ads Archaeology Data Service

High Speed 2 and Unpath'd Waters: Keeping large projects FAIR

By Evelyn Curl, Jamie Geddes and Teagan Zoldoske

Who are we?

ads Archaeology Data Service

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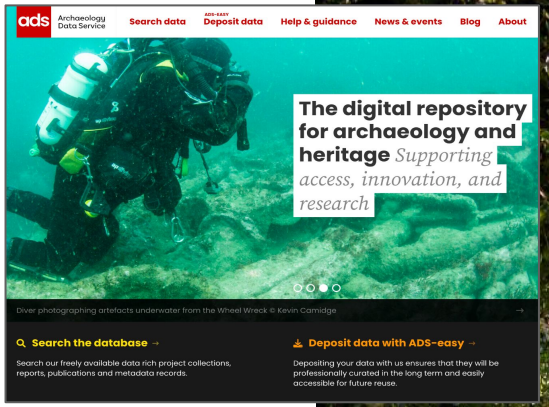

Website © ADS

- Established in 1996
- University of York, UK
- Core Trust Seal Accredited
- 40+ terabytes of data
- Preservation through migration

Image © University of York

How does the ADS promote FAIR principles?

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R1.1. (Meta)data are released with a clear and accessible data usage license - Clearly defined terms of access and reuse within the collection interface and within metadata records. e.g Creative Commons Attribution 4.0 licence (CC-BY 4.0), Open Government License (OGL)

R1.2. (Meta)data are associated with detailed provenance - Provides detailed provenance metadata for all data, both at a collection level and at file level

R1.3. (Meta)data meet domain-relevant community standards - Dublin Core, appropriate linked open data vocabularies e.g UK heritage thesauri (FISH)

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Potential reuse risks for large projects

Risk 1 - Differing metadata standards and lack of documentation for them

Risk 2 - Data deposited a while after creation by people who may not have created the data

Risk 3 - The metadata for datasets can be split up and difficult to condense into a way that is easily reused

Risk 4 - Lack of skills training on open source software and formats and how to export proprietary data

Risk 5 - Not thinking about archiving and reuse from the beginning

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Our Case Study Projects

HS2

High Speed 2 - Data based project

Evelyn

UNPATH'D WATERS

UNPATH'D Waters - metadata aggregation/inventory collections project

Jamie

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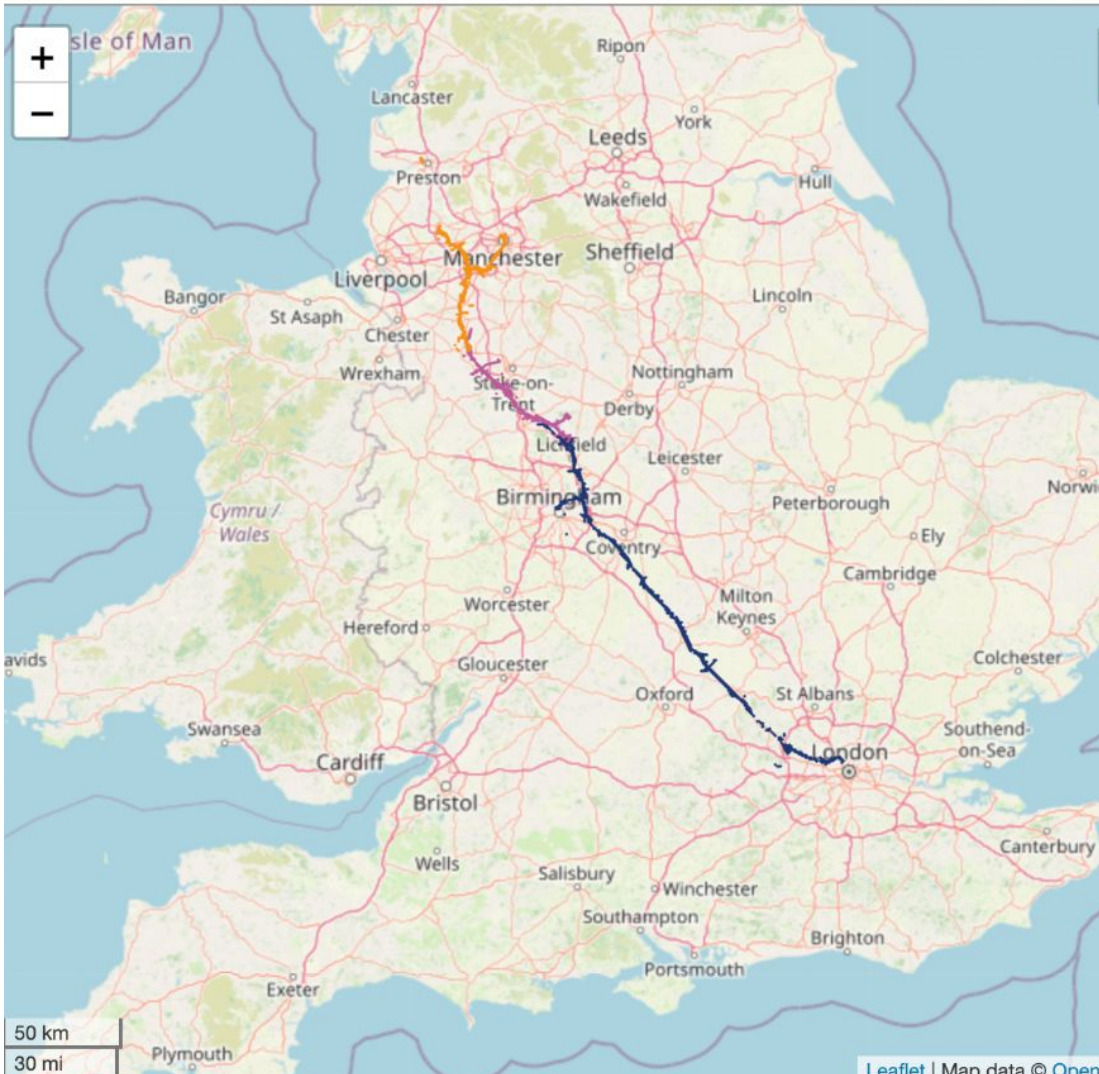
HS2

High Speed Two

- UK's largest linear infrastructure project
- Unprecedented opportunity

Historic Environment Research and Delivery Strategy Objective 03: To develop and deliver a highly accessible archive and outstanding archival legacy that will be actively promoted.



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HS2

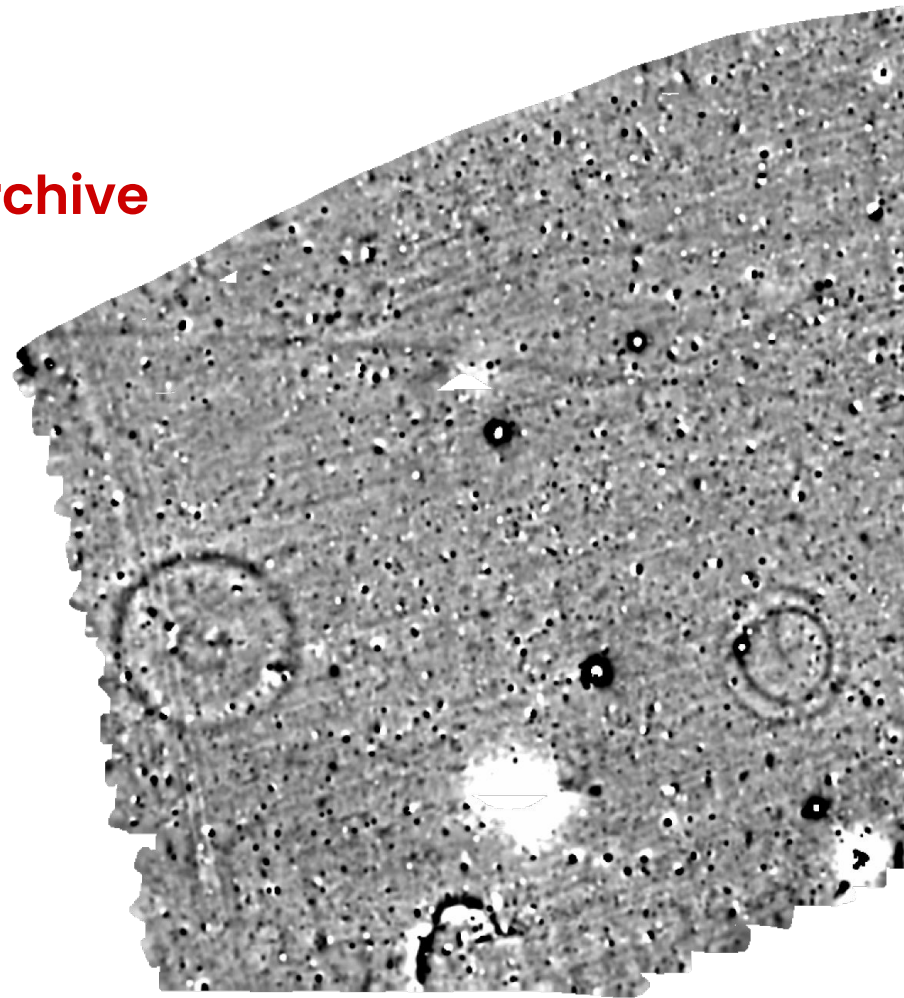
HS2 Historic Environment Digital Archive

15+ TB of data to be submitted

LIDAR, Laser Scans, Photogrammetry, Video, RTI, Databases, CT Scans, X Ray, Documents, Photographs, Geophysics, GPR, Spreadsheets, CAD, GIS, Scientific data.....

ADS deposits 2021-2022

- 622 total archives submitted
- 180 HS2 archives



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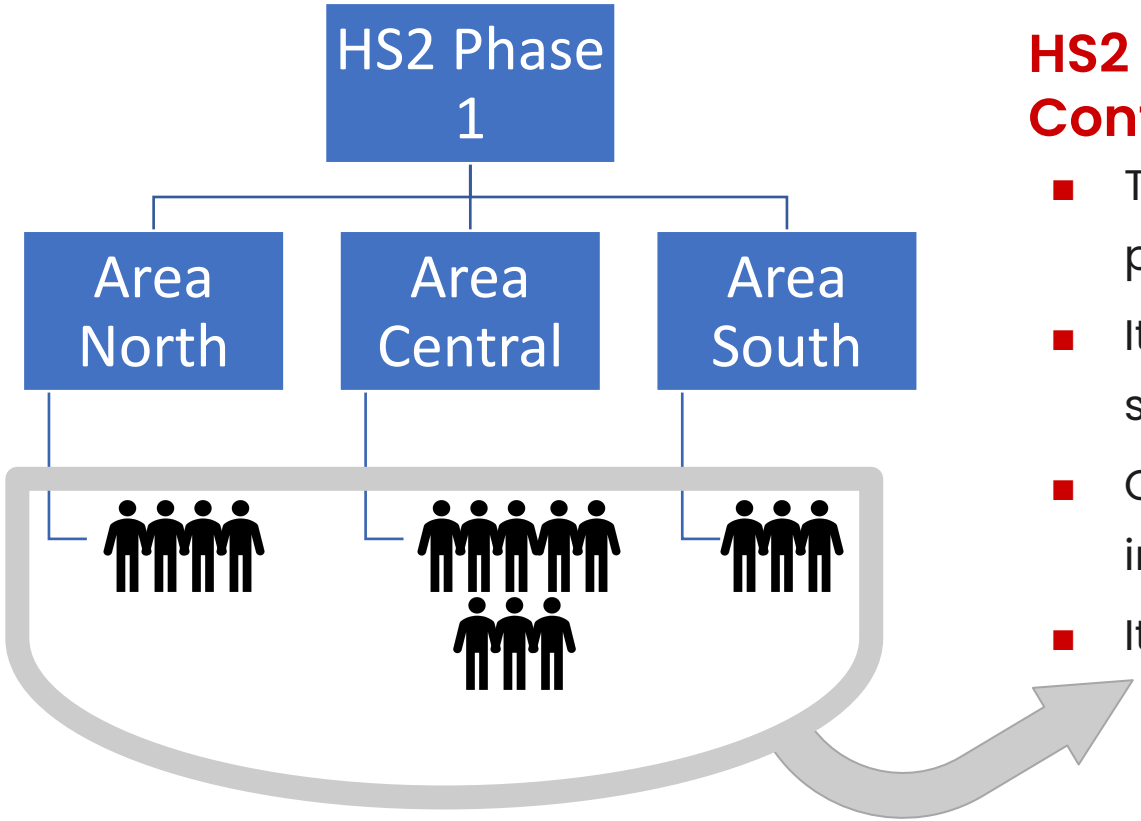

HS2 Hierarchy and Contractors

- The HS2 project is split into phases
- It's then split further into sections
- Contractors work on individual sites
- It all then comes to us

How we will disseminate the data

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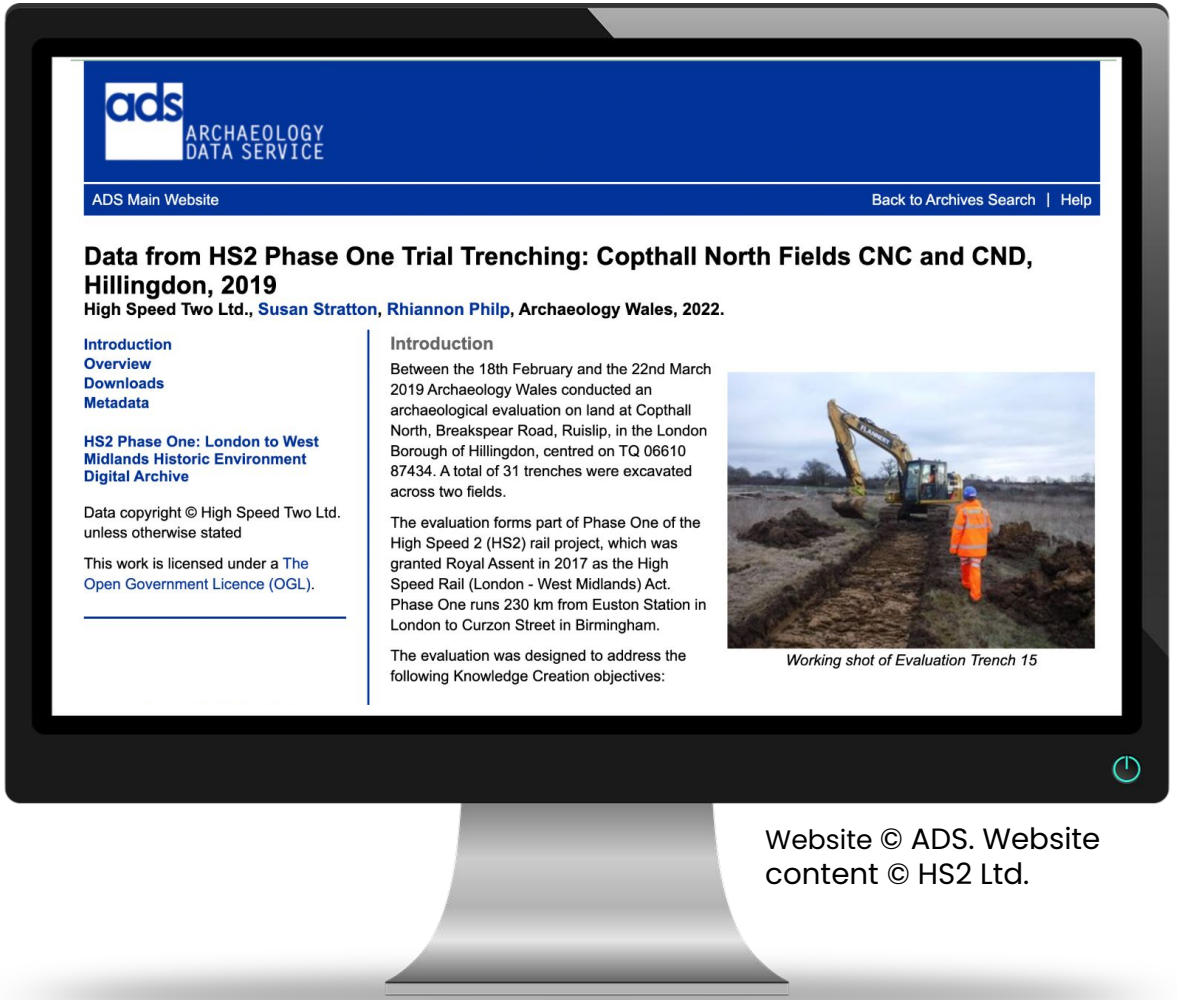
Individual Data Collections



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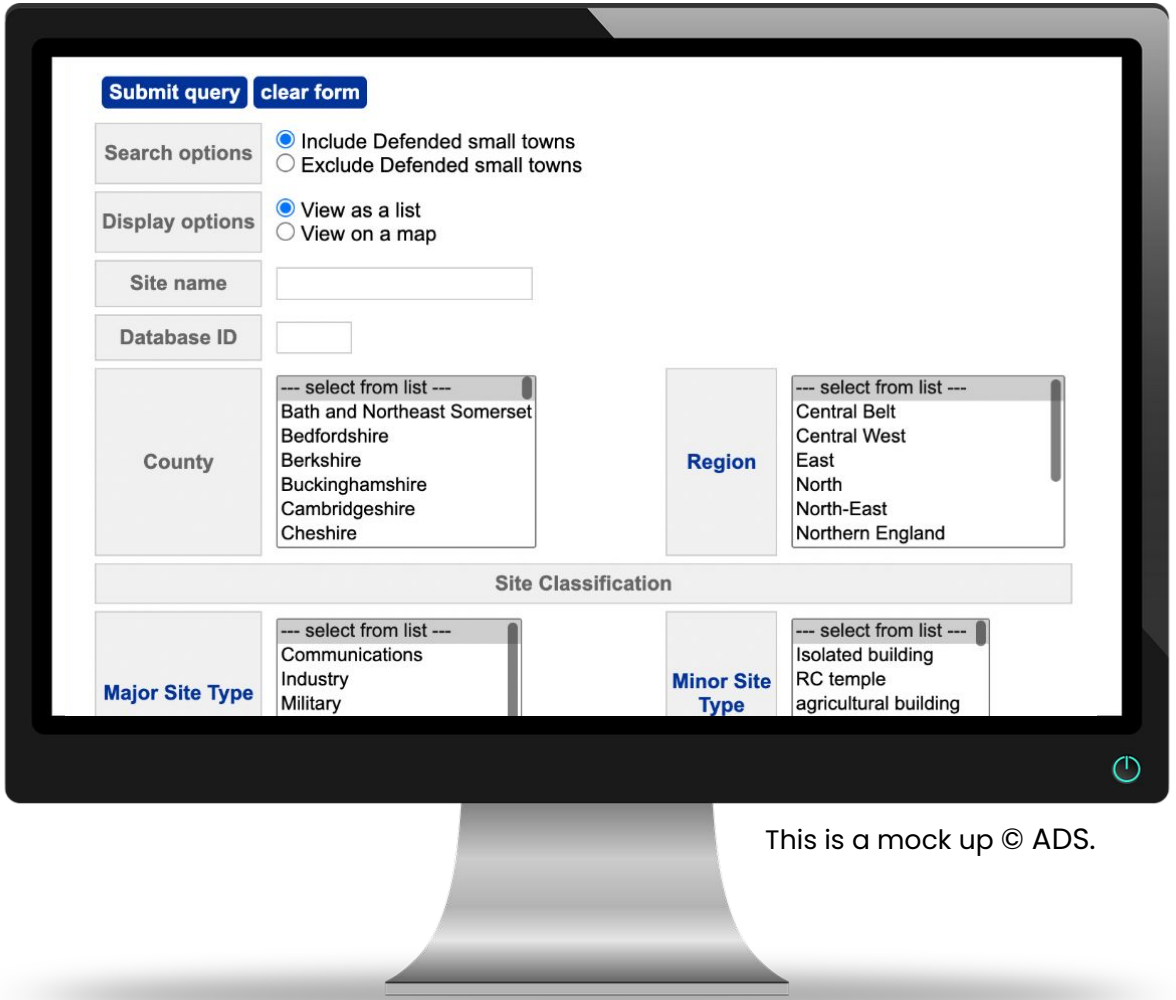
Cross Collection Search



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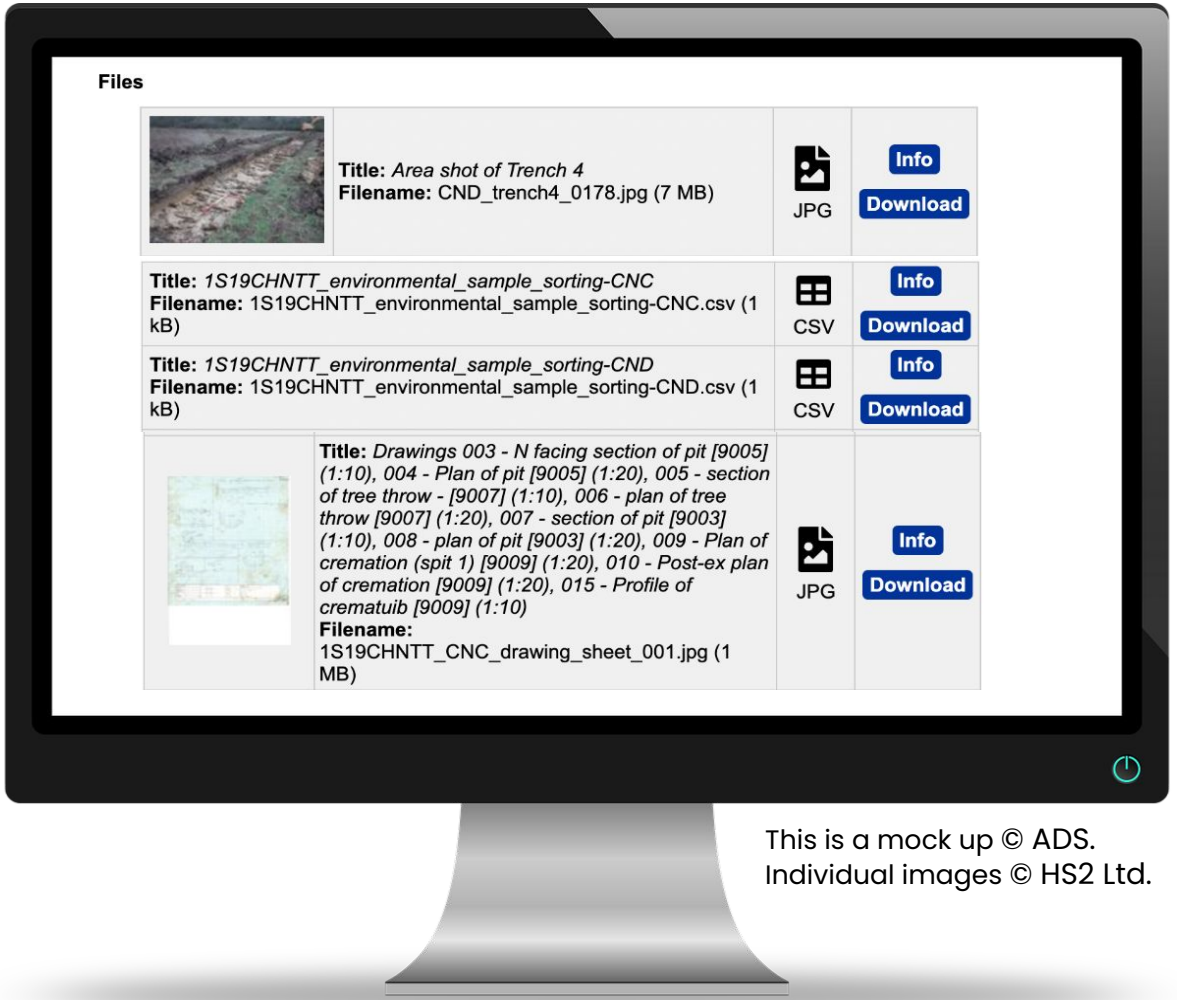
Cross Collection Search



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Interactive Maps

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Data Visualisation

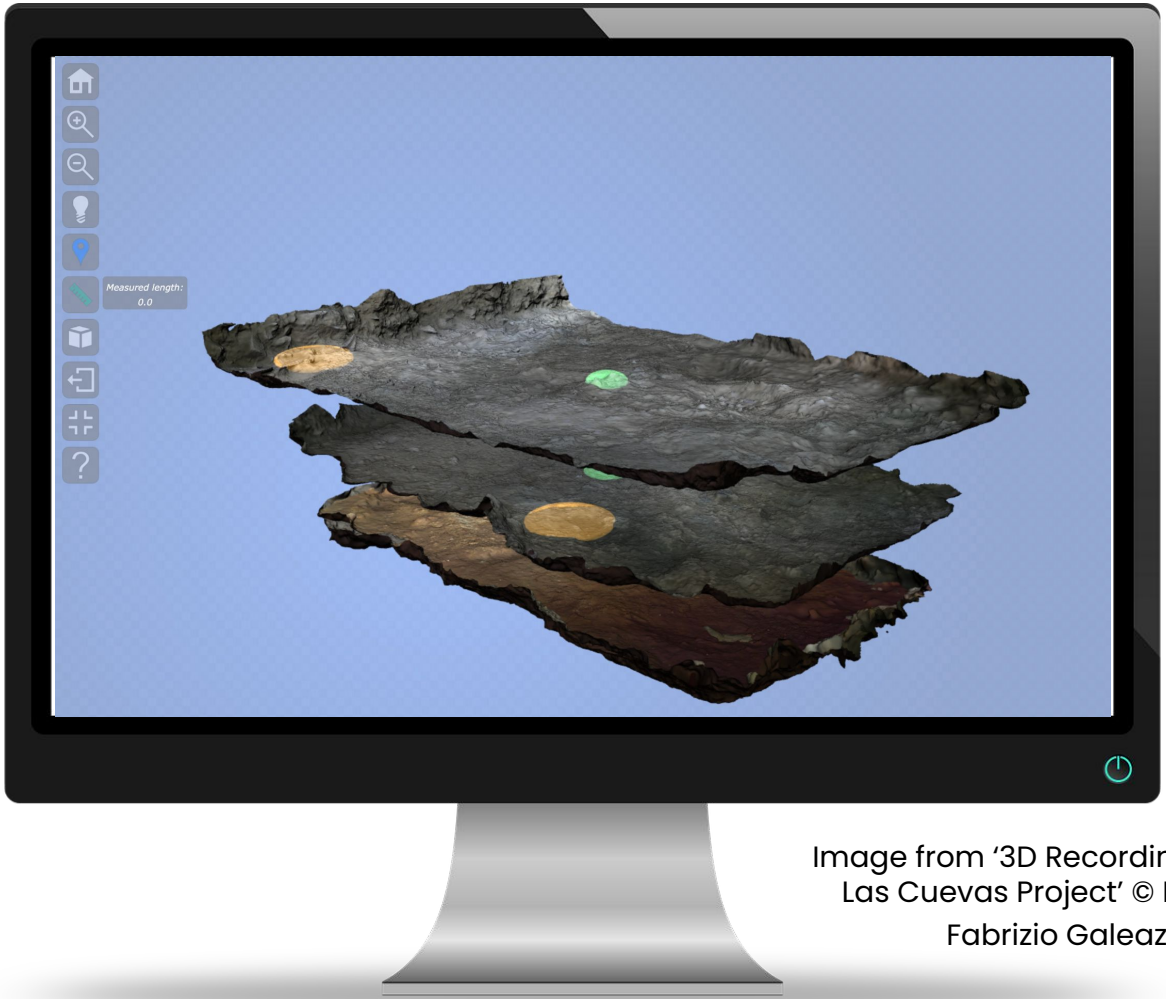

Image from ‘3D Recording Las Cuevas Project’ © Dr Fabrizio Galeazzi.

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Mitigating risks / How does disseminating in this way facilitate reuse?

Archive decision sheets make contractors think about selection/retention leading to higher quality data - educates depositors about what we're actually asking for

Data visualization - allows users without specialist software to access, interrogate and use the data

Cross collection search - richer user experience than individual collection interfaces

Hand accessioning - ensures it's all to the same standard

HS2 standards require rich metadata, leading to an enhanced spatial search

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UNPATH'D Waters

- ground-breaking 3-year research project that aims to unite the UK's maritime collections
- unleash the potential of maritime heritage.

Picture from ADS Isles of Scilly Designated Wrecks Interpretation Data copyright © Kevin Camidge

Support

This work was supported by the Arts and Humanities Research Council [grant number AH/W003384/1]

TOWARDS A NATIONAL COLLECTION

UKRI Arts and Humanities Research Council

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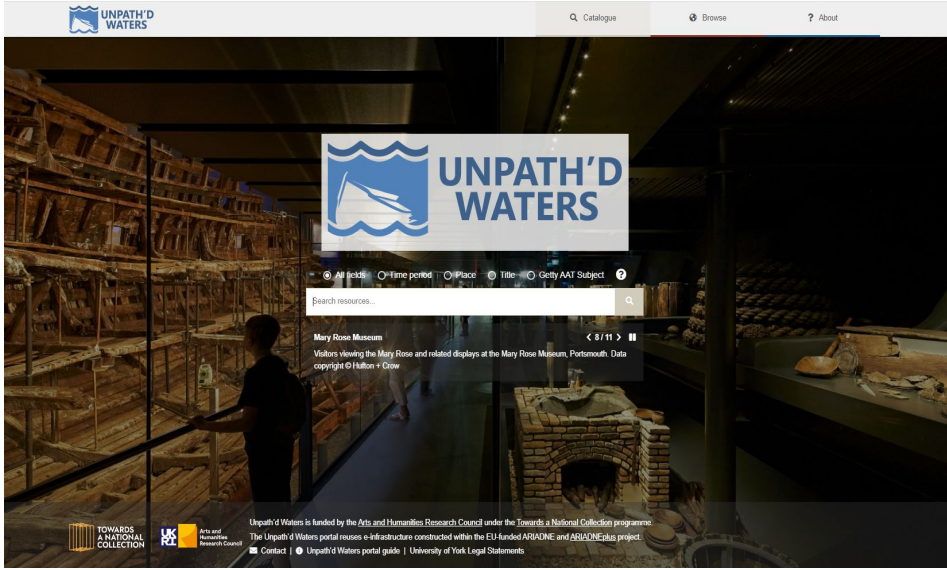
UNPATH'D Portal

- > 86,509 records in the portal as of the moment
- Metadata is the UO-CAT Ontology (CIDOC-CRM) - Subject terms use GETTY AAT term vocabulary
- Key information and Links to resources from provider containing data for reuse such as: Spatial Coordinates, Documents, and Photographs



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Images of all Principal Investigator & Co-Investigators, Collaborator and Partners on the project

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What sort of data is deposited?

- Datasets with thousands of rows of metadata information on objects/collections have been sent to us from different bodies. This data has then been 'wrangled' to adhere to UO-CAT
- Had to deal with many forms of datasets sent in form of excel, json and xhtml. The data was then converted into XML and uploaded into the UNPATH portal

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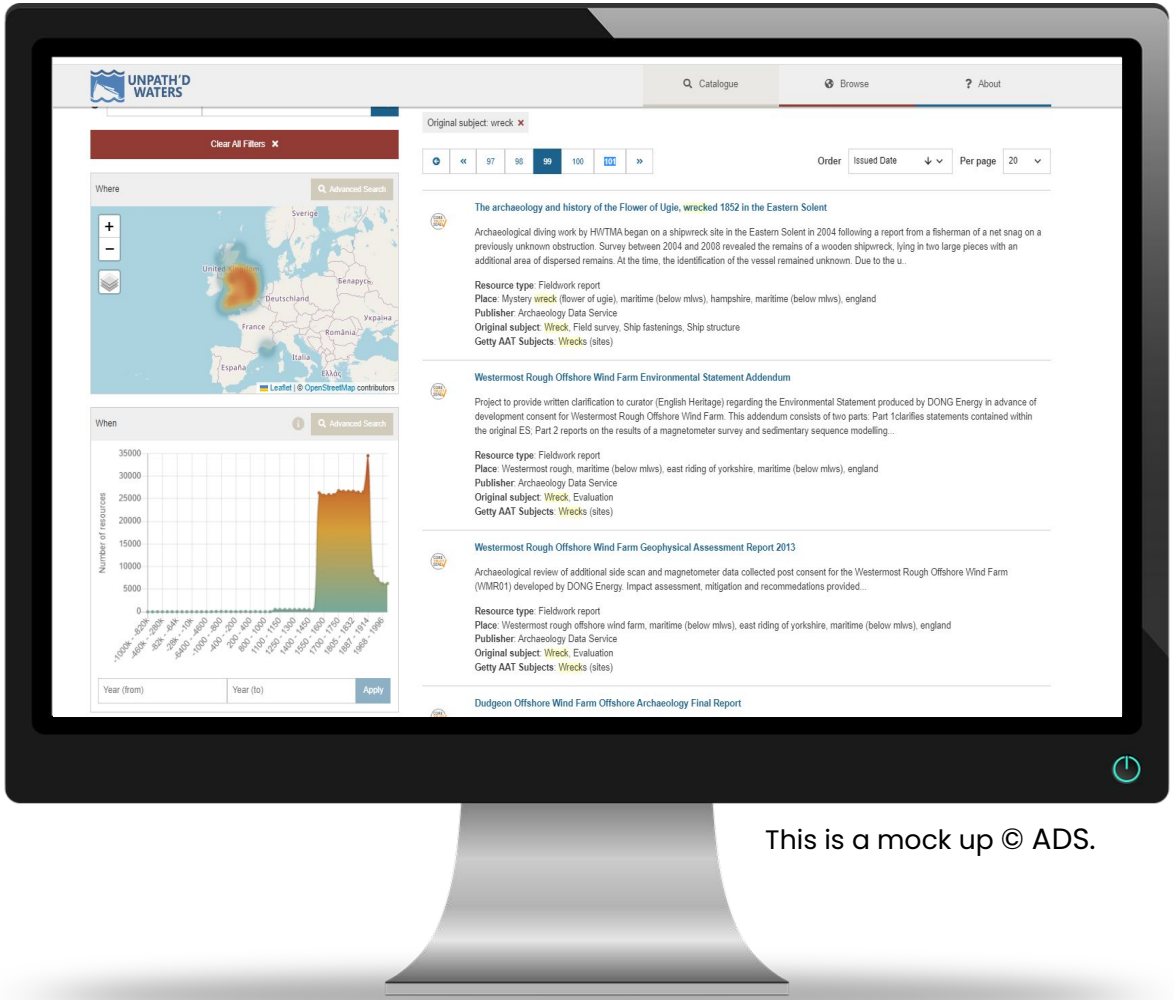
Cross Collections Search



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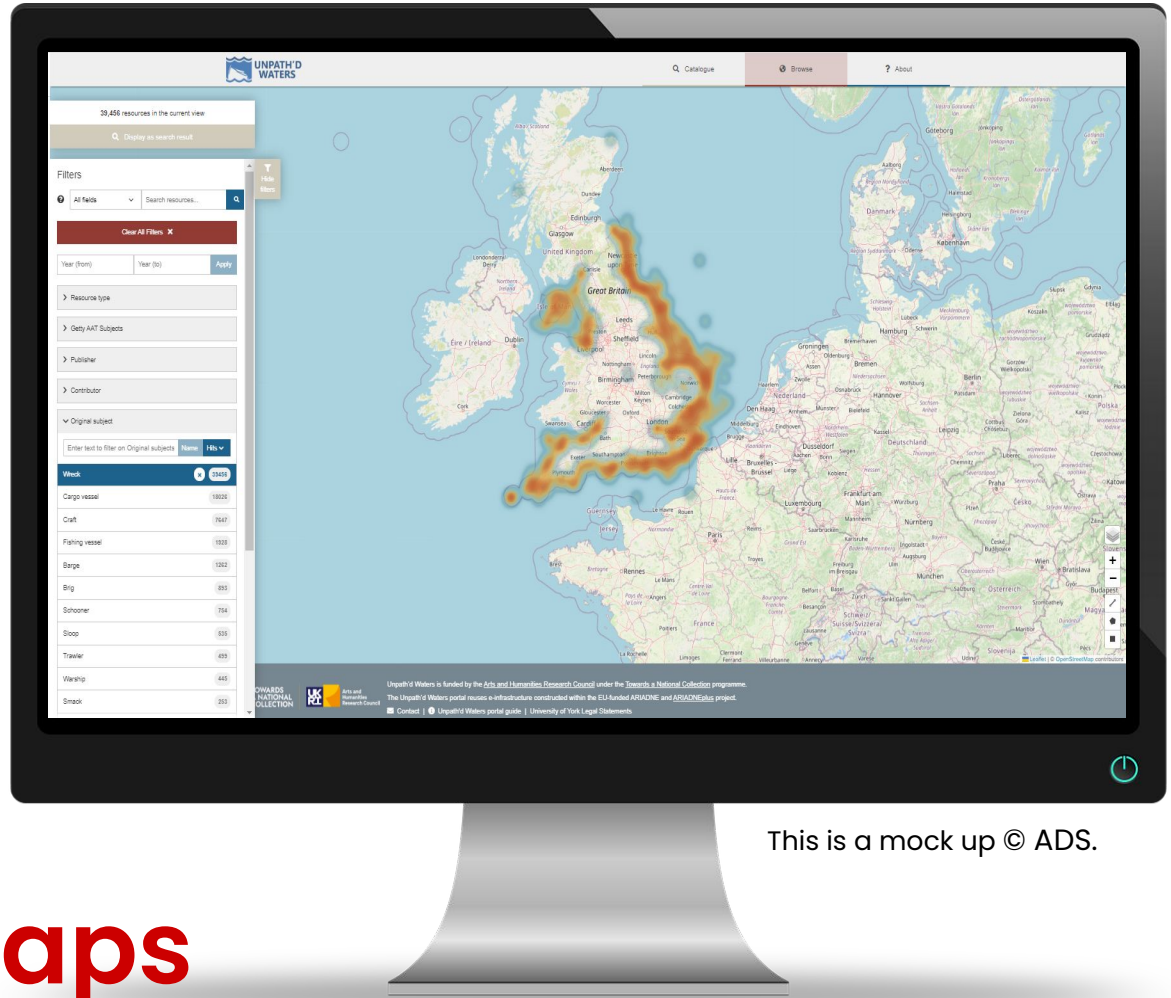

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Interactive Maps

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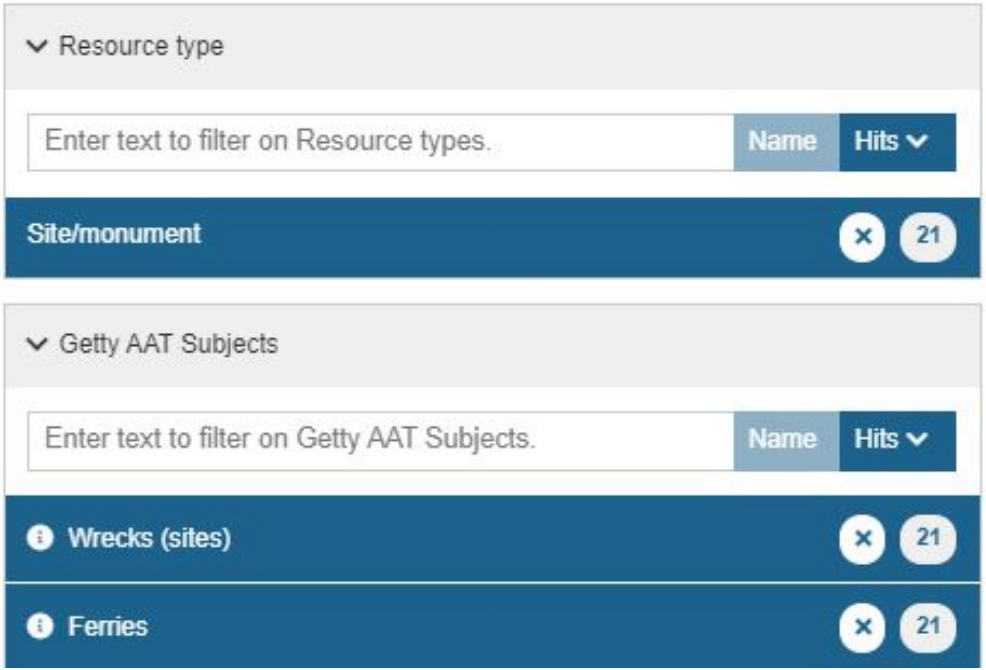

Advanced Filters

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Resource type:

Maritime

Site/monument

Subject - AAT: wrecks (sites) (en)

Subject - Original: Wreck

Metadata Info

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NATIONAL RECORD OF THE HISTORIC ENVIRONMENT

Part of Historic Environment Scotland

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Sir Edward (Possibly): Pentland Skerries, Pentland Firth

Details | Collections (1) | Images

Overview
Collections
Administrative Areas
Archaeology Notes
References
MyCanmore Images
MyCanmore Text

Brig (19th Century)(Possible), Schooner (19th Century)(Possible)

Site Name Sir Edward (Possibly): Pentland Skerries, Pentland Firth

Classification Brig (19th Century)(Possible), Schooner (19th Century)(Possible)

Alternative Name(s) 'On The Pentland Skerry'; North Sea; Muckle Skerry

Canmore ID 282226

Site Number ND47NE 8051

NGR ND 47 77

NGR Description ND c. 47 77

Datum Datum not recorded

Permalink http://canmore.org.uk/site/282226

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Toggle Aerial | View on large map

Correction | Favourite ★

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How has UNPATH'D Waters managed to work around the common risks that prevent reuse?

- Clear community standards - enables large scale cross search
- This is a specialised resource with a clear designated maritime community making it easier to create a bespoke portal
- Human skills and expertise along with tools and interfaces developed by partners such as CNR and University of South Wales ensures consistency of mapping across various metadata standards

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Closing thoughts

- Interfaces are being built to answer specialised queries
- We are always thinking about who our designated community is - anyone with a research or professional interest in archaeology and heritage
- We want to meet bespoke needs
- FAIR has roots in Science, but our background is Arts and Humanities - so there are potential gaps
- We always need specialist community involvement to help fill these gaps

QUESTIONS?

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Thank you

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