

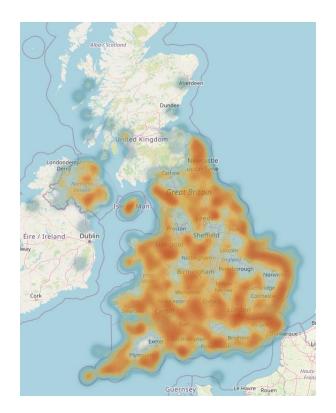
Introduction to the ADS

Dr Tim Evans, Deputy Director ADS



Introducing the ADS

- Accredited digital archive for UK heritage data.
- Founded in 1996.
- Based at the University of York.
- Data Preservation for UK-based archaeology and heritage projects (Industry and Higher Education).
- Undertake research and collaboration.
- Deliver training and advice within our sector.
- For more information see our <u>Annual Reports</u>.



Core Principles of the ADS



Introducing the ADS (people)

- **One** Director (Prof. Julian Richards OBE).
- One Deputy Director.
- **Six** Managers.
- Four Application Developers.
- **Eight** Curatorial + Technical staff (CaTs).
- **One** Data Engineer.
- **One** Internet Archaeology Editor.
- One User Support and Finance Assistant.
- **Two** placement students/interns.





Rationale for an ADS

Archaeology generates a lot of data!

Excavation is inherently destructive.

Notions of 'Preservation by Record' feed into moral and legal obligation to ensure data is preserved **<u>and</u> <u>accessible</u>**.



Wellington Quarry. Worcestershire. Worcestershire Historic Environment and Archaeology Service (2011). https://doi.org/10.5284/1000392



Preservation

Physical media is vulnerable

Technologies change

File formats evolve (obsolescence)

Accidents!



Bill Gates in 1994 showing a CD-ROM could hold more info than a stack of 330,000 pieces of paper.



Access

No preservation without re-use.

Reduce barriers to access.

Use digital to overcome traditional problems in compiling data for synthesis and understanding.



Museum of London Archaeology (2019) The Prittlewell princely burial: excavations at Priory Crescent, Southend-on-Sea, Essex 2003.https://doi.org/10.5284/1050095

Collections



National Collections

From an early stage the ADS began to receive external project-level funding and build partnerships from a variety of other organisations, such as Historic England to provide archiving services for national datasets.



PILLBOX (TYPE FW3/22) - England, Berkshire, Speen. Council for British Archaeology (2002). https://doi.org/10.5284/1000327



Industry

The majority of archaeological data in the UK was/is being generated in the commercial sectors and so the ADS continued to take on a wider role to act as data repository for these projects.



Chemring Countermeasures, High Post, Salisbury. Wessex Archaeology (2019). https://doi.org/10.5284/1057524



Buildings

Briefs and requirements set through Planning, but not necessarily by the Archaeological Officer.

Most units have teams that work on historic buildings, but still common to find individual architects or groups.



Historic Building Recording and Archaeological Monitoring and Recording at Mount Pleasant Methodist Chapel, New Mills, Derbyshire. Archaeological Research Services, 2023. https://doi.org/10.5284/1116906



Maritime + Intertidal

Work done under national legislation for protection of wrecks and submerged landscapes.

Increased work in the intertidal zone (offshore wind farms).



Watching Brief, Hornsea Offshore Wind Farm Project One (HOW01). Wessex Archaeology (2024) .https://doi.org/10.5284/1116860

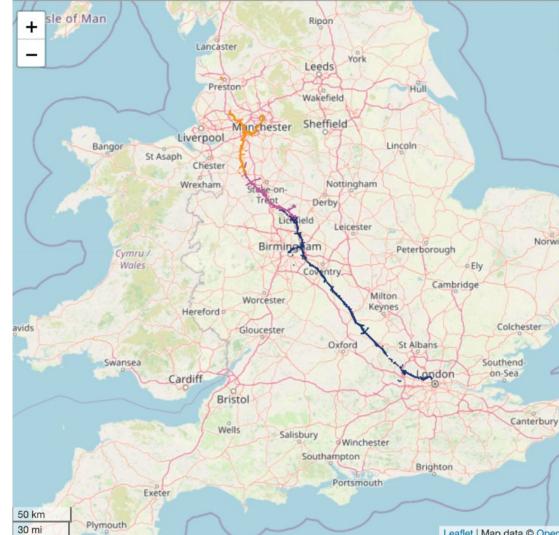




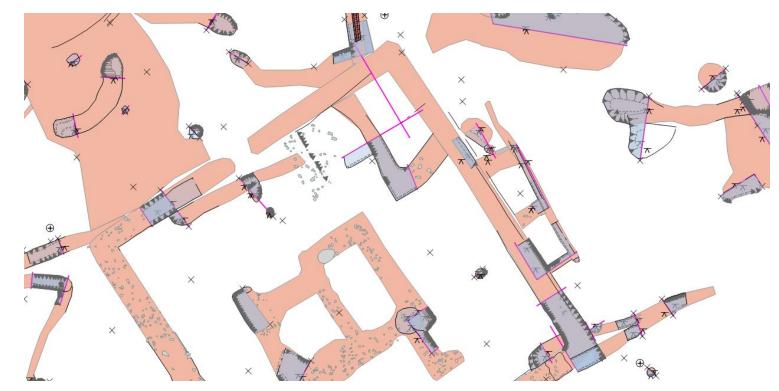
High Speed Two

- UK's largest linear infrastructure project
- Unprecedented opportunity
- Excavated by commercial archaeologists

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.







MOLA. Data from an Archaeological Recording at St Mary's Church and Churchyard, Stoke Mandeville, Buckinghamshire, 2020-2022 (HS2 Phase One)



3

D date					A A A A A A A A A A A A A A A A A A A	ads
•5				Q	- Subh	
Title: Reiter tombstone of Insus son of Vodallus, Lancaster - ES30 3D Model (OBJ) Filename: ES30-OBJ.zip (150 MB)		ZIP	Info Download			
A A A A A A A A A A A A A A A A A A A	Title: Reiter tombstone of Insus son of Vodallus, Lancaster - ES30 Filename: ES30.jpg (2 MB)	JPG	Info Download	N		
Leo 1-1 (WRL)	nbstone of Insus son of Vodallus, Lancaster - ES30 0_Leo_1-1.zip (1228 MB)	P ZIP	Info Download		Vellenaur	

Powered by 3DHOP

Ian Haynes, Lindsay Allason-Jones, Alex Turner (2023) Digital Archive from the Analysing Britain's Most Elusive Roman Sculptures Project [data-set]. https://doi.org/10.5284/1090382

How we operate



Funding Model

- National Funding: In 2021 AHRC via UKRI resumed digital infrastructure core funding for ADS.
- Research Funding: UK Funding Councils and EU for specific time-limited projects, often as part of consortia.
- Commercial Income: Charging Policy - passing cost onto Developer



Archaeological Strip, Map and Sample Excavation at Bury Spinney, Houghton Regis, Dunstable. Cotswold Archaeology (2024). https://doi.org/10.5284/1116728

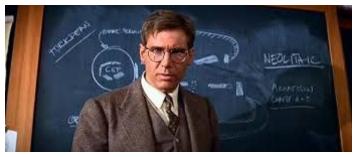


Designated Community

Researchers

- Professional archaeologists
- Curatorial archaeologists
- Local Government archaeologists
- National Government
- Archaeological Specialists
- Built Heritage Specialists







Audience

Community Groups

Schools

Creatives/Creative industries

Geologists/Historians

Interested people!

1↓ ADS Retweeted



WHGS Primary @WHGSPrimary · Oct 14, 2022 ···· Yesterday, #WHGS_YAC learned about the Folkton drum burial, thanks to the great work of the @Grave_Goods Project. We made our own "drum", each with its own story and interpretation. Such a great resource by @ADS_Update, @MelanieCGiles and team. archaeologydataservice.ac.uk/archiveDS/arch... 🔗





Structure and Organisation

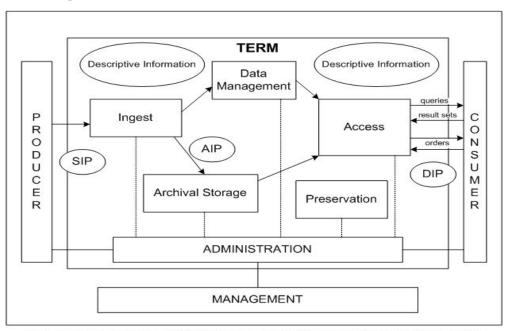


Fig. 1. Major functions of the OAIS Reference Model from Consultative Committee for Space Data Systems (CCSDS), <u>CCSDS 650.0-W-1, Producer-Archive Interface Methodology Abstract</u> Standard. (OAIS). White Book. Issue 1. Draft Recommendation for Space Data System Standards.



Structure and Organisation





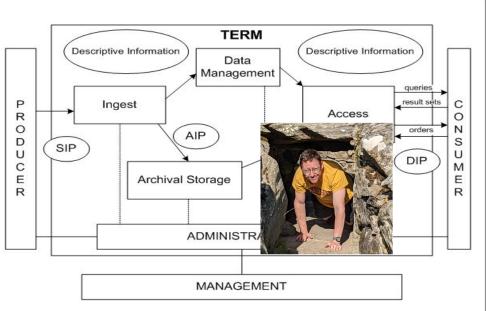


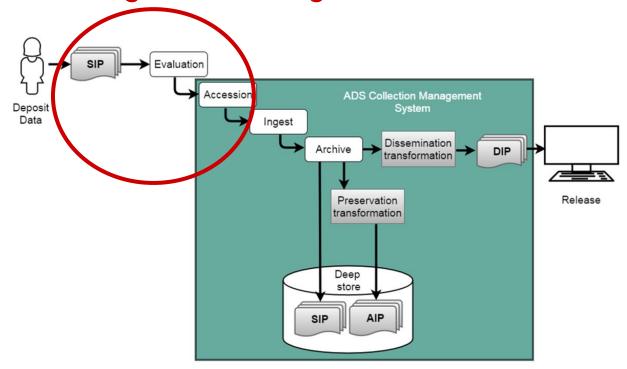




Fig. 1. Major functions of the OAIS Reference Model from Consultative Committee for Space Data Systems (CCSDS), <u>CCSDS 650.0-W-1</u>, <u>Producer-Archive Interface Methodology Abstract</u> Standard. (OAIS). White Book. Issue 1. Draft Recommendation for Space Data System Standards.

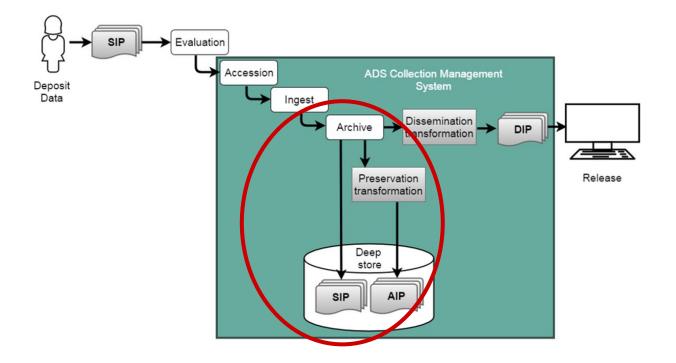


Structure and Organisation: Ingest



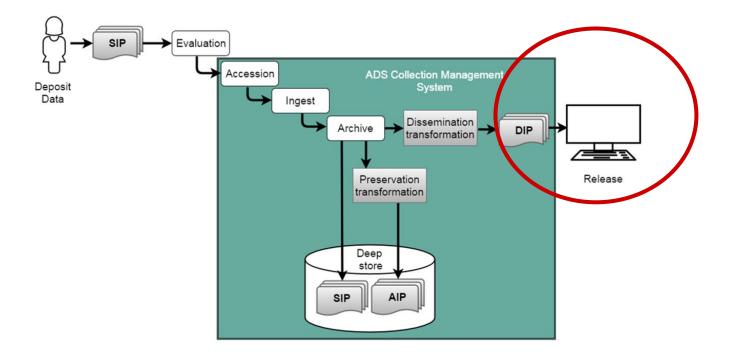


Structure and Organisation: Archive





Structure and Organisation: Dissemination





Internal + External Assessment

- CoreTrustSeal (CTS)
- Encourage reflection, and assessment of where we can improve
- Often feed into developing Policy and ensuring workflows are documented.

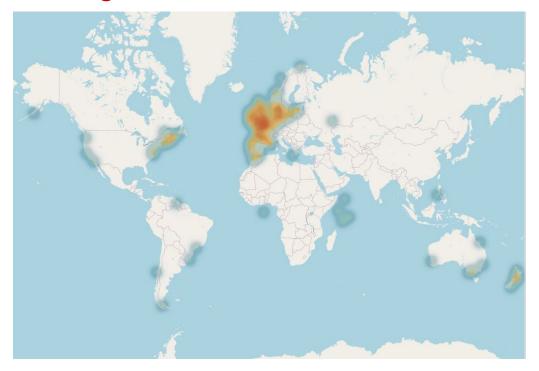




Collaboration



Sharing our metadata





Ariadne

- The largest research infrastructure for Archaeology & heritage - anywhere in the world.
- 4m resources records in the ARIADNE Catalogue.
- 50+ countries.
- ARIADNE RI AISBL not for profit association, with office in Brussels – 30 members – focussed on putting heritage data online, with charging policy being developed via EU COST Innovators Grant





Current EU Research projects

- ATRIUM Advancing Frontier Research in the Arts and Humanities, with DARIAH, CLARIN, OPERAS, 4 years started Jan 2024
- ECHOES establishing the European Collaborative Cloud for Cultural Heritage (ECCCH), 5 years, starting June 2024, led by CNRS and CNR - €110m until 2025
- AUTOMATA ECCCH project Archaeology, Al and Robotics, 4.5 years, starting Sept 2024
- E-RIHS European Research Infrastructure for Heritage Science





Heritage and Conservation Science Data Service

Scotland

York awarded the £14.4m RICHeS Digital Research Service: the Heritage Science Data Service (HSDS), starting 1 September 2024.

Consortium includes:

STFC Hartree	National Gallery
National Heritage Science Forum	British Museum
Natural History Museum	Historic England
British Geological Survey	Historic Environment Sco
Museum Data Service	National Museum Wales





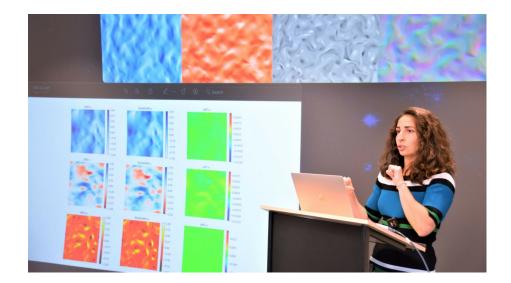


The National Archives



Heritage and Conservation Science Data Service

Working with STFC Hartree on Virtual Research Environments for analysis of data.





Thankyou!

tim.evans@york.ac.uk

Archaeology Data Service
Department of Archaeology
University of York
The King's Manor
Exhibition Square
York, YOI 7EP



www.archaeologydataservice.ac.uk



help@archaeologydataservice.ac.uk