



The Marine Historic Environment Record Service for England:

Developing Solutions for Marine Heritage Data Management

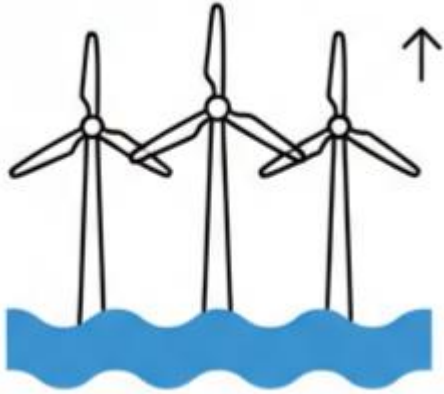
Dr Yingying Yan

Marine Historic Environment Record (HER) Officer

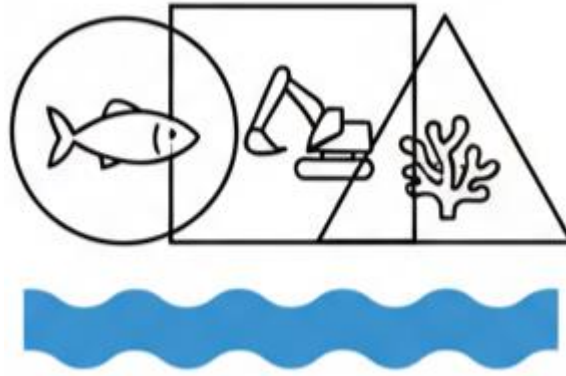
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Our Marine Environment



Offshore wind expansion
(65GW target by 2035)



Fishing, aggregates, cables,
Conservation...
all competing for seabed space



Climate change increasing
impacts on marine and
coastal heritage



Challenges in Marine Heritage Data

- Scattered and siloed heritage data across multiple organisations
- Inconsistent data formats and standards
- Gaps in baseline data limit monitoring and understanding of change
- Lack of integration with other marine datasets, constraining evidence-based decision-making

Familiar challenges
across the wider MEDIN
community:

why collaboration and
shared data principles are
so important.



Our Key Solution

A National Marine Historic Environment Record

2024.09

The **Marine Historic Environment Record Service for England** was established

Aims at...

Providing a comprehensive marine historic environment record (HER) for planning, policy and protection.

Providing a unified service ensuring marine heritage data are reliable, consistent, and accessible for all users.



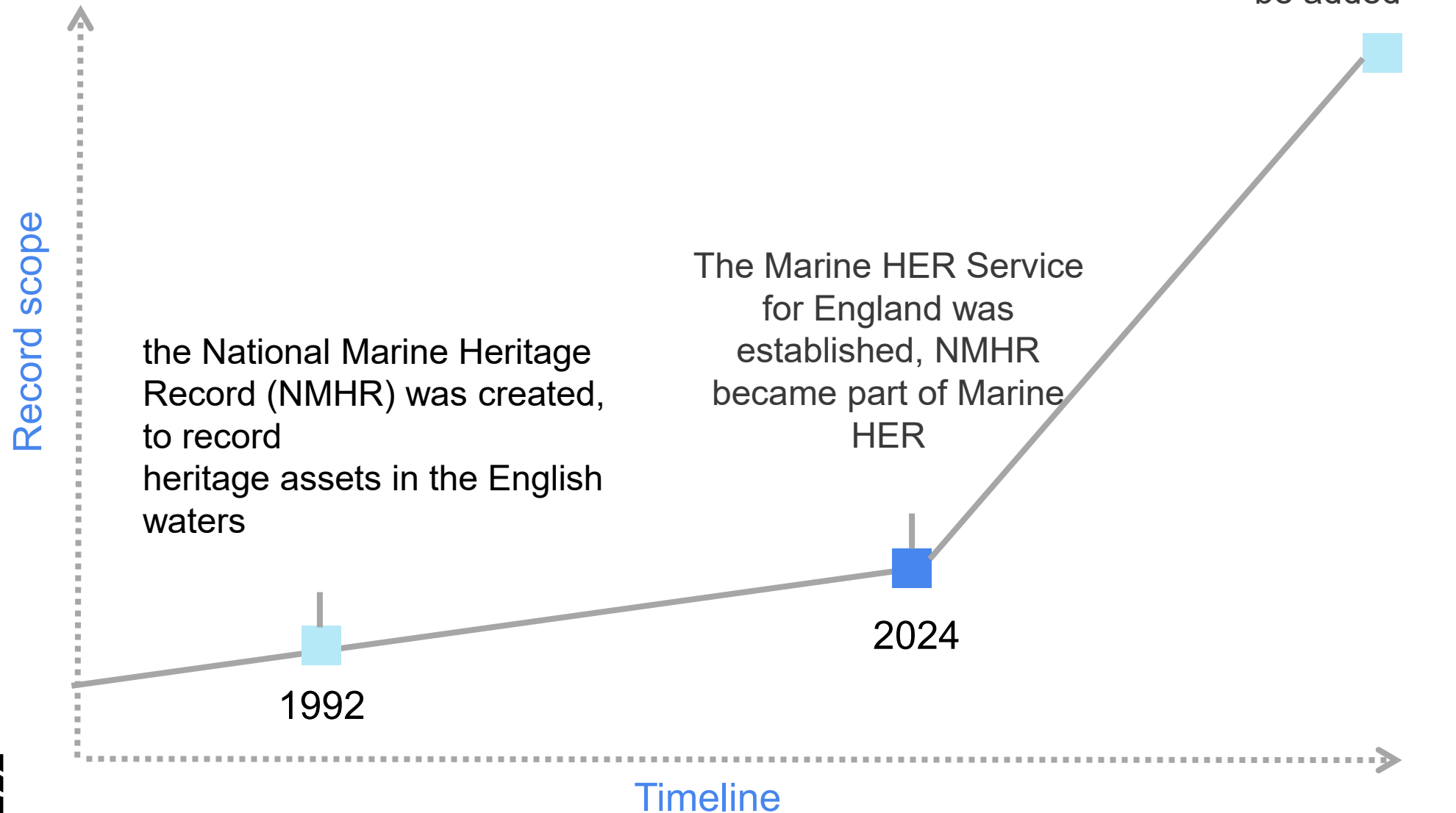
Historic Environment Records (HERs)



- Historic Environment Records (HERs) are databases of archaeology and historic buildings for a geographic area
- Contain sites, finds, landscapes and are regularly updated
- Include mapping and digital information (GIS) Maintained by local authorities, joint services, or major landowners
- Over 80 HERs in England, forming the core of historic environment services



The History and the future



Scope of the Marine HER

Extended from territorial waters adjacent to England (Mean High Water Springs out to 12 nautical miles)

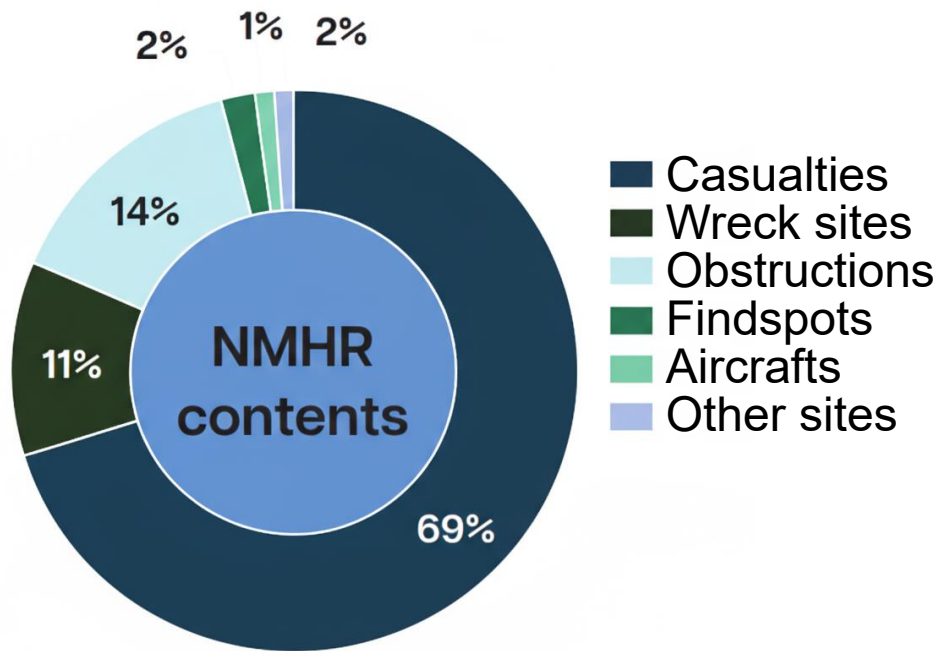


To full extent of the English offshore marine plan area, as defined by Marine and Coastal Access Act 2009



Content in the Marine HER

over 45,000 records:
31,000 recorded losses
6,000 wreck sites



Historic Event
Artefact
Historic Aircraft
Wreck Site
Activity
Digital Object
Crew
Seascape Characterization
Dendrochronology
Radiocarbon Date
Luminescence Date
Person
Bibliographic Source
Maritime Vessel
Place
Organization
Heritage Story
Period
Coastal Peat Site
findspot
Aircraft Crash Site
Climate Hazard
Monument





Current Data flowlines

Coastal erosion

BMAPA monitoring

Intertidal Peat Project Database

Receiver of Wreck

Internal research and casework

UKHO wreck and obstruction

Coastal HER data exchanges

Rapid Coastal Zone Assessment

Richard and Bridget Larn

Shipwreck Index



The new platform for the Marine HER

The screenshot displays the Marine HER platform interface. On the left, a vertical sidebar contains navigation icons for Text, Maps, Photos, and 3D. The main content area is divided into a search panel on the left and a map on the right. The search panel includes a search bar, a dropdown menu for 'Find a resource...', filter buttons for 'QA Type' and 'Resource Type', and a list of search results. The map on the right shows a geographical view of Europe with various data points represented by colored circles and numbers. The interface also features a top navigation bar with a search bar, user information, and navigation icons. The bottom of the map area includes a 'mapbox' logo and copyright information.

Search Panel:

- Search: Find a resource... (All (*) selected)
- Filters: QA Type, Resource Type
- Results: 25 of 65689
- Buttons: Clear Filters, Unsorted

Search Results:

- Woodham Ferrers And Maldon Railway**
The Woodham Ferrers and Maldon Railway was opened in 1889, but was barely viable during its history. Maldon West closed in 1916-19 as an economy measure. In 1933 the...
- Spear, -2600 - -700**
Bronze Age spearheads found in the River Thames at Battersea. Some of the finds are in the British Museum.
- Bomb, 1939 - 1945**
A partially buried General Purpose air-delivered bomb (500lb) discovered approximately 19.1 nautical miles north of Holkham Bay, during a remote operated vehicle (ROV) surve...

Map Panel:

- Map Filter, Advanced, Related, Details
- Map navigation: +, -, zoom in/out, full screen
- Search: Find an address
- Map features: Filter, Basemap, Overlays, Legend
- Mapbox logo and copyright: © Mapbox © OpenStreetMap Improve this map

The Value of the wider Partnership

MEDIN provides the framework for consistency, transparency, and collaboration across the UK marine data community.

We see value in continuing to:

- Adopt MEDIN standards
- Share data and best practice
- Contribute to wider conversations around stewardship and interoperability



Looking Ahead – A Service Fit for the Future



Strengthening
long-term data
governance and
resilience



Expanding
collaboration and
data
contributions



Improving
interoperability
with national
marine data
systems



Embedding
environmental
and climate
context



Supporting a
shared, trusted
marine evidence
base



Thank you

Any questions?



historicengland.org.uk