

Making Heritage Science Data FAIR and Impactful

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Introducing the seminar partners









- A new Strategic Framework for Heritage Science in the UK led by NHSF, a 21 institutional membership organisation, was launched at the Tower of London on 5 December 2018.
- This Framework and the emerging ERIHS Infrastructure Strategy will complement and add value and strength to each other, and heritage science in the UK
- ERIHS and NHSF agreed formally to work together in October 2019 to promote heritage science, of which heritage science data is a key example



ERIHS.UK and NHSF agree formally to work together at a meeting of NHSF Trustees on 3rd October 2018





- ICON Heritage Science Group is a Forum for professionals interested in the scientific endeavour benefitting the conservation, management and interpretation of cultural heritage
- ICON HSG supports widening access to heritage science data and dialogue between heritage scientists and related professionals to develop best practices in its generation and use.



HSG initiative on Ethical Sampling Guidance presented at ERIHS.UK dissemination event, Stirling, 16 January 2019



Why do we need Research Infrastructures?

- Limited investment funds available for research
- Research problems require broad sharing of **data**, expertise and equipment and networking globally and nationally through distributed RIs
- Need for better coordination of collaborative cross-disciplinary research for more efficient use of **data**, resources and intensified international impact
- Heritage sector will benefit through significantly improved access to cutting edge **data** science, leading to a step change in understanding and management of heritage





E-RIHS

- Digital data: fostering use, reuse and preservation of digital data and tools in Heritage Science
- A collection of advanced tools and services for a cross-disciplinary community of researchers
- Joint Research: advancing the state-of-the-art of access, services, facilities and tools
- Networking: knowledge exchange, best practices, international cooperation.
- Impact: dissemination, communication, support to social and industrial innovation
- Education and training: E-RIHS Academy
- Trans-National Access to four integrated access platforms



E-RIHS 4 access platforms



access to all services but DIGILAB will be provided via periodic calls (every six months)



E-RIHS UK hub – Example of an ARCHLAB



NATIONAL GALLERY

- Physical archives of data and samples
- Reports, correspondence
- Photographs
- Exhibition records
- Publications, press records



E-RIHS UK hub – Example of a DIGILAB





- Digital data repository
- Good practice in the use of data
- Technical support



E-RIHS UK hub – Example of a MOLAB





 Mobile facility with diverse instrumentation for on-site research and engagement



E-RIHS UK hub – Example of a FIXLAB





- Non-destructive synchrotron techniques for improved analytical sensitivity for time-resolved measurements and imaging in divers modes
- Access to beam time for heritage science



UK Infrastructure Landscape

Facilities, resources and services that are used by the research and innovation communities to conduct research and foster innovation in their fields. They include: major scientific equipment (or sets of instruments), knowledge-based resources such as collections, archives and scientific data, e-infrastructures, such as data and computing systems and communication networks and any other tools that are essential to achieve excellence in research and innovation.





UK Infrastructure Roadmap

- Creating a long-term (approximately 2030) research and innovation infrastructure roadmap, future requirements, and resulting investment priorities
- Identifying future research and innovation infrastructure capability priorities
- Identifying opportunities for increasing inter-connectivity
- Supporting development of UKRI's overall long-term investment plan





UK Infrastructure Roadmap timeline

- Programme to create Roadmap launched January 2018
- Emerging findings or Landscape Analysis published December 2018
- Progress report was due to be published January 2019
- Consultation February 2019
- First edition published Spring 2019
- Backdrop to creation of E-RIHS UK





E-RIHS UK state of the art

- A UK-wide node of distributed research infrastructures (skills and equipment)
- 14 institutions, academic, museums, galleries, libraries, archives, heritage agencies, research institutions & facilities – creating a distributed research infrastructure of future providers/users of research, making up the Steering Committee of E-RIHS.uk
- All signatories to a Memorandum of Understanding designed to show intention to collaborate, non-legally binding and without committing financial support to each other
- Identified need for 2 ERIHS UK Working Groups Infrastructure and Governance developing core documents mirroring those being developed by ERIHS for an ERIC
- Working in partnership with the National Heritage Science Forum
- □ Actively reaching out to other European platforms DARIAH and DISSCO



E-RIHS UK timeline

- 01.02.2017 Start of E-RIHS EU PP
- 19.03.2017 E-RIHS UK launches
- 03.09.2018 E-RIHS.uk launches DIGILAB with partner Archaeology Data Service, York
- 06.12.2018 Strategic partnership with National Heritage Science Forum (NHSF)
- 14.01.2019 E-RIHS Academy Core Skills Workshop in Windsor
- 16.01.2019 Historic Environment Scotland dissemination event, Stirling
- 11.02.2019 –'Making heritage science data FAIR and Impactful' seminar, UCL Here East
- 00.03.2019 Strategic documents for submitting E-RIHS ERIC proposal ready
- 00.09.2019 8th E-RIHS interim meeting in London



E-RIHS UK hub



















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