



Archaeology  
Data Service

# The FAIR and CARE Data Principles

*Valeria Carrillo, Archaeology Data Service*

11th to 15th November 2024  
ADS Training School in Data Stewardship

## Introduction

### Overview:

- FAIR: Technical accessibility and usability of data
- CARE: Ethical stewardship and community respect

### Purpose:

- Explore how FAIR and CARE complement each other
- Understand their relevance to archaeology and heritage studies

In 2016, the **'FAIR Guiding Principles for scientific data management and stewardship'** were published in Scientific Data. The authors intended to provide guidelines to improve the **F**indability, **A**ccessibility, **I**nteroperability, and **R**euse of digital assets. The principles emphasise machine-actionability.

**GOFAIR:** <https://www.go-fair.org/fair-principles/>

# The FAIR Principles



## Findable

Easy to find by both humans and computer systems



## Accessible

Long term storage, easily accessed and/or downloadable, well defined license and conditions



## Interoperable

Ready to be combined with other datasets by both humans and computer systems



## Reusable

Ready to be used for future research

# The FAIR Principles

You want to:

- **Find** data, documents, images, etc.
- **Access** and download the information
- **Combine** data from different sources
- Know how to **reuse** and public what you found

You want your peers to:

- Be able to **find** your work
- Be able to **understand** your work
- Be able to **build upon** your work
- Be able to **cite and credit** your work

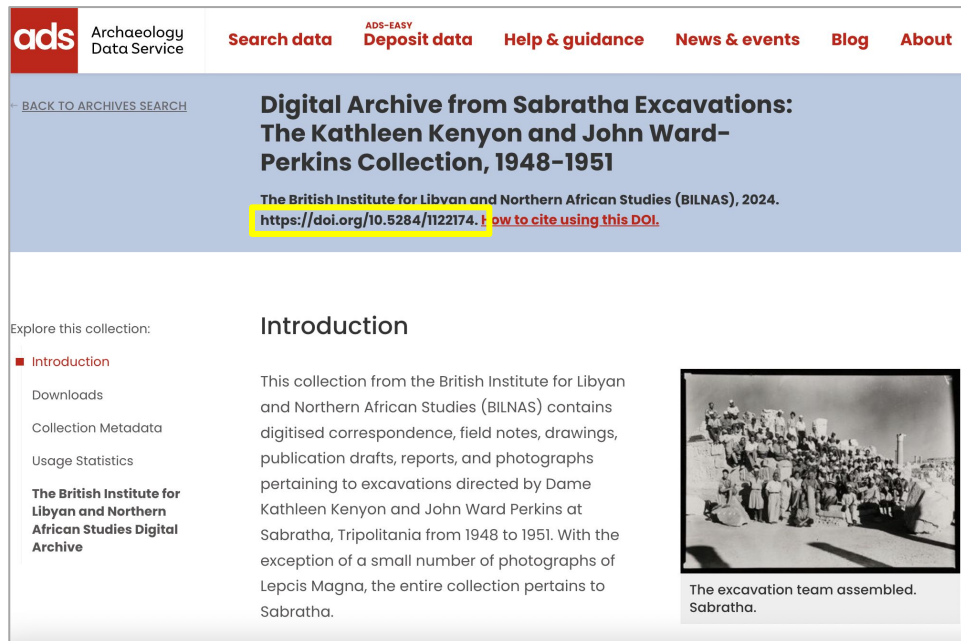
# Findable

- F1. (Meta)data are assigned a globally unique and persistent identifier
- F2. Data are described with rich metadata (defined by R1)
- F3. Metadata clearly and explicitly include the identifier of the data they describe
- F4. (Meta)data are registered or indexed in a searchable resource

## Findable

F1. (Meta)data are assigned a globally unique and persistent identifier

Digital Object Identifier (DOIs)



The screenshot shows the top navigation bar of the ADS website, including the ADS logo and links for Search data, Deposit data, Help & guidance, News & events, Blog, and About. Below the navigation bar is a blue header section with the title 'Digital Archive from Sabratha Excavations: The Kathleen Kenyon and John Ward-Perkins Collection, 1948-1951' and a DOI link: <https://doi.org/10.5284/1122174>. The main content area is divided into two columns. The left column, titled 'Explore this collection:', contains a list of links: Introduction (highlighted in red), Downloads, Collection Metadata, and Usage Statistics. The right column, titled 'Introduction', contains a paragraph of text describing the collection and a photograph of the excavation team assembled at Sabratha. The photograph is captioned 'The excavation team assembled. Sabratha.'

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Deposit data](#) [Help & guidance](#) [News & events](#) [Blog](#) [About](#)

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### Digital Archive from Sabratha Excavations: The Kathleen Kenyon and John Ward- Perkins Collection, 1948-1951

The British Institute for Libyan and Northern African Studies (BILNAS), 2024.  
<https://doi.org/10.5284/1122174>. [How to cite using this DOI.](#)


Explore this collection:

- **Introduction**
- Downloads
- Collection Metadata
- Usage Statistics

**The British Institute for  
Libyan and Northern  
African Studies Digital  
Archive**

### Introduction

This collection from the British Institute for Libyan and Northern African Studies (BILNAS) contains digitised correspondence, field notes, drawings, publication drafts, reports, and photographs pertaining to excavations directed by Dame Kathleen Kenyon and John Ward Perkins at Sabratha, Tripolitania from 1948 to 1951. With the exception of a small number of photographs of Lepcis Magna, the entire collection pertains to Sabratha.

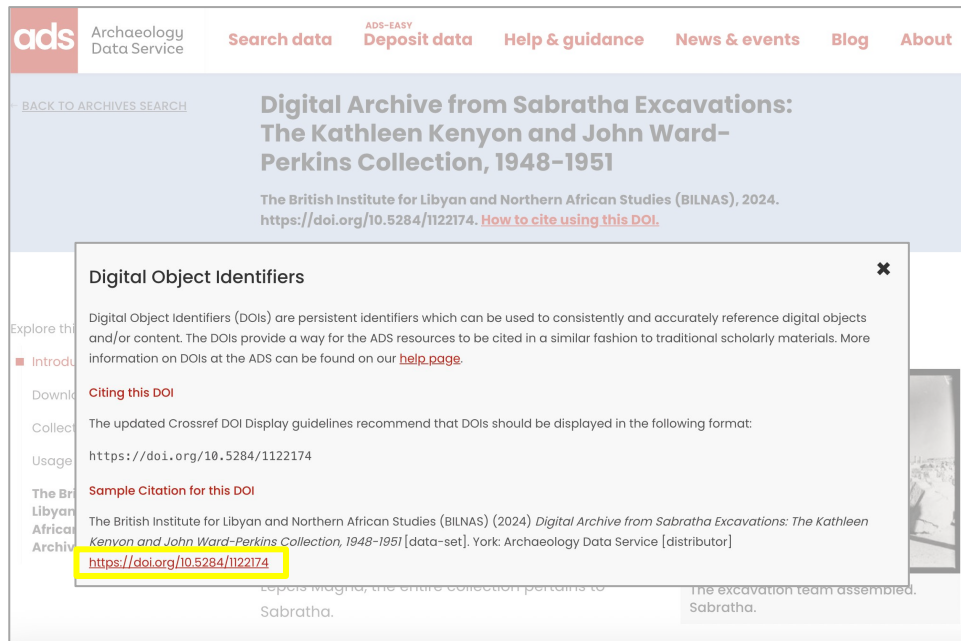


The excavation team assembled.  
Sabratha.

## Findable

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Digital Object Identifier (DOIs)



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The British Institute for Libyan and Northern African Studies (BILNAS), 2024.  
<https://doi.org/10.5284/1122174>. [How to cite using this DOI](#).

#### Digital Object Identifiers

Digital Object Identifiers (DOIs) are persistent identifiers which can be used to consistently and accurately reference digital objects and/or content. The DOIs provide a way for the ADS resources to be cited in a similar fashion to traditional scholarly materials. More information on DOIs at the ADS can be found on our [help page](#).

**Citing this DOI**

The updated Crossref DOI Display guidelines recommend that DOIs should be displayed in the following format:  
<https://doi.org/10.5284/1122174>

**Sample Citation for this DOI**

The British Institute for Libyan and Northern African Studies (BILNAS) (2024) *Digital Archive from Sabratha Excavations: The Kathleen Kenyon and John Ward-Perkins Collection, 1948-1951* [data-set]. York: Archaeology Data Service [distributor]  
<https://doi.org/10.5284/1122174>

Lepros magna, the entire collection pertains to Sabratha.

The excavation team assembled Sabratha.



## Findable

F1. (Meta)data are assigned a globally unique and persistent identifier

ORCID IDs

ORCID

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### Archaeobotanical Geodatabase of the Early Iron Age – Early Middle Ages in the Forest Zone of the East European Plain.

**Julia Salova** Leonid Vyazov, 2024. <https://doi.org/10.5284/1120956>.  
[How to cite using this DOI.](#)

Explore this collection:

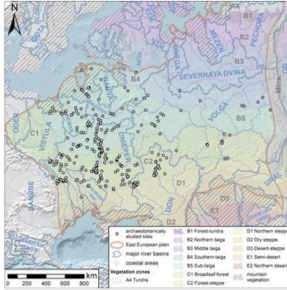
- Introduction**
- Downloads
- Collection Metadata
- Usage Statistics

#### Introduction

This digital archive comprises of an archaeobotanical geodatabase, with supporting image and GIS data of the assemblages of plant macroremains from the Early Iron Age – Early Middle Ages in the forest zone of the East European Plain.

This work is affiliated with the Laboratory of Archaeobotany and Palaeoecology, Faculty of Natural Sciences, University of South Bohemia in České Budějovice, Na Zlaté stoce 3, 370 05 České Budějovice, Czech Republic.

The geodatabase encompasses information on 373 previously published assemblages of plant macroremains originating from 321 archaeological sites. These sites are attributed to a chronological



**Fig. 1. Vegetation zones and major river basins of the East European Plain. Zones and types of vegetation belts by Ogureeva, G.N. (1999)**

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**Julia Salova** Leonid Vyazov, 2024. <https://doi.org/10.5284/1120956>.  
[How to cite using this DOI.](#)

Explore this collection

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- Downloads
- Collection Metadata
- Usage Statistics

#### Julia Salova

Julia Salova; Julia Salova; Yu. A. Salova; Yu. Salova; Salova, Yulia A.; Salova, Yu. A.; Salova, Y.A.; Yulia Salova; Salova Yulia

**ID** <https://orcid.org/0000-0002-8076-6887> [Show record summary](#)

Personal information	Activities
<b>Emails &amp; domains</b> >	<b>Employment (1)</b> Sort
Verified email addresses	<b>University of South Bohemia in České Budějovice: České Budějovice, CZ</b>
salova@prf.jcu.cz	2024-06-01 to present   researcher (Laboratory of Archaeobotany and Palaeoecology, Faculty of Science) <a href="#">Show more detail</a>
<b>Websites &amp; social links</b> >	Source: Julia Salova
Researchgate	<b>Works (11)</b> Sort
<b>Other IDs</b> >	<b>When Barley and Wheat Meet Millet: Cereal Cultivation Patterns in the Forest and Forest-Steppe of Eastern Europe from the Early Iron Age to the Early Middle Ages</b>
Scopus Author ID: 57475682200	Interdisciplinaria Archaeologica - Natural Sciences in Archaeology 2024-09-13   Journal article DOI: 10.24516/iansa.2024.2.3 Part of ISSN: 1804-848X Part of ISSN: 2336-1233 CONTRIBUTORS: Julia Salova; Leonid Vyazov; Jaromír Beneš <a href="#">Show more detail</a>

Major river plain. Zones by

## Findable

F2. Data are described with rich metadata (defined by R1)

Collection-level metadata



### ADS Checklist for Depositing Form

#### Collection-level metadata for data deposited with the ADS

Please complete this form as fully as possible with details of your collection. This data will form the basis of an entry about your collection in the ADS Catalogue, and underpins the computerised searching process that allows users to discover and retrieve information easily.

Please ensure that all data submitted is GDPR compliant. If you have any questions regarding this, please contact us.

**Early DOI?** Please note that all information submitted in this form is final once the DOI is created. Any changes after that point will require a new DOI.

<b>1. Project Name</b>	The name (and any alternatives) for the collection being deposited. This name should be meaningful as it will form part of the discovery metadata for your collection. This will also be the title which appears in the collections interface and under which the deposit licence is signed.
------------------------	--

Gatehouse Project, Pontefract Castle: Community Archaeology Project

<b>2. Introduction</b>	A brief summary (200-500 words) of the main aims and objectives of the project that resulted in your data collection. This will appear on the first page of the interface for your collection.
------------------------	--

This collection comprises project data (site reports, finds reports, school workshop resources, images, spreadsheets, 3D models, video and site records) from a community focused archaeological investigation at Pontefract Castle undertaken by DigVentures between October 2019 and August 2020.

The archaeological excavation took place over three phases:

- i. Three weeks of hand and machine excavation by a team of professional archaeologists.
- ii. A two-week programme of excavation, recording and finds processing involving members of the local community.
- iii. A three-week targeted investigation to excavate the full stratigraphic sequence within the previously identified drawbridge pit. This phase of work comprised hand excavation of sealed deposits exclusively within the drawbridge pit and was completed by a team of professional archaeologists.

The overarching aim of the archaeological excavation was to define and characterise the physical extent of the site through a scheme of non-intrusive and intrusive investigations combined with an integrated public engagement programme at its core. This approach enabled the collection of baseline data to facilitate its future management, research, presentation and enjoyment. The goal of this work was to fully record, analyse and report all archaeological remains within the area of interest ('preservation by record'); to place the results of this work in the public domain by publishing the results; and to inform how the Gatehouse might be presented to the public. This overarching aim was sub-divided into four aims.

**Aim 1: Identify the physical extent and character of the archaeological remains on the site with**

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F2. Data are described with rich metadata (defined by R1)

Dublin Core Metadata Element Set



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### Data from the Gatehouse Community Archaeology Project at Pontefract Castle, Pontefract, West Yorkshire, 2019–2020

DigVentures, 2024. <https://doi.org/10.5284/1113009>. [How to cite using this DOI](#).

Explore this collection:

- Introduction
- Overview
- Downloads
- Collection Metadata**
- Usage Statistics

#### Collection Metadata

Project Location

Collection Information

DOI	<a href="https://doi.org/10.5284/1113009">https://doi.org/10.5284/1113009</a>
Collection ID	1005719
Collection Title	Data from the Gatehouse Community Archaeology Project at Pontefract Castle, Pontefract, West Yorkshire, 2019–2020
Description	This collection comprises project data (site records, reports, finds data, specialist reports, school activity resources, images, illustrations, spreadsheets, 3D models, and a video) from a community focused archaeological investigation at Pontefract Castle undertaken by DigVentures between October 2019 and August 2020.
Collection Dates	First Released 24-Jun-2024
Creator	DigVentures
Contributors	<ul style="list-style-type: none"> <li>Indie Jago, DigVentures</li> <li>Johanna Ungemach, DigVentures</li> <li>Nat Jackson, DigVentures</li> <li><a href="#">Chris Casswell</a>, DigVentures</li> </ul>
Version	1

## Findable

F2. Data are described with rich metadata (defined by R1)

Rich qualitative and technical metadata for all digital objects.

Templates provided to ensure consistency.

1 General Metadata	
Element	Description
1.1 Project Name	PON19
1.2 Monument / Object Name	Pontefract Castle, Drawbridge pit
7 Model (per mesh / OBJ)	
Documentation for 'final' 3D objects	
Element	Description
7.1 Model Name	2019_PostEx_MOD1.obj
7.2 Software Used	AgiSoft Metashape, Version 1.7.0 build 11736
7.3 Source File(s)	PON19_MOD01_CAM01_0017_2019-11-03.jpg,
7.4 Point cloud decimation? (pre-meshing)	NO
7.5 Hole filling	NO
7.6 Smoothing	NO
7.7 Data reduction	NO
7.8 RGB colour or texture included?	YES - 2019_PostEx_MOD1.jpg
7.9 Number of Triangles or Polygons	99,999
7.1 Number of Vertices	299,997
7.11 Validated as Watertight	YES
7.12 Additional Processing Notes	
7.13 Healing/Despiking	NO
7.14 Coordinate System Used / Adjusted	NO
7.15 Scale	If scale used, what is represented by 1 unit
7.16 Creators	Chris Casswell
7.17 Copyright Holders	DigVentures
7.18 Model Description	Undecimated 3D model

> ... 1 General Metadata 3 Photography - Camera 7 Model +

## Findable

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## Findable

F2. Data are described with rich metadata (defined by R1)

All metadata is displayed alongside data, with technical metadata downloadable in open formats.

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Explore this collection:

- Introduction
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### Downloads

[+ BACK TO DOWNLOADS](#)

#### Model 1



Photogrammetry of Model 1: Post-excavation of Trench 1 at end of 2019 excavations.

**3D Preview**



Powered by [3DHOP](#)

**Files**

Pontefract Castle, Drawbridge Pit, Model 1		
Filename	MOD1_Model.zip (21 MB)	 <a href="#">Info</a> <a href="#">Download</a>
Description	Model 1, Post-excavation of Trench 1 at end of 2019 excavations	
Pontefract Castle, Drawbridge Pit, Model 1, source images		
Filename	MOD1_Photos.zip (2659 MB)	 <a href="#">Info</a> <a href="#">Download</a>
Description	723 source images for Model 1, Post-excavation of Trench 1 at end of 2019 excavations	

## Findable

F2. Data are described with rich metadata (defined by R1)

All metadata is displayed alongside data, with technical metadata downloadable in open formats.

The screenshot displays the ADS website interface for a digital object. The top navigation bar includes 'ads Archaeology Data Service', 'Search data', 'ADS-EASY Deposit data', 'Help & guidance', 'News & events', 'Blog', and 'About'. A sidebar on the left offers navigation options: 'Explore this collection', 'Introduction', 'Overview', 'Downloads', 'Collection Metadata', and 'Usage Statistics'. The main content area is titled 'Digital Object Metadata' and features a header for 'Pontefract Castle, Drawbridge Pit, Model 1' with the object ID '2700724' and a 'PHOTOGRAMMETRY' icon. Below this, a 'Digital Object Information' table lists details such as the title, description, year created (2020), and creator (Chris Casswell). A 'Content and Subject Information' table provides further context, including the data type (Photogrammetry), language (English), subject (Pontefract Castle, archaeology), periods (Medieval), location (West Yorkshire, England, Pontefract), and coordinates (OSGB: 446048 422242). The 'File Information' table at the bottom details the file name (MOD1\_Model.zip), format (ZIP), format type (ZIP Format), file size (21.72 Mb), checksum, and last modified date (11-Jun-2024). A 'Download File' button is visible next to the file information. The page also includes a 'Description' section at the bottom, partially visible, and a 'BACK TO COLLECTION DOWNLOADS' link at the top right.

Digital Object Information	
Object ID	2700724
Title	Pontefract Castle, Drawbridge Pit, Model 1
Description	Model 1, Post-excavation of Trench 1 at end of 2019 excavations
Year Created	2020
Creator	Chris Casswell

Content and Subject Information	
Data Type	Photogrammetry
Language	English
Subject	Pontefract Castle archaeology
Periods	Medieval
Location	Pontefract Castle West Yorkshire England Pontefract
Coordinates	OSGB: 446048 422242

File Information	
File name	MOD1_Model.zip
Format	ZIP
Format type	ZIP Format
File size	21.72 Mb
Checksum	7dc0f351ce241f779571f1bdb2842fcd
Last modified	11-Jun-2024

**Download File**

Description: 7/23 source images for Model 1, Post-excavation of Trench 1 at end of 2019 excavations



## Findable


F3. Metadata clearly and explicitly include the identifier of the data they describe

Persistent identifiers displayed, alongside data, within each archive interface.

Additional identifiers that link to external repositories, agencies or resources (physical and digital).

**Archived Metadata for Download**

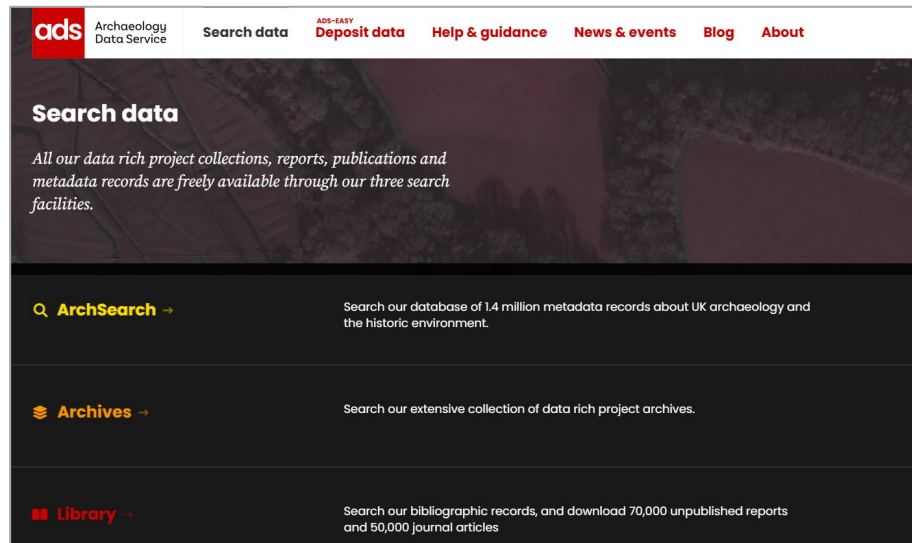
Download the metadata file(s) for this object, submitted as part of the collection. Please note that this deposited metadata may also contain metadata for associated files, or files of the same data type from this collection.

3D metadata			
Filename	PON19_3D_metadata.xlsx (45 Kb)	 XLSX	<a href="#">Info</a> <a href="#">Download</a>

## Findable

F4. (Meta)data are registered or indexed in a searchable resource

ADS datasets are findable through ADS's own indexes and catalogues, **but** data will only be as findable as the quality of the metadata provided.



The screenshot shows the top navigation bar of the Archaeology Data Service website. The navigation bar includes the ADS logo, the text 'Archaeology Data Service', and several menu items: 'Search data', 'Deposit data', 'Help & guidance', 'News & events', 'Blog', and 'About'. Below the navigation bar is a dark banner with the text 'Search data' and a paragraph: 'All our data rich project collections, reports, publications and metadata records are freely available through our three search facilities.' Below the banner are three search options, each with an icon and a description:

- ArchSearch** → Search our database of 1.4 million metadata records about UK archaeology and the historic environment.
- Archives** → Search our extensive collection of data rich project archives.
- Library** → Search our bibliographic records, and download 70,000 unpublished reports and 50,000 journal articles

## Findable

F4. (Meta)data are registered or indexed in a searchable resource

ADS collections are also available through external catalogues:

- ARIADNE Portal
- Heritage Gateway
- DataCite
- The Keepers Registry
- Natural Environment Research Council (NERC) data discovery portal
- Marine Environmental Data and Information Network (MEDIN) data portal
- Europeana

The image shows a screenshot of the ARIADNE Research Infrastructure website. At the top, the logo features a stylized 'A' made of overlapping squares in yellow, blue, and red, followed by the word 'ARIADNE' in large, red, outlined letters, and 'Research Infrastructure' in a smaller, teal font below it. Below the logo is a navigation bar with radio buttons for 'All fields', 'Time period', 'Place', 'Title', and 'Getty AAT Subject', along with a help icon. A search bar contains the text 'Glass Bottles from Roman Britain'. Below the search bar, a search result is displayed with the title 'Blue/green glass bottles from roman britain: square and other prismatic forms: project database, bibliography, figures, and photographs' and the text 'Found in: Getty AAT Subjects, Description, Title, Dating, Original subject'. Below this, another search result is partially visible with the title 'Roman glass bottles and pottery'. The bottom portion of the screenshot shows a map of Europe with a red box highlighting the British Isles. Below the map, there is a metadata section for the search result, including a description, metadata (Original ID: https://doi.org/10.5284/1117194, Landing page: https://doi.org/10.5284/1117194, Language: English), and resource links (View resource at provider, JSON, XML, RDF, Cite, Report an issue). There is also a 'Resource is part of' section listing 'ADS Archives' and a 'Thematically similar' section with a dropdown menu for 'Subject & Time period' and two related resources: 'WORTH ROMAN TEMPLE' and 'CROWN QUARRY (SITE 8)'.

## Findable

F4. (Meta)data are registered or indexed in a searchable resource

ADS collections are also available through external catalogues:

- ARIADNE Portal
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- DataCite
- The Keepers Registry
- Natural Environment Research Council (NERC) data discovery portal
- Marine Environmental Data and Information Network (MEDIN) data portal
- Europeana

The screenshot shows the ARIADNE website interface. At the top, the 'ads Archaeology Data Service' logo is on the left, and navigation links for 'Search data', 'Deposit data', 'Help & guidance', 'News & events', 'Blog', and 'About' are on the right. The main content area features a search result for 'Blue/Green Glass Bottles from Roman Britain: Square and Other Prismatic Forms: Project Database, Bibliography, Figures, and Photographs' by H. E. M. Cool, Barbican Research Associates, 2023. Below the title, there is an 'Introduction' section with a sidebar menu containing 'Introduction', 'Downloads', 'Collection Metadata', and 'Usage Statistics'. The introduction text describes the collection's focus on blue/green glass bottles from Roman Britain. To the right of the text is a 'Base rubbing of Bottle ID 1' image. At the bottom, there are sections for 'Description', 'Metadata' (including DOI and landing page), and 'Resource is part of' (listing ADS Archives, Thematically similar resources, and specific sites like WORTH ROMAN TEMPLE and CROWN QUARRY (SITE 8)).

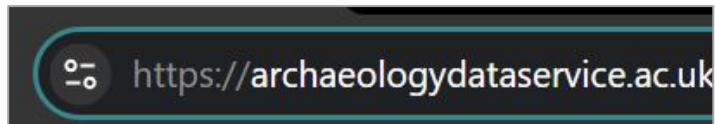
# Accessible

- A1. (Meta)data are retrievable by their identifier using a standardised communications protocol
- A2. Metadata are accessible, even when the data are no longer available

## Accessible

A1. (Meta)data are retrievable by their identifier using a standardised communications protocol.

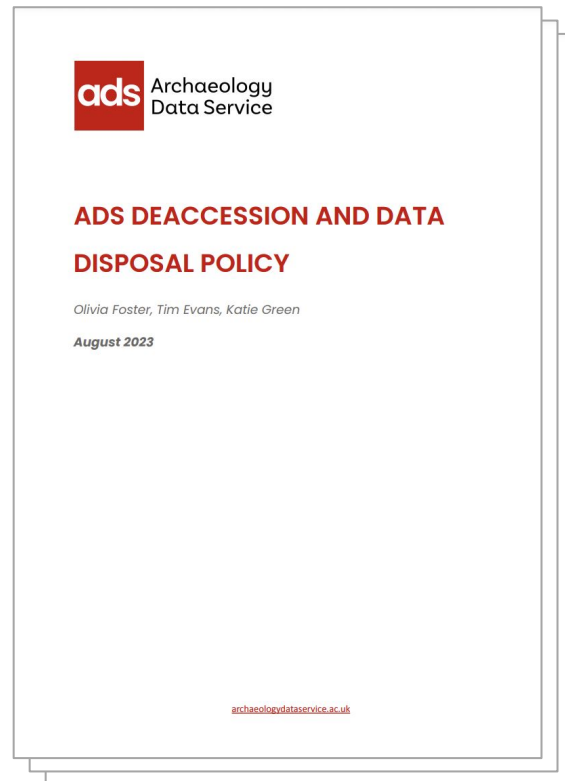
- A1.1 The protocol is open, free, and universally implementable
  - HTTPS (Hypertext Transfer Protocol Secure)
  - Other exchange services 'on request'.
- A1.2 The protocol allows for an authentication and authorisation procedure, where necessary
  - SSL/TLS Encryption and Authentication



## Accessible

A2. Metadata are accessible, even when the data are no longer available

- Datasets and metadata maintained in perpetuity.
- If datasets are removed from the archives holdings, ADS is committed to supporting identifiers (DOIs), maintaining resource discovery metadata, and updating current information on resources.



# Interoperable

- I1. (Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
- I2. (Meta)data use vocabularies that follow FAIR principles
- I3. (Meta)data include qualified references to other (meta)data



## Interoperable

11. (Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation

- Resource discovery metadata is made available using a qualified Dublin Core in RDF/XML through the ADS Linked Data repository.
- External services can consume and disseminate metadata.

## Interoperable

- I2. (Meta)data use vocabularies that follow FAIR principles Use a variety of sustainable, open vocabularies to qualitatively classify and identify resources and datasets.
- Utilises recognised technical vocabularies to denote and categorise preservation activities

Heritage Data  
Linked Data Vocabularies for Cultural Heritage

**LIBRARY**  
LIBRARY  
OF CONGRESS

**MEDIN**  
marine environmental  
data & information network

Linked-  
Open data  
GETTY VOCABULARIES

**P R E M I S** PRESERVATION METADATA  
MAINTENANCE ACTIVITY

## Interoperable

### 13. (Meta)data include qualified references to other (meta)data

- The ADS supports the qualified referencing with and between publications, datasets and resources. Where available the repository uses sustainable referencing, e.g. DOIs.

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[BACK TO ARCHIVES SEARCH](#)

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DigVentures, 2024. <https://doi.org/10.5284/1113009>. [How to cite using this DOI](#).

Explore this collection:


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#### Introduction

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The archaeological excavation took place over three phases:

- **Phase I.** Three weeks of hand and machine excavation by a team of professional archaeologists.
- **Phase II.** A two-week programme of excavation, recording and finds processing involving members of the local community.



Volunteers removing material from drawbridge pit. From left to right: Billy, Hannah, Lee, Nat, Ben, Rosie.

#### Relationships

##### Related Resources

This collection has **4** related resources.

##### This collection 'Is Derived From':

Gatehouse Project, Pontefract Castle (OASIS ID: digventul-347513)

##### This collection 'Is Supplemented By':

Jago, I. and Forster, M. 2023 Archaeological Excavations and Social Impact at Pontefract Castle (data paper), Internet Archaeology 61. (DOI: <https://doi.org/10.1114/ia.61.9>)

Jackson, N., Casswell, C. and Forster, M. 2023 A Medieval Drawbridge Pit and the Stories it Tells Us, Excavations at Pontefract Castle, 2019–2020, Internet Archaeology 61. (OASIS ID: <https://doi.org/10.1114/ia.61.4>)

Wilkins, B., Casswell, C., Eno, M., Harris, J., Pina-Dacier, M., Tatton, H. and Ungemach, J. 2021 Social Impact Archaeology: Pontefract Castle and the Gatehouse Project, Internet Archaeology 57. (DOI: <https://doi.org/10.1114/ia.57.18>)

# Reusable

R1. (Meta)data are richly described with a plurality of accurate and relevant attributes

- R1.1. (Meta)data are released with a clear and accessible data usage license
- R1.2. (Meta)data are associated with detailed provenance
- R1.3. (Meta)data meet domain-relevant community standards

## Reusable

R1. Meta(data) are richly described with a plurality of accurate and relevant attributes

R1.1. (Meta)data are released with a clear and accessible data usage license

- Clearly define the terms of access and reuse (collection interface and metadata records)
- Creative Commons Attribution 4.0 licence (CC-BY 4.0) or other licences on request.

Access and Rights	
Cite As	DigVentures (2024) <i>Data from the Gatehouse Community Archaeology Project at Pontefract Castle, Pontefract, West Yorkshire, 2019–2020</i> [data-set]. York: Archaeology Data Service [distributor] <a href="https://doi.org/10.5284/1113009">https://doi.org/10.5284/1113009</a>
Copyright	Data copyright © DigVentures unless otherwise stated.
Licence	This work is licensed under a <a href="#">Creative Commons Attribution 4.0 International License</a> .
Primary Contact	DigVentures 27–33 Bethnal Green Road Shoreditch London E1 6LA Email: <a href="mailto:hello@digventures.com">hello@digventures.com</a>
Metadata Contact	ADS: <a href="mailto:help@archaeologydataservice.ac.uk">help@archaeologydataservice.ac.uk</a>

## Reusable

R1. Meta(data) are richly described with a plurality of accurate and relevant attributes

- R1.2. (Meta)data are associated with detailed provenance
  - Provide detailed provenance metadata for all data. At a collection level this is expressed in the archive interface and discovery metadata, at file level within the technical metadata disseminated alongside the data.

## Reusable

R1. Meta(data) are richly described with a plurality of accurate and relevant attributes

- R1.3. (Meta)data meet domain-relevant community standards
  - Dublin Core metadata for collection level metadata.
  - Data must be accompanied by appropriate, file specific 'technical' metadata derived from recognised community standards and standardised templates provided to ensure consistency.
  - All (meta)data is accepted, preserved and disseminated in sustainable, open formats.
  - Use appropriate vocabularies to qualitatively describe datasets and document preservation actions.

# Reusable

## ADS Checklist for Depositing Form

### Collection-level metadata for data deposited with the ADS

Please complete this form as fully as possible with details of your collection. This data will form the basis of an entry about your collection in the ADS Catalogue, and underpins the computerised searching process that allows users to discover and retrieve information easily.

Please ensure that all data submitted is GDPR compliant. If you have any questions regarding this, please contact us.

**Early DOI?** Please note that all information submitted in this form is final once the DOI is created. Any changes after that point will require a new DOI.

**1. Project Name** The name (and any alternatives) for the collection being deposited. This name should be meaningful as it will form part of the discovery metadata for your collection. This will also be the title which appears in the collections interface and under which the deposit licence is signed.

Gatehouse Project, Pontefract Castle: Community Archaeology Project

**2. Introduction** A brief summary (200-500 words) of the main aims and objectives of the project that resulted in your data collection. This will appear on the first page of the interface for your collection.

This collection comprises project data (site reports, finds reports, school workshop resources, images, spreadsheets, 3D models, video and site records) from a community focused archaeological investigation at Pontefract Castle undertaken by DigVentures between October 2019 and August 2020.

The archaeological excavation took place over three phases:  
 I. Three weeks of hand and machine excavation by a team of professional archaeologists.  
 II. A two-week programme of excavation, recording and finds processing involving members of the local community.  
 III. A three-week targeted investigation to excavate the full stratigraphic sequence within the previously identified drawbridge pit. This phase of work comprised hand excavation of sealed deposits exclusively within the drawbridge pit and was completed by a team of professional archaeologists.

The overarching aim of the archaeological excavation was to define and characterise the physical extent of the site through a scheme of non-intrusive and intrusive investigations combined with an integrated public engagement programme at its core. This approach enabled the collection of baseline data to facilitate its future management, research, presentation and enjoyment. The goal of this work was to fully record, analyse and report all archaeological remains within the area of interest (preservation by record); to place the results of this work in the public domain by publishing the results; and to inform how the Gatehouse might be presented to the public. This overarching aim was sub-divided into four aims.

**Aim 1: Identify the physical extent and character of the archaeological remains on the site with**



For General Enquiries and Issues Relating to ADS Entry  
 Email: [help@archaeologydataservice.ac.uk](mailto:help@archaeologydataservice.ac.uk)  
 For Catalogue or information on Depositing Data:  
 Email: [publicinquiries@archaeologydataservice.ac.uk](mailto:publicinquiries@archaeologydataservice.ac.uk)

## Archived Metadata for Download

Download the metadata file(s) for this object, submitted as part of the collection. Please note that this deposited metadata may also contain metadata for associated files, or files of the same data type from this collection.

### 3D metadata

Filename      PONI9\_3D\_metadata.xlsx (45 Kb)



Info

Download

### 7 Model (per mesh / OBJ) Documentation for 'final' 3D objects

Element	Description
<b>7.1 Model Name</b>	2019_PostEx_MOD1.obj
<b>7.2 Software Used</b>	AgiSoft Metashape, Version 1.7.0 build 11736
<b>7.3 Source File(s)</b>	PON19_MOD01_CAM01_0017_2019-11-03.jpg.
<b>7.4 Point cloud decimation? (pre-meshing)</b>	NO
<b>7.5 Hole filling</b>	NO
<b>7.6 Smoothing</b>	NO
<b>7.7 Data reduction</b>	NO
<b>7.8 RGB colour or texture included?</b>	YES - 2019_PostEx_MOD1.jpg
<b>7.9 Number of Triangles or Polygons</b>	99,999
<b>7.1 Number of Vertices</b>	299,997
<b>7.11 Validated as Watertight</b>	YES
<b>7.12 Additional Processing Notes</b>	
<b>7.13 Healing/Despiking</b>	NO
<b>7.14 Coordinate System Used / Adjusted</b>	NO
<b>7.15 Scale</b>	If scale used, what is represented by 1 unit
<b>7.16 Creators</b>	Chris Casswell
<b>7.17 Copyright Holders</b>	DigVentures
<b>7.18 Model Description</b>	Undecimated 3D model

>

...

1 General Metadata

3 Photography - Camera

7 Model

+



## Summary

- How to make data Findable, Accessible and Interoperable are well understood, with examples of well-implemented methodologies and technologies.
- Still a lot of work to do on **Reusable**: Can measure quantitative reuse with web stats, but how to measure qualitative reuse is the next frontier
- FAIR makes each element of equal importance.
- FAIR principles are just a useful lens for understanding your own situation with regard to current best practice.

**What can you do?**

# The FAIR Principles



# The FAIR Principles





C ollective Benefit	For inclusive development and innovation
	For improved governance and citizen engagement
	For equitable outcomes
A uthority to control	Recognising rights and interests
	Data for governance
	Governance of data
R esponsibility	For positive relationships
	For expanding capability and capacity
	For indigenous values and worldviews
E thics	For minimising harm and maximising benefit
	For justice
	For future use

## What are the CARE Principles?

- **Collective Benefit:** Data should benefit the community it represents
- **Authority to Control:** Community control over their own data
- **Responsibility:** Ethical use of data to avoid harm
- **Ethics:** Respect for cultural values and practices

## CARE Principles

- Protect Indigenous and local community rights in archaeology
- Ensure ethical handling of culturally significant data

TK Labels by Local Contexts

Traditional Knowledge and Biocultural





## CARE Principles


TK and BK labels in use:

E Reo Noku – My Language

E Reo Noku, Episode 3 - Nukuroa-Mitiaro

"E Reo Noku" has collaborated with Local Contexts and applied Traditional Knowledge Labels to this film. These are digital markers that define attribution, access, and usage rights for this film.

For more information please visit [www.localcontexts.org](http://www.localcontexts.org)



**TK Attribution**  
TK-AB  
This label asks for future users to attribute the presenters of this film.

**TK Verified**  
TK-V  
This label affirms that the presenters are satisfied with the way they represented and presented in this film.

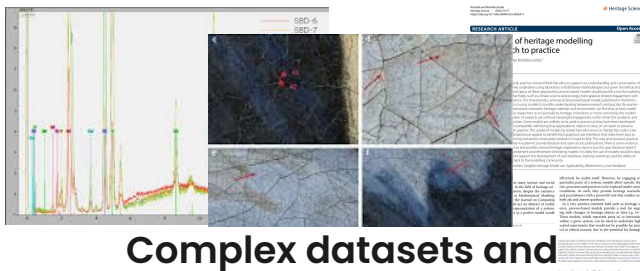
**TK Non-Commercial**  
TK-NC  
This film is available for non-commercial use. It must not be used for economic benefits or used in any way that makes it a commodity for sale or purchase

**TK Outreach**  
TK-OR  
This label is used to indicate that this film can be used for educational purposes

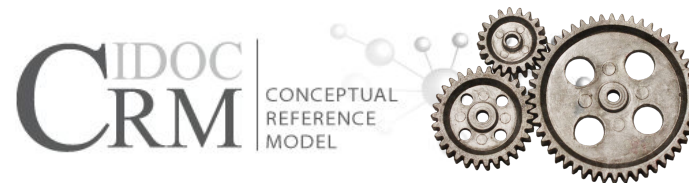
**TK Open to Collaboration**  
TK-OC  
This label indicates that the community is open to collaboration, future engagement and partnership around research opportunities.

31:17 / 31:38 Scroll for details

# Challenges in making Heritage Data FAIR/CARE



**Complex datasets and  
diverse data types**



**Heterogeneity can hinder  
interoperability**

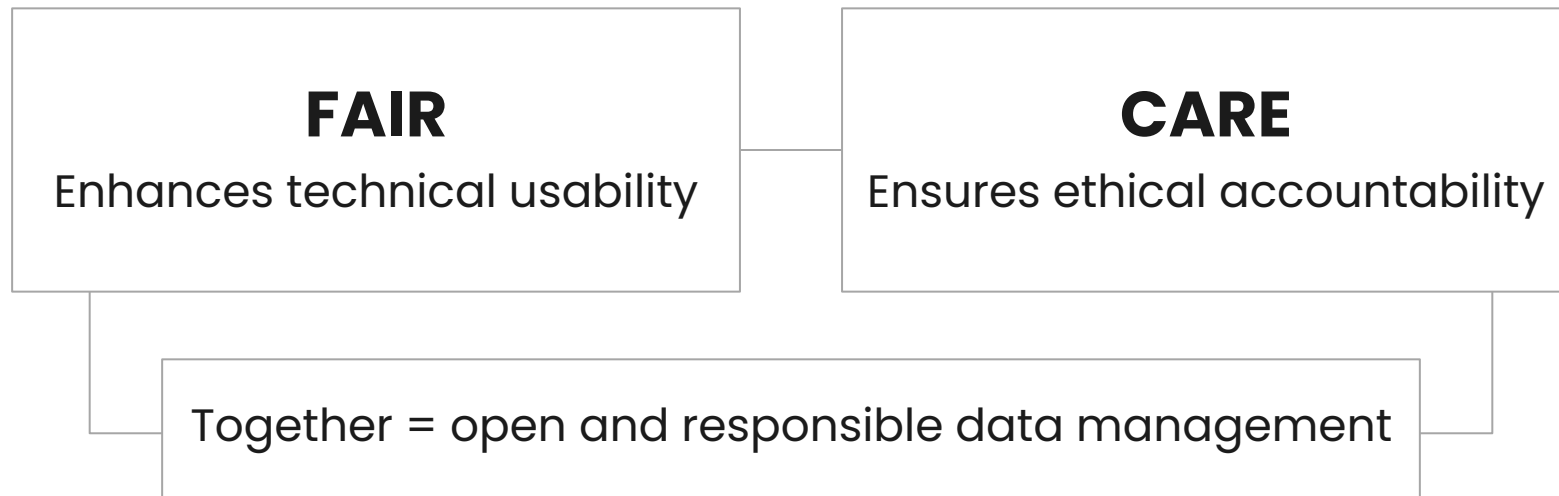


**Resources and technical limitations**



**Cultural sensitivities**

## FAIR and CARE: Complementary frameworks



## FAIR and CARE: Complementary frameworks





Archaeology  
Data Service

**Thank you!**

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**[help@archaeologydataservice.ac.uk](mailto:help@archaeologydataservice.ac.uk)**