



UK Centre for Seabed Mapping: Coordinating the collection, management and accessibility of seabed mapping data through collaboration

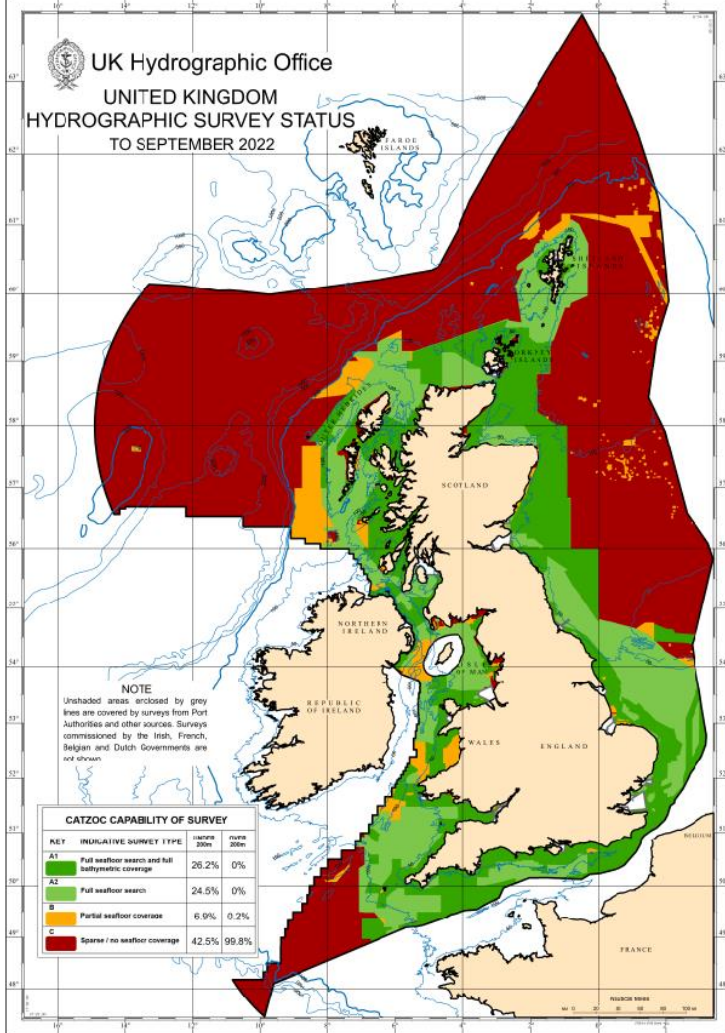
Presented by, G Nash UKHO 26/4/23



UK CSM - The Issue

- The UK Government seabed mapping community is large (around 30 organisations) and spread across numerous departments.
- No central coordination of operational activity or data collection standards.
- Only 26% of the UK EEZ (British Isles) systematically surveyed to modern standards (about 1.5% per year).
- Only 2% of the UK EEZ (Global OTs and CDs) systematically surveyed to modern standards.
- No combined voice to reinforce the importance of marine geospatial data to manage, protect and utilise the UK Marine Estate.

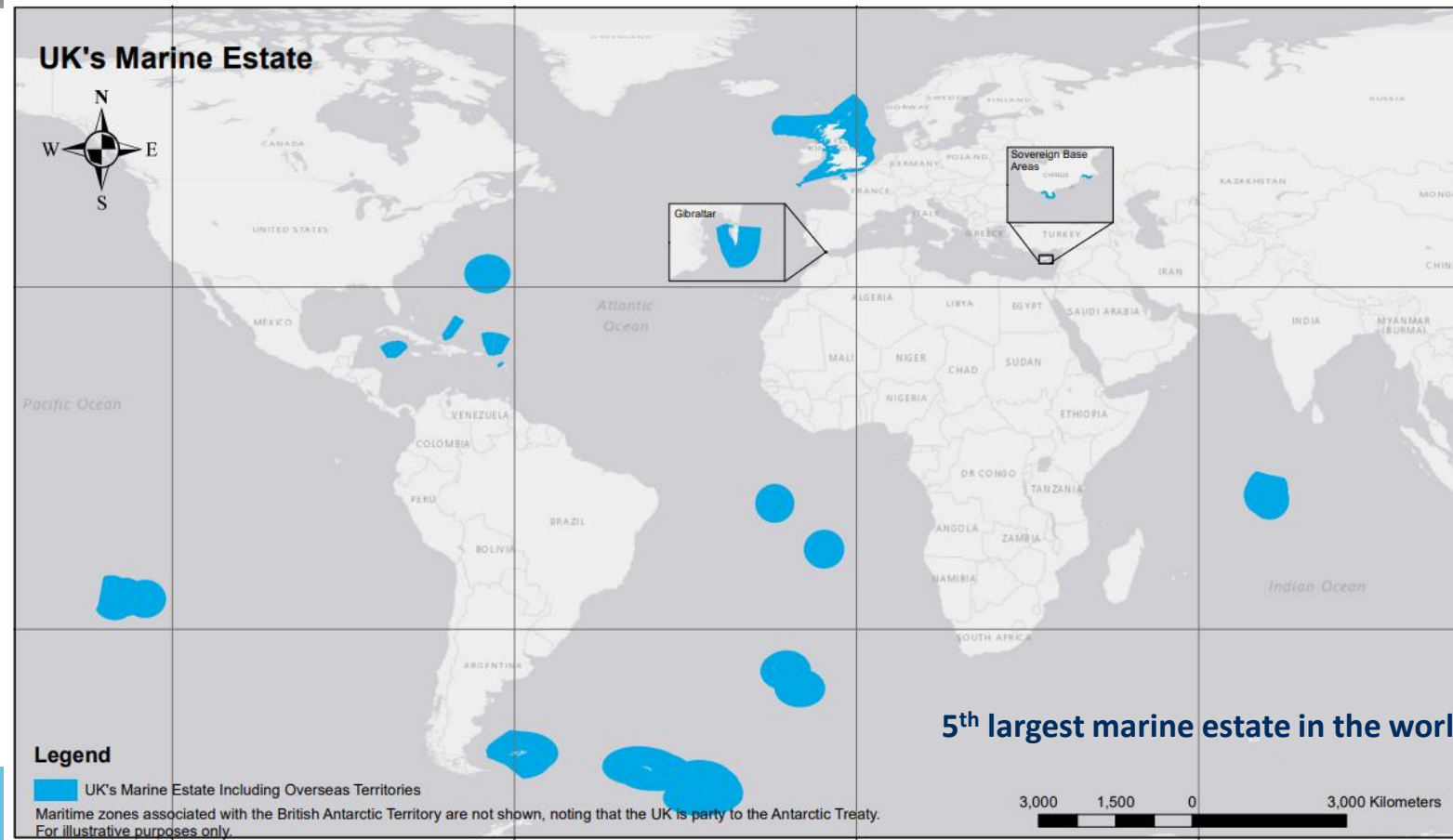
UK Hydrographic Office
 UNITED KINGDOM
 HYDROGRAPHIC SURVEY STATUS
 TO SEPTEMBER 2022



NOTE
 Unshaded areas enclosed by grey lines are covered by surveys from Port Authorities and other sources. Surveys commissioned by the Irish, French, Belgian and Dutch Governments are not shown.

CATZOC CAPABILITY OF SURVEY			
NET	INDICATIVE SURVEY TYPE	area 200m	area 500m
A1	Full seafloor search and full bathymetric coverage	26.2%	0%
A2	Full seafloor search	24.5%	0%
B	Partial seafloor coverage	6.9%	0.2%
C	Sparse / no seafloor coverage	42.5%	99.8%







UK Centre for Seabed Mapping created...

- Quality marine geospatial information is essential for almost every activity undertaken in the marine domain.
- These activities include maritime trade, informing sustainable environmental and resource management, and supporting national security and infrastructure.
- **Vision & Mission:** to support a more integrated Marine Geospatial Sector for the UK, both nationally and internationally; increase the coverage, quality and access of seabed mapping data collected using public money, or in collaboration with industry, as well as better promote it as a critical component of national infrastructure.





UK CSM Priorities

- Four priorities that the UK CSM seeks to address:

- Collaboration



- Data Standards



- Data Accessibility



- Data Collection



UK Centre for Seabed Mapping

Seabed mapping is the foundation dataset that underpins almost every sector within the marine environment.

Administered by the:

UK Hydrographic Office

The UKHO supports the Sustainable Development Goals



MEDIN is a partnership of UK organisations committed to improving access to UK marine data.

UK CSM Mission and Vision... “ to support a more integrated Marine Geospatial Sector for the UK, both nationally and internationally; increase the coverage, quality and access of seabed mapping data collected using public money,...”





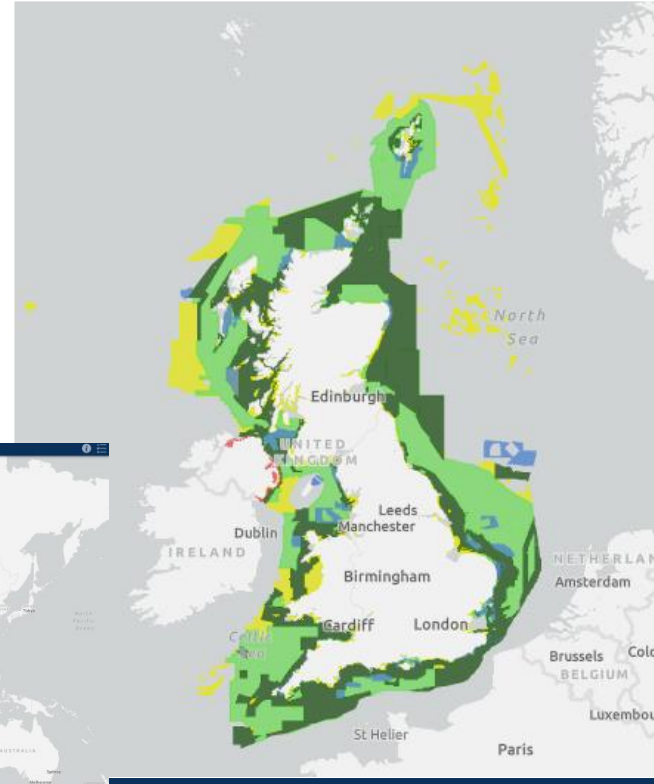
UK CSM - Initial Operating Capacity

• **Planning Information Portal** – all organisations able to share their forward plans for activity, anywhere in the world:

- [UK CSM Planning Information Portal \(arcgis.com\)](http://arcgis.com)

• **Website** – able to share details with members:

- UK Centre For Seabed Mapping | ADMIRALTY



National Strategy for Maritime Security 2022

- Published July 2022
- Signed by: Defra, FCDO, MOD, DfT, Home Office
- Maritime Security = Societal, Economic & Environmental.
- **Conditions:** Will need to be reported on progress.

The Physical Maritime Domain

17. However, as highlighted in the Integrated Review, the world is entering the 'informational age' and this strategy recognises the ocean as the next frontier to be opened up by advances in technology driven by the ever-increasing demand for more accurate and reliable marine geospatial information by the public and private sectors of all coastal and island nations. Therefore, government has committed to establishing the UK Centre for Seabed Mapping which will be hosted by the UK Hydrographic Office. As a centre of excellence, it will coordinate cross-government and industry collaboration in order to increase the quantity, quality, and availability of data in the marine domain, which will inform government to support security, prosperity, and environmental objectives.



HM Government

National Strategy for Maritime Security

UK CSM and Seabed 2030

UK CSM Submitted as a UK Government Voluntary Commitment to the United Nations at the UN Ocean Conference in Lisbon, Portugal, in June 2022.

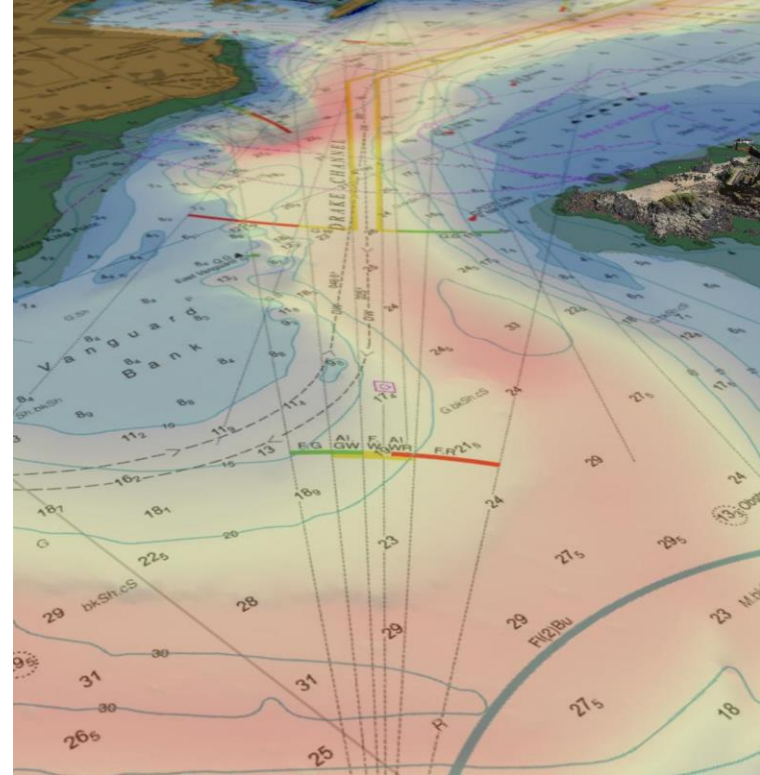
- The UK CSM aims to contribute to the UN Ocean Decade
- **SDG 9: Build resilient infrastructure, promote inclusive and sustainable industrialisation and foster innovation;**
- **SDG 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development.**





The Future...

- Once UK CSM has significant traction across Government, it is hoped to expand collaboration with:
 - Ports
 - Offshore energy sector
 - Academia
 - Private sector
- This is hoped to begin in late 2023.



Thank you

