(Ref: IHO Strategic Plan 2021-2026)

Members, Associate Members and Observer States

Coastal State: United Kingdom of Great Britain and Northern Ireland



GOAL	Target	Current State	Gap
Goal 1: Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation	 Deliver standards for hydrographic data and specifications of hydrographic products; support their regular production; and coordinate regional and global services for their provision Develop standards, specifications and guidelines in the areas of data assurance, including cyber security and data quality assessment Use capacity building and training to develop and increase the ability of Member States to support safety and efficiency of maritime navigation 	 e.g. refer to Strategic Performance Indicators (SPI) IHO Universal Hydrographic Data Model (S-100) not implemented engagement in IHO and SWPHC WGs refer to current state of SWP PICTs IHO Capacity Building Strategy - SWPHC17 Feb 2020 KPIs are in place for strategic monitoring of safety, quality, and outputs S100 Strategy endorsed by UKHO Board Engagement at IHO and RHC meetings A Data Governance practice is in place to ensure coordinated approach towards Data Management including utilisation of International Standards. UKHO Communication and Information Systems (CIS) are accredited by the Defence Security Standards Organisation (DSSO). An extensive Capacity Building programme wide ranging from Data Collection, hydrographic governance, training, through to production and data management solutions. Coproduction and development of standards in conjunction with MCA for the Civil Hydrography Programme (CHP) as well as UKHO specifications for data collection and governance implementation. 	 e.g. no operationalised production and distribution of S-100 data products and services limited capability and resources to meet the requirements and delivery of the S-100 implementation plan lack of support from Government institutions for maritime navigation lack of understanding of maritime navigation transformation ✓ We recognise the additional capacity which will be required to manage the transition from existing products to the next generation of S100

Actions

e.g.

- participation of Coastal State at the IHO and SWPHC WGs and Committee levels
- assistance sought from IHO, Primary Charting Authority, SWPHC, SPC, IALA, IMO
- ensure adequate institutional arrangements in place for Hydrographic Governance
- capacity building activities through IHO capacity building strategy or other donor organisations
- engage with relevant Government departments and the Maritime Safety Authority to increase aware and support for e-Navigation
- prepare business case for e-Navigation strategy
- ✓ S100 Implementation Plan will be developed iteratively and in line with user demand and needs
- ✓ Continue to work with partners and the hydrographic community to support implementation of \$100
- Establish a SWPHC MSDI Working Group for the sustainable development and use of the oceans, seas and inland waters in line with the United Nations Sustainable Development Goals, based on the 9 Strategic Pathways from UN-GGIM IGIF.

SWPHC18 – IHO Strategic Plan 2021-2026: GAP Analysis

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GOAL	Target	Current State	Gap Gap
GOAL Goal 2: Increasing the use of hydrographic data for the benefit of society	 Farget Build a portal to support and promote regional and international cooperation in marine spatial data infrastructures (MSDI) Promote new tools and methods to accelerate and increase coverage, consistency, quality of surveys in poorly surveyed areas Apply UN shared guiding principles for geospatial information management in order to ensure interoperability and extended use of hydrographic data in combination with other marine-related data 	 Current State e.g. refer to Strategic Performance Indicators (SPI) FAIR data principles (Findable Accessible Interoperable and Reusable) accepted and implemented UN-GGIM Integrated Geospatial Information Framework (IGIF) action plans developed refer to IHO Publication C-55 Status of Hydrographic Surveying and Nautical Charting Worldwide use of IHO S-44 V UN-GGIM IGIF has been endorsed as the framework to implement and assess progress against MSDI As a Public Authority, we make relevant data sets available under the Open Government Licence. The ADMIRALTY Marine Data Portal (MDP) provides access to marine data sets held within the UK Exclusive Economic Zone (EEZ). The MDP enables users to search and download data sets regarding maritime limits and boundaries, ships' routeing measures, bathymetry and more. We have been accredited by the Marine Environmental Data and Information Network (MEDIN) as the National Data Archive Centre for bathymetric surveys. Therefore, we have included access to relevant bathymetric surveys held in our Data Archive Centre as part of our MDP. Each month we undertake a monthly service review of the MDP to check ongoing performance and trends with associated KPIs. Our published Data Principles are top-level management approved guidelines to ensure that the handling of our data and the <u>Best Practice</u> behaviours of those responsible for data, meet organizational norms and expectations. These include the safeguarding of data via the following four sub-principles Data must be afeguarded Data must be fit for purpose A Data Governance practice is in place to ensure coordinated approach towards Data Management including utilisation of International Standards. We have a developed a Data Governance Framework as the single recognised picture of overall Data Governance to HXHO. We know where we have gathered data and	 Gap e.g. Need implementation plan multiple areas inadequately surveyed data is poorly managed, unavailable and not shared i.e. open, free and unrestricted ✓ A UKHO implementation plan/roadmap plan for MSDI explicitly aligned to the UN-GGIM IGIF

Actions

- e.g.
- engage with PCA to prepare hydrographic survey programme
- prepare survey specifications using IHO S-44
- Implement FAIR data principles
- Implement UN-GGIM IGIF
- Provide data to existing portals, such as IHO DCDB
- assistance sought from IHO, Primary Charting Authority, SWPHC, SPC, IALA, IMO
- Following approval of the UKHO Enterprise architecture for the S100 Data Model and MSDI develop a programme of work and roadmap to implement.

SWPHC18 – IHO Strategic Plan 2021-2026: GAP Analysis

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GOAL	Та	rget	Current State	Gap	
Goal 3: Participating	•	Collaborate with other bodies who	e.g.	e.g.	
actively in		deliver capacity-building and	• refer to Strategic Performance Indicators (SPI)	•	need to achieve IHO CB Strategy Phase 1
international initiatives		training to improve effectiveness of	no MSI capability	•	increase Government knowledge and
related to the		capacity-building activities and	engage with SWPHC CB activities		support for UN Decade of Ocean Science
knowledge and the		programmes	lack of knowledge and awareness of UN Decade of Ocean Science or		seafloor data is poorly managed,
sustainable use of the	•	Improve knowledge of the world's	Seabed 2030 Project		unavailable and not shared i.e. open, free
Ocean		seafloors	• data contributed to IHO Data Centre for Digital Bathymetry (DCDB)		and unrestricted
	•	Implement a comprehensive IHO	and Seabed 2030	•	no support for hydrography comms
		digital communication strategy in	CSB initiatives supported		
		order to enhance its visibility and	no digital communications strategy for hydrography		 Increase coordinated policy
		accessibility to its work	(III/ is an active portion of the UNID so to a Correst Crimer		information and visibility of
			✓ UK is an active participant in the UN Decade of Ocean Science		'hydrographic community' for briefing into central government
			for sustainable development and has a National UN Decade organising committee. UKHO is a rep to this.		decision making.
			 ✓ UKHO has a representative on the G7 Future of the Seas 		 ✓ Lack of evidence/economic impact
			Working Group.		base to support bids for
			✓ The UK has a national Marine Science Coordination Committee		development funding
			of which UKHO is a member. MSCC acts as the interface		
			between many international initiatives.		
			✓ UKHO was part of the UK national Delegation to the UN Oceans		
			Conference and will attend the 2 nd UN Oceans Conference in		
			Nov 2021.		
			✓ UKHO is actively engaged in preparations for the G7 meeting in June and the COP26 in Nov 2021		
			✓ UKHO has a dedicated Hydrographic Programmes Team that		
			lead International Development programmes focused on seabed		
			mapping and associated Capacity Building e.g. the Overseas		
			Territories Seabed Mapping Programme (OTSMP) and the		
			Commonwealth Marine Economies Programme (CME Prog.).		
			 UKHO is working with the Government of Kiribati, the World 		
			Bank and Asian Development Bank to deliver the Kiribati Outer		
			Island Transport Infrastructure Investment Programme (KOITIIP)		
			which has a dedicated capacity Building work stream.		
			 UKHO is the Bathymetry Data Archive Centre for UK and makes publicly funded seabed mapping data available for the UK EEZ 		
			 ✓ UKHO has an active social media and comms presence with the 		
			inaugural Admiralty Blue Data Conference having been held in		
			Jan 2021.		
	1		Juil 2021.	1	

Actions

- engage with regional CB activities i.e. SWPHC, SPC, IALA, IMO and bilateral development programmes
- engage with Government institutions to gain support for international ocean initiatives
- prepare policy paper to release seafloor data to the IHO DCDB and Seabed 2030
- engage with Seabed 2030 Project to install bathymetric data loggers for CSB initiatives
- seek support to develop a communications strategy
- contribute papers to the IHR and other seabed publications
- develop social media strategy
 - ✓ Commission economic impact assessment and value chain mapping
 - ✓ Developing a G7 and COP26 action plan