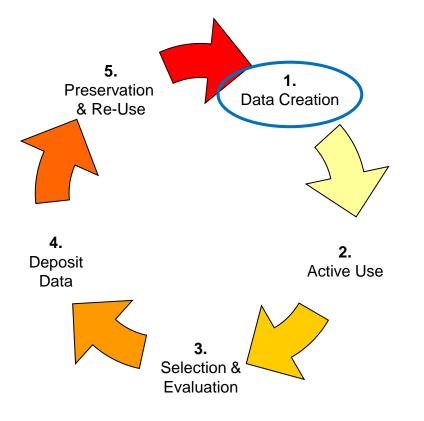




Data Cycles & Management Plans





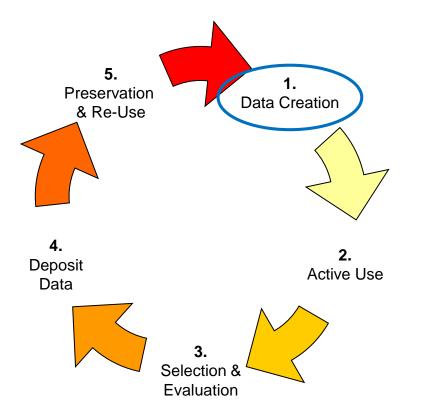


- What data will I produce?
 - Text documents
 - Artefact analyses
 - Sample analyses
 - Survey data
 - Drawings
 - Photographs
 - Recorded interviews
 - Etc..

http://www.jiscdigitalmedia.ac.uk/infokit /file_formats/digital-file-formats

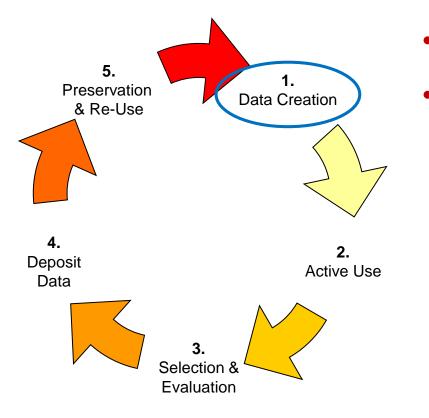
• Who will owns data? Do I need permissions?





- What data will I produce?
- How will I organise the data?





- What data will I produce?
- How will I organise the data?
 - File structure
 - File naming and versioning
 - What file formats will I use?
 - Which software will I use?
 - Roughly how many files?
 - How will I describe and document my data? METADATA



METADATA - Guides to Good Practice

- Digital Data (general)
- GIS
- CAD
- Geophysics
- **AP & Remote Sensing**
- **Excavation & Fieldwork**
- Virtual Reality
- UAV





Archaeology Data Service / Digital Antiquity Guides to Good Practice

o Home

- · Full Table of Contents
- Digital Archiving
- · About these Guidelines
- Archival Strategies
- The Project Lifecycle
- · Planning for the Creation of Digital Data
- Project Documentation
- Project Metadata
- Data Selection; Preservation Intervention Points
- The Project Archive: Storage and Dissemination
- · Copyright and Intellectual Property Rights
- Basic Components
- Documents and Texts

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

The project has been undertaken in collaboration with the Digital Antiquity initiative, a US-based project with the aim of enhancing the preservation of and access to digital records of archaeological investigations. A major aim of the Guides is to provide the basis for archaeological project workflows that will create digital datasets that can be archived and shared effectively by Digital Antiquity's tDARe 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 projecte has formed the basis of a guide focussed on marine survey. In addition, the incorporation of findings from the ADS Big Data project, together with the revision of the existing guide on aerial photography and remote sensing data, has seen a significant contribution to the guides from English Heritage funded projects

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

View the full new Guides to Good Practice Table of Contents









Log in

- · How to use these Guides
- · What is Digital Archiving?



Silbury Hill, archive metadata

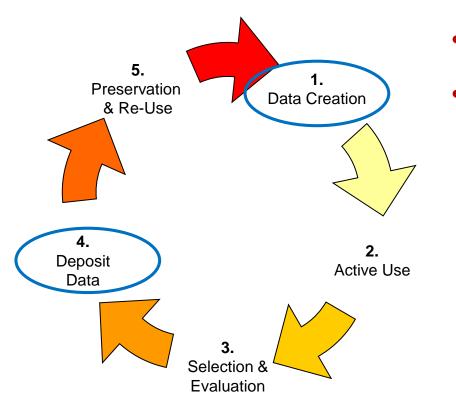
	World region	British Isles and Ireland						
	British Isles country	England						
	County	Wiltshire						
Location	District	Kennet						
	Parish	Avebury						
	Place	Silbury Hill						
	TGN	World, Europe, United Kingdom, England, Wiltshire, Silbury Hill (prehistoric site) [7032611]						
Grid reference	OSGB	410011 168532						
Grid reference	Latitude longitude bounding box	51.4174300461 -1.8605723152 -1.8541350603 51.4138434794						
	Archaeological Sciences (England)	SPECIALIST SAMPLING						
Subject	Archaeological Sciences (England)	ANTLER						
	Event Type (England)	BOREHOLE SURVEY						
	Event Type (England)	CORE SAMPLING						
	Event Type (England)	ARCHAEOLOGICAL INTERVENTION						



Silbury Hill, image metadata

Name of table	BulkFindsList							
Purpose of table	Records the bulk finds retrieved from site and from environmental							
	samples.							
Number of rows	237							
Primary Key	UniqueBulkID							
Foreign Key	ContextNo (links back to the ContextIndex table); Material (links to GlossBulkFindMaterial look-up table); EstQuantity (links to Gloss_Finds_EstimatedQuantities look-up table)							
Name of field	Full description of field and codes or terminology used	Data type and field length						
(PK) UniqueBulkID	A unique identifier for each instance of bulk finds entry.	AutoNumber-Long Integer						
(FK) ContextNo	Unique identifier for the Context the finds are from. Field 01	Number-Long Integer						
(FK) Material	Material. (What the artefact is made from:- controlled vocabulary, text to be retrieved from look-up table: GlossBulkFindMaterial) Field 75	Text-50						
Weight	Weight in grams. No field number on form.	Number-Long Integer						
Quantity	Number of artifacts/fragments associated with the record number. No field number on form.	Number-Long Integer						
(FK) EstQuantity	None-numeric field for estimate quantities. No field number on form. (Controlled symbols used to display the estimated quantities, can be retrieved and defined from look-up table: Gloss_Finds_EstimatedQuantities).	Text-10						
Box nos	Records which box the artefact was stored in. No field number on form.	Text-50						





- What data will I produce?
- How will I organise the data?
 - File structure
 - File naming and versioning
 - What file formats will I use?
 - Which software will I use?
 - Roughly how many files?
 - How will I describe and document my data? METADATA
 - Do I have to follow any requirements?

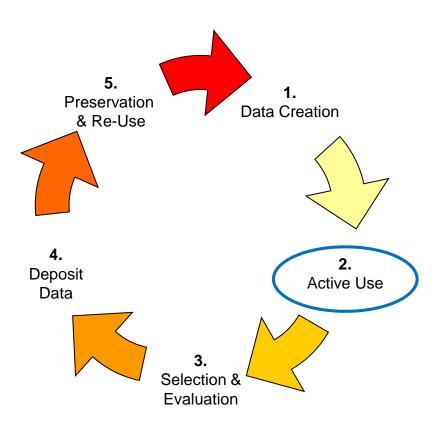


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2. Creating and Documenting your data 4. 2.1. Part 1: Starting the Project	5 6 7 8							
 2.1.1. Digital Archive Strategy 2.1.2. The need for Metadata / Documentation 2.1.3. File Naming Strategy 	9 10 11 <u>12</u> 13							
2.2. Part 2: Creating and Documenting Your Files	14 15							
 2.2.1. Overview of Preferred Data Formats 2.2.2. Databases and Spreadsheets 2.2.3. Geographical Information Systems 2.2.4. Geophysics and Remote Sensing 2.2.5. CAD and Vector Images 2.2.6. Raster Images 	o the digita	l rei	oosit	٥r	ear	VI		
2.3. Part 3: Documenting the Project			00510	ς,	Curi	• • •		
 2.3.1. Creating Metadata Records for Datasets 	28 29 30							
 Depositing with the ADS Why Deposit? The Archaeology Data Service (ADS) collects, catalogues, manages, preserves, and encourages re-use of dig 	al resources created as							
These pages describe the process of deposition and points to useful information about how to do it.	37 38							
Vhat is in the ADS collection?	39 40							
The ADS will provide an archival home for any archaeological data of interest to UK archaeologists. The ADS c	lections' scope is thu	1/			•		100%	

http://archaeologydataservice.ac.uk

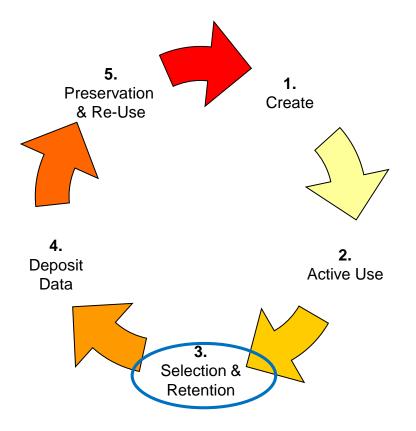
😜 Internet





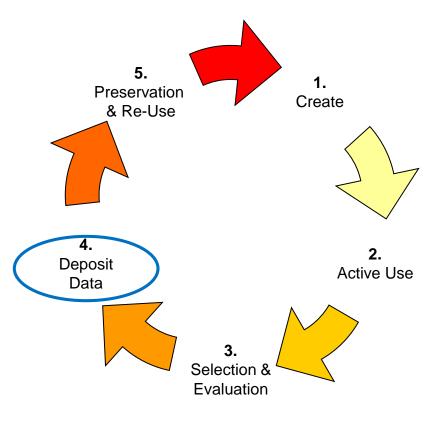
- What standards and quality assurance might I use?
- How will I share data?
- How will I backup data?
- When will I evaluate if my data management is working?
 - Is the file structure / naming understandable to others?
 - Are further data required?
 - Are new data types required?





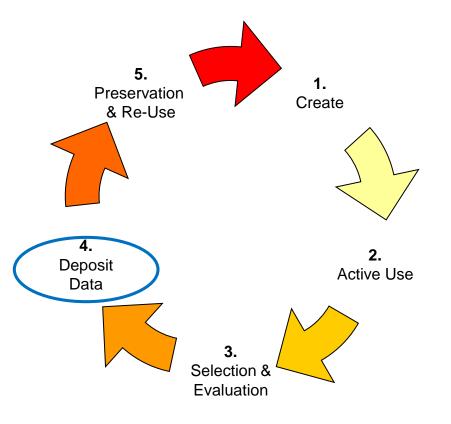
• What data will I keep? Selection and Retention strategy





• What data will be deposited and where?

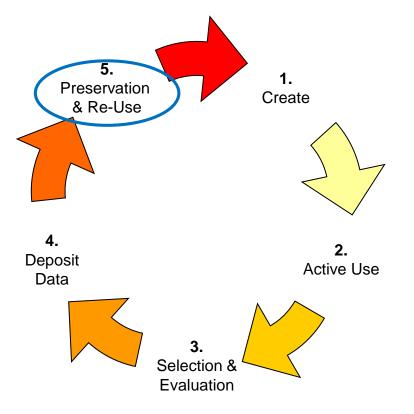




- What data will be deposited and where?
 - Define the core data set of the project
 - Which data are supplementary?
 - Licences
 - Metadata
 - Where? Trusted Repository!

Talk to the digital repository early!





- Who will be interested in re-using the data?
 - Who will be interested in re-using the data?
 - Is there sufficient information to allow easy re-use of the data?



"The single most useful thing you can do to ensure the long-term preservation of your data is to plan for it to be re-used. Imagining it being reused by someone else who has never met you and who never will meet you, will cause you to approach the creation and design of your data in a new light.

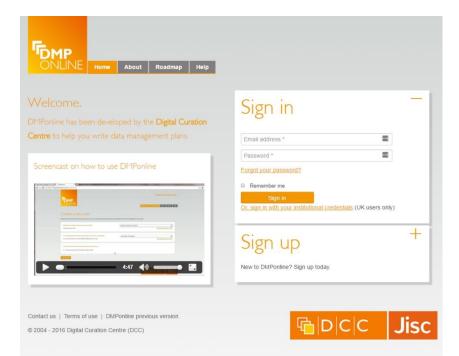
Moreover, studies show that re-use of data is the single surest way of maintaining the integrity of data and tracking errors and problems with it. In short, always plan for re-use" **Prof. Julian Richards, Director ADS**.

Creating a DMP: Some useful sources



General guidance on data management and the creation of plans :http://www.dcc.ac.uk/resources/datamanagement-plans

DMP ONLINE https://dmponline.dcc.ac.uk/





Why bother?

- Provides a practical starting point to help structure thoughts on your research/project
- Improves efficiency
- Help others understand the research process and how it developed
- Helps plan for data reuse by others, so the full potential of a research can be realised. Its lifecycle doesn't end here!
- Shows we take research integrity seriously and therefore increases trust in the archaeological community
- It is good practice
- Funding bodies require it!



What could go wrong?



- Cats-in-a-tent photos....and more
- Oral history project with no consent forms and therefore no audio files!

Downloads

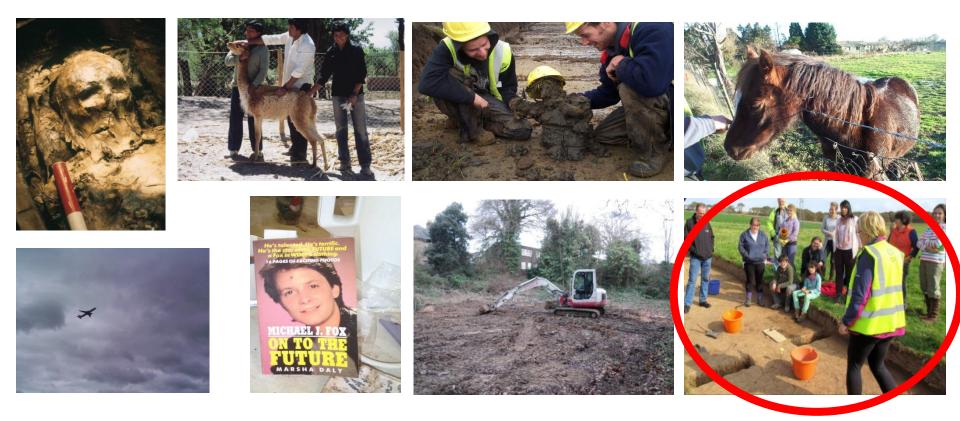
We regret that we are unable to offer the archived audio files for this project at present due to copyright restrictions.

- Project in the red sea with videos of the rock of Gibraltar
- Recently an archive with the wrong archaeological site name in all the metadata





Odd one out – which image was included in a deposit but is not on the ADS web site?



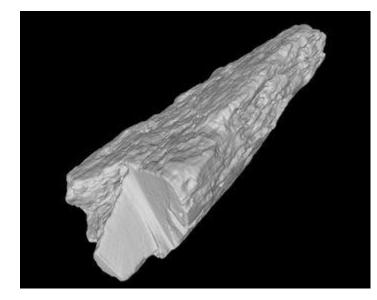


For an example of good data management: <u>Denisova 11 Human Bone Fragment</u> <u>ForSEAdiscovery</u>

For an example of poor data management: https://archaeologydataservice.ac.uk/learning /uniworkshop2020.xhtml



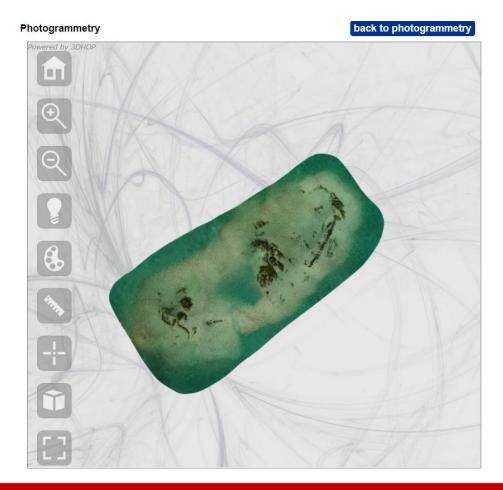
Denisova 11 Human Bone Fragment



msdata: id: 20150618_DC5 version: 1.1.0 cvList: cv: id: MS fullName: Proteomics Standards Initiative Mass Spectrometry version: 4.1.1 URI: https://raw.githubusercontent.com/HUPO-PSI/psi-ms-CV/r cv: id: UO fullName: Unit Ontology version: 09:04:2014 URI: https://raw.githubusercontent.com/bio-ontology-researc fileDescription: fileContent: cvParam: MS1 spectrum cvParam: profile spectrum sourceFileList: sourceFile: id: fid name: fid location: e:/20150618 DC5/0 I22/1/1SRef cvParam: SHA-1, b305b66c1045710c0ea9fda0b6629cfb893175f7 cvParam: Bruker FID format cvParam: scan number only nativeID format sourceFile: id: I22 20150618 DC5 1.mzXML



ForSEAdiscovery





ForSEAdiscovery

RIB

This model is intended to show the overall site of the Ribadeo Shipwreck, located in Galicia, Northern Spain. The site was investigated by ForSEAdisovery during a fieldwork campaign in June 2015. (Brandon Mason Maritime Archaeology Trust)

Metadata

RIB01 EXIF	TXT	408 Kb
RIB01 Photogrammetry Report	XLSX	54 Kb

OBJ files

RIB obj	ZIP	39 Mb
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Source Images

A-RIB01-28-06-2015-1-BM-P-0001-0018	ZIP	97 Mb
A-RIB01-28-06-2015-1-BM-P-0019-0037	ZIP	98 Mb
A-RIB01-28-06-2015-1-BM-P-0038-0055	ZIP	94 Mb



For an example of poor data management: https://archaeologydataservice.ac.uk/learning /uniworkshop2020.xhtml

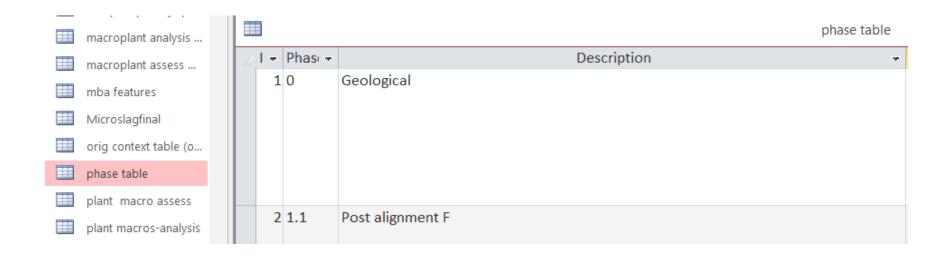


08/04/2016 10:09	Adobe Acrobat D	11,031 KB
08/04/2016 10:09	Microsoft Word 97	23 KB
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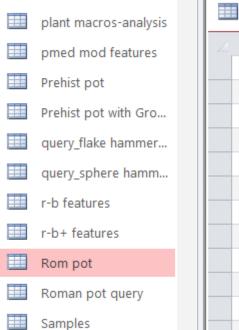


Tab	oles 🕞	«									
	eia mia features										Flint
	EIA pot query		1	Context -	colot 🚽	Туре 🚽	Cour -	Corte -	source 👻	Condition 💂	Comment
	EIA quern+weights+			0	pat	FLAK	1	s	g		
	Feature Nos for sa			0	mg	FLAK	1	t			
	final eia phase plan			20	dg	FLAK	1	с	g		?burnt
	Final Hammerscale f				dg	FLAK		С	g	f	
	That Hammerscale 1			28	mg	FLAK	1	t	g	f	
	Final Hammerscale t			89	mg	FLAK	2	S	g	f	
	final lba phase one			89	mg	FLAK	1	t	g	f	
	final Iba phase plan			89	mg	FLAKUT	1	S	g	f	
				91	mg	FLAK	1	s	g		
	final Iba phase two			99	dg	FLAK	1	s	g		
	final Roman phase			106	dg	FLAK	1	s	g		
	Flint			106	mg	FLAK	1	t			



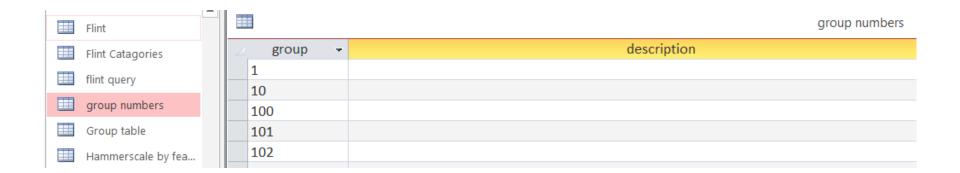






Context -	Туре	Ŧ	Count	-	Weight	Ŧ	Comments
20	0 DOR BB			1		2	
132	7 GW			5		8	burnt
132	3 GW			1		22	
134	6 OXF RS			6		29	
134	6 BS			16	1	.54	
134	6 OXF GW			5		16	
134	6 GW C			8		52	
134	6 GW			59	3	72	
169	4 LOC BBMIC			7	1	.34	some burnt
169	4 OXF RS			1		3	
169	4 GW C			2		16	
169	4 GW			2		2	









There are no references within the document nor any documentation to tell us the significance of these features or even which way is North.

We only know it's titled TP_2707



Answers

- 1. What is shown in photograph DCP _2707.jpg? No idea
- 2. On what plan is Context 890 drawn? 80/520
- 3. What contexts appear on Section drawing 249? **1173,1174,1175,1176**
- 4. In which phases /stratigraphic groups are post-holes 1231, 1235 and 1243? Group 34 Phase 1.6 LBA
- List the finds recovered and recorded from Context 931.
 Worked stone 1/0g, Worked stone 1/0, Stone tile 1/0, Roman pot 28/303, Daub 81109, Fe object 2/377
- 6. In what type of feature was Small Find 6 found? Pit 1141 context 1105
- 7. What is Small Find 6 and what is it made from? Loomweight, Fired clay
- 8. How many fragments of worked flint came from contexts 89 and 1704? 4 and 2.
- 9. Describe the cortex condition of the above fragments. No idea, 89 = f.
- 10. How many pottery jar sherds are there in Context 89? 15
- 11. What is the meaning of pottery form 'P'? No idea
- 12. What is the meaning of Roman pottery type BS? No idea
- 13. Explain Table J Overall Forms by Period B1 and B2. Haven't a clue!



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