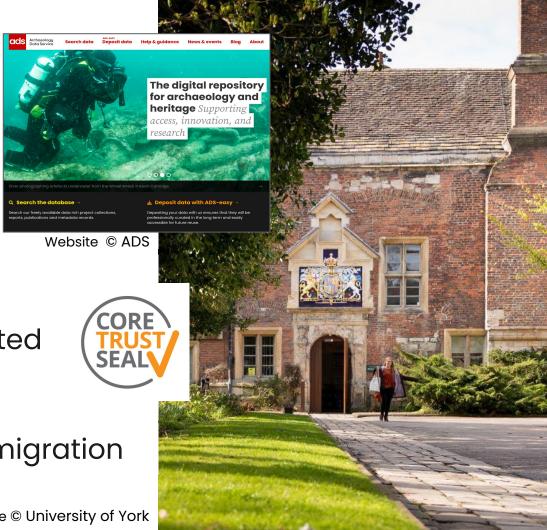


Keeping High Speed 2 on Track: managing a decade of asynchronous archiving and dissemination

Teagan Zoldoske and Holly Wright Archaeology Data Service



- Established in 1996
- University of York, UK
- CoreTrustSeal Accredited
- 45+ terabytes of data
- Preservation through migration





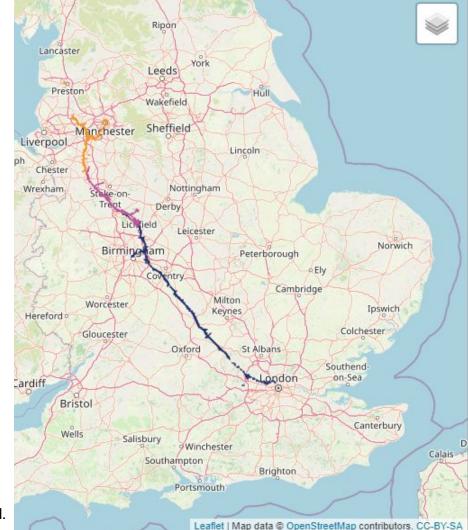


High Speed Two Railway

- 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.





High Speed 2 Digital Archive

15+ TB of data **expected** at the start of the project

Data types: 3D data (LIDAR, Laser Scans, Photogrammetry, RTI, CT Scans), Video and Audio, Databases, Spreadsheets, Documents, Photographs, Geophysics, (Mag, Res, GPR) CAD, GIS, Scientific data, X Ray, etc.





What data does the ADS hold from HS2?

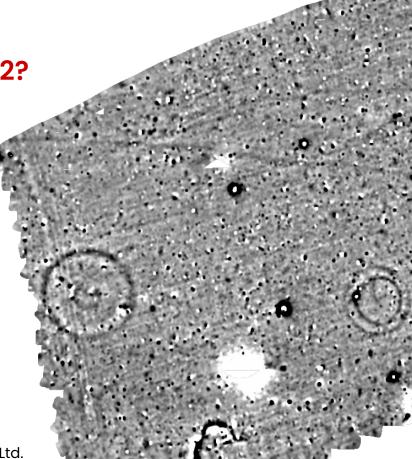
ADS has data from 360 sites

Total size: 16.2 TB

Largest site: 2.9 TB

Average Size: 8.7 GB (without the largest)

ADS holds geophysics and LiDAR data for all of Phase 1 and receives updates to the GIS map across all of HS2 every 6 months





What do these archives have in common?

- Collection level metadata
- Standardised metadata
- HS2 approved report
- A selection decision record

All archives are expected to follow **ADS deposit requirements** as well as data type specific **technical specifications** set out by HS2.



What are major differences between them?

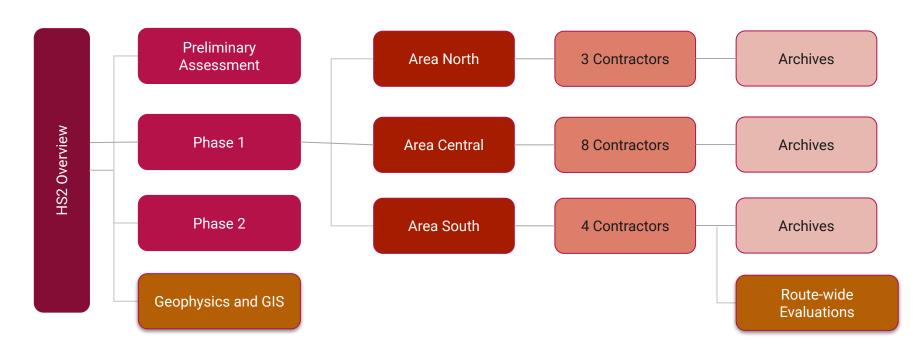
- Types of archives
 - Building surveys, cemeteries, excavations
 - Photogrammetry/Videos/Databases
- Need for special interfaces
- Different Depositors
- Size of archives



How do we manage these archives?



Organise based on what's known





Site Overview

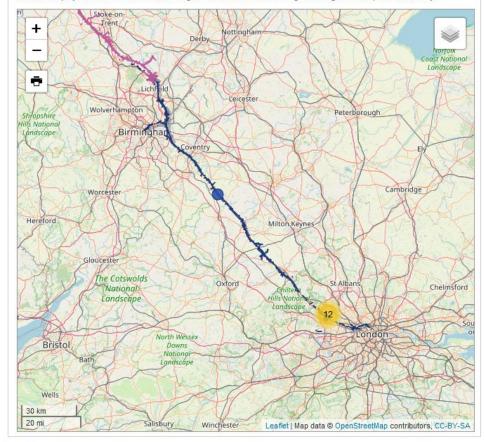
- Spatial extents of eachPhase
- Location of Archives
- Further information on each site
- Lidar of the route
- Geophysics of the route

Map of sites

List of sites

Map of sites

Below is a map of the project area. This map provides a preview of the phases of HS2. Use the layers button in the top right corner of the map to navegate the different previews. Once a layer is displayed on the map, you can zoom in to investigate or click the area to go through to the phase directly.





Site Overview Details

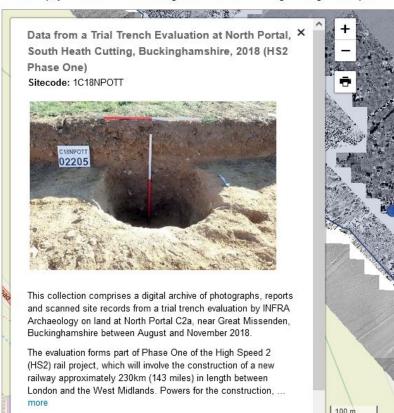
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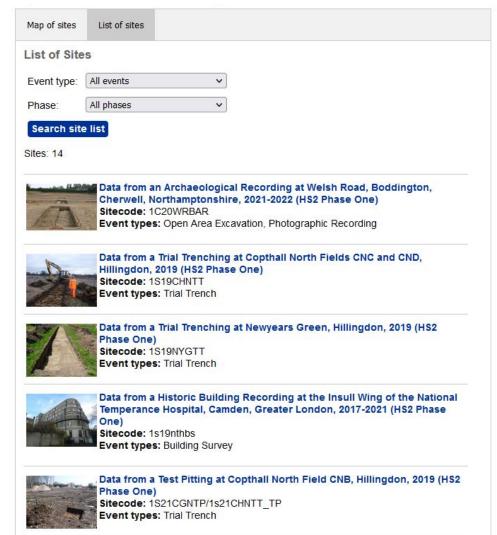


Front types: Archaeological Intervention, Evaluation, Trial Tranch



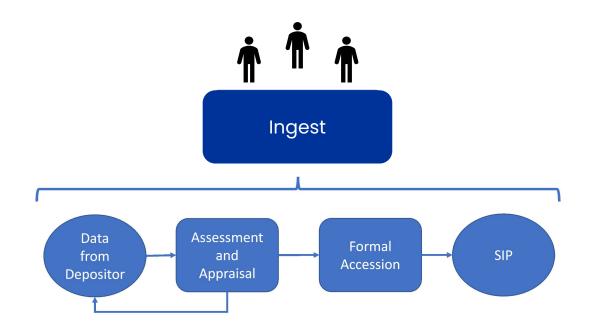
Site List

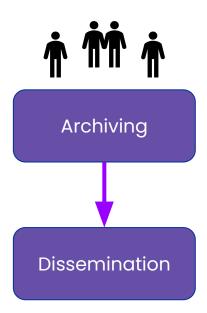
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Asynchronous Archiving and Dissemination







Managing Data

- Interface specific to needs of the archive
- Objects interconnected by creating relationships
- Metadata enhanced for better discoverability

Object ID	2277153		
Object Title	Photo 4275 Grave post ex 605722		
File name	1C19ERHAR_Photo_4275.jpg		
Format	JPG		
Format Type	JPEG File Interchange For	mat 1.01	
Checksum	8c244a1c1f2e57269b9d1840d8a8a3c7		
Created	07-Sep-2020		
Last Modified	22-Sep-2022		
File size	13 Mb		
Data Type	Image	Down	
Title	Photo 4275 Grave post ex	st ex 605722	
Creator	INFRA Archaeology		
Copyright	© HS2 Ltd.		
	LOCATION	Ellesborough Road Hospital	
Location	LOCATION	England	
Location	LOCATION	Buckinghamshire	
	LOCATION	Wendover	
Coordinates	Latitude Longitude	51.75879148 -0.746816843	
Subject	MONUMENT/OBJECT	Burial	
	MONUMENT/OBJECT	Inhumation	
	MONUMENT/OBJECT	Grave	
Period	MIDAS	Early Medieval	
	The second control of		

Associated Metadata:

Dates (BCE/CE)

Image and drawing metadata	XLSX	847 Kb

410 to 1066



Managing Data

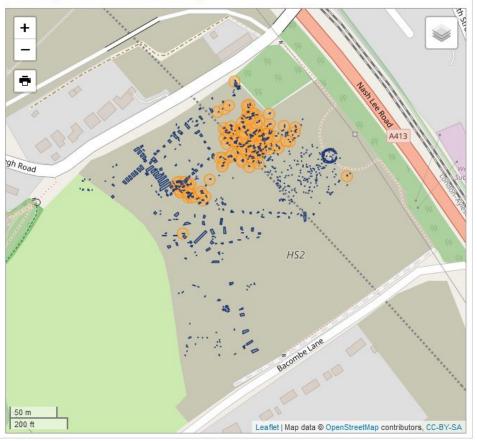
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Excavation Map

List of Models

Excavation Map

Below is a map of the project area. This map provides a view of all the skeletons that were digitally recorded with photogrammetry. The 'Excavated sites' layer shows key areas of excavation. Please note that not all grave cuts are included in this layer.





Managing Data

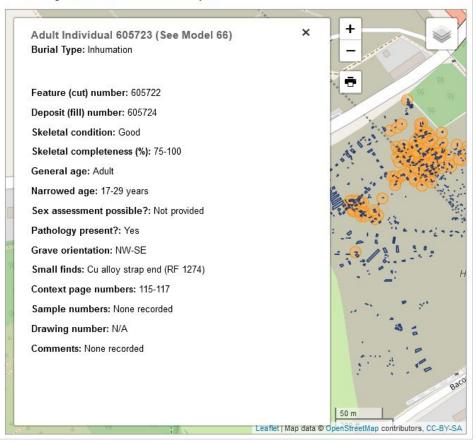
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Excavation Map

List of Models

Excavation Map

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Keeping things on track

- Dedicated team for dedicated tasks
- Organise based on what is known and update when something changes
- Make things multifunctional





Thank you!



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