

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Annual Report 2025

**Work Programme and Budget,
Strategic Plan, and
Performance Monitoring**

**Status Report on
Performance Monitoring
related to the Strategic Plan
of IHO 2021-2026**



IHO

International
Hydrographic
Organization

Background

The IHO Strategic Plan 2021 – 2026 comprises four sections:

- I **Preamble** – introduction to the IHO, its vision, mission, and objects. The wording is drawn from the Convention on the IHO.
- II **Challenges** – overview of the strategic context within which the IHO and Member States operate now and will operate in the near future and how this may impact activities.
- III **Goals** – targets for 2026 and Strategic Performance Indicators.
- IV **Implementation Framework** – briefly outlines how the plan is enacted and how progress with respect to the plan is reviewed and monitored.

To face the challenges described under section II, the plan is structured through three overarching goals, focusing the exercise of its mission during this period. Under the three goals, the Organization has identified targets to be reached by 2026.

The Strategic Plan is design to focus on three most relevant goals to be addressed in the two trienniums but is not a comprehensive description of the full scope of IHO activities, which is fully covered in its Work Programme. The Assembly endorsed the alignment of the 2024 and three-year IHO Work Programme 2024-2026 with the Strategic Plan, while keeping the current structure of the Work Programme to facilitate the operational work and implementation by the Secretariat.



Progress monitoring

Success in achieving the Strategic Goals and Targets is measured by Strategic Performance Indicators (SPIs). The Council determines the method for calculating the performance indicators. The alignment of those indicators to the relevant elements of IHO's Work Programme demonstrates the interrelation between ambitions of the Strategic Plan, the Work Programme and the Secretariat's operational work.

Council oversees the implementation of the strategic goals and targets

The 2nd Assembly instructed the Council to monitor closely the appropriateness and applicability of the proposed SPI and amend them if necessary. In doing so, the application of the SPIs was allocated to the Secretary-General for Work Programme 1, the Hydrographic Standards & Service Committee (HSSC) for Work Programme 2 and the Interregional Coordination Committee (IRCC) for Work Programme 3 respectively.

In view of the overarching importance of the Strategic Plan to achieve the goals and targets of the Organization, the Council measures the effective implementation of the Strategic Plan through annual review of the SPI reported for the three Work Programmes, by keeping in mind to apply the principles of ISO 9001 as an important theme of the Council activities for the intersessional period towards the third Assembly in 2023.

IHO bodies striving to measure success

The fifth meeting of the Council in October 2021 was the first opportunity to reflect over the implementation of the goals and targets of the Strategic Plan 2021-2026 since its inception. The Secretary-General and the Chairs of HSSC and IRCC reported about their experimentations with the assigned SPIs in particular for meeting Goals 2 and 3.

The Council approved the suggestion to measure the notable activities under Work Programme 1 in four categories as SPIs.

- Global outreach
- Regional outreach
- Stakeholder's specific outreach
- Consultations

With the IRCC dedicated workshop on SPIs (April 2022) followed by the approval at IRCC-14 of the SPIs' definitions and metrics, the IHO established in 2022 the conditions to fully monitor the implementation of the Strategic Plan through 15 SPIs. Most of the SPIs are processed by the IHO Secretariat itself with data kindly provided by Member States, WGs, RHCs and RENCs. The metrics of a couple of SPIs are still under consideration.

GOAL 1 Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation.

On-going transformation in navigation, such as e-navigation, autonomous shipping, reduction of emissions, lead to profound evolution of hydrographic services, in a context of high demands for digital data.

Targets supporting Goal 1

- 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.



Strategic Performance Indicators validating the targets supporting Goal 1

- SP 1.1.1** Percentage of Member States having operationalized production and distribution of hydrographic data products and services based on IHO Universal Hydrographic Data Model (S-100), under an implementation framework of coordination and agreed timelines.
- SP 1.1.2** Number of hydrographic data products and services based on Universal Hydrographic Data Model that cater for the new requirements: autonomous shipping, reduction of emissions.
- SP 1.2.1** Percentage of hydrographic data products and services based on S-100 model that are covered by IHO standards, specifications and guidelines on cyber security.
- SP 1.2.2** Percentage of navigationally significant areas (e.g. charted traffic separation schemes, anchorages, channels) for which the adequacy of the hydrographic knowledge is assessed through the use of appropriate quality indicators.
- SP 1.3.1** Ability and capability of Member States to meet the requirements and delivery phases of the S100 implementation plan.

Strategic Performance Indicators for Goal 1

Work Programme Tasks related to SPI 1.1.1 and 1.1.2

- 1.1 Co-operation with International Organizations and participation in relevant meetings
- 1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring
- 2.1 Programme Coordination
- 2.2 Foundational Nautical Cartography Framework
- 2.3 S-100 Framework
- 2.4 S-57 Framework
- 2.5 Support the implementation of e-navigation and Marine Spatial Data Infrastructures (MSDI)
- 3.4 Coordination of Global Surveying and Charting Coverage
- 3.5 Maritime Safety Information

SPI 1.1.1	Metrics	Member States distribute at least one product based on S-100.						
	Year	2021	2022	2023	2024	2025	2026	60% ¹
		0%	0%	0%	0%	5%	-	60% ¹

SPI 1.1.2	Metrics	Product Specifications should be operational (e.g. Edition 2.0.0 approved by Member States.)						
	Year	2021	2022	2023	2024	2025	2026	10
		0	0	0	5	7	-	10



Work Programme Tasks related to SPI 1.2.1 and 1.2.2

1.1 Co-operation with International Organizations and participation in relevant meetings

1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring

2.1 Programme Coordination

2.2 Foundational Nautical Cartography Framework

2.3 S-100 Framework

2.4 S-57 Framework

2.5 Support the implementation of e-navigation and Marine Spatial Data Infrastructures (MSDI)

2.6 Hydrographic Surveying

2.8 Other technical standards, specifications, guidelines and tools

3.4 Coordination of Global Surveying and Charting Coverage

3.5 Maritime Safety Information

SPI 1.2.1	Metrics	10 Product Specifications (same as in SPI 1.1.2) includes cyber security and data quality assessment.						
	Year	2021	2022	2023	2024	2025	2026	100%
		0	0	0	50%	70%	-	100%

SPI 1.2.2	Metrics	Navigationally significant areas: areas covered by ENC in Usage Bands 5 to 3. Indicator: % data coverage in ENCs, where CATZOC value is other than U (Unassessed) and Unavailable.						
	Year	2021	2022	2023	2024	2025	2026	100%
	A-USCHC	83.3%	87,3%	91,3%	91,6%	-		
B-MACHC	96.1%	97,7%	91,3%	97,5%	-			
C1-SWAtHC	99.4%	99,4%	99,4%	99,4%	-			
C2-SEPRHC	86.9%	87,4%	86,2%	85,7%	-			
D-NSHC	99.5%	99,9%	99,5%	99,6%	-			
E-BSHC	92.8%	91,3%	93,30	93,5%	-			
F-MBSHC	88.6%	89,8%	89,8%	90,0%	-			
G-EAtHC	80.0%	79,4%	80,5%	80,5%	-			
H-SAIHC	93.3%	93,3%	94,4%	94,5%	-			

¹Target : 64 out of 94 IHO Member States producing S-57 ENCs

Work Programme Tasks related to SPI 1.2.1 and 1.2.2

	I-RSAHC	68.2%	67,4%	64,8%	65,1%	-
	J-NIOHC	68.3%	63,1%	63,1%	63,2%	-
	K-EAHC	51.4%	54,6%	78,8%	79,3%	-
	L-SWPHC	98.5%	98,8%	99%	99,2%	-
	M-HCA	79.0%	81,4%	81,5%	81,4%	-
	N-ARCH	18.0%	16,4%	19,2%	20,1%	-

Work Programme Tasks related to SPI 1.3.1

1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring

3.2 Regional Hydrographic Commissions and the HCA

3.3 Capacity Building

SPI 1.3.1	Metrics	Ability and capability of Member States to meet the requirements and delivery phases of the S100 implementation plan. Target 50%.						
	Year	2021	2022	2023 ¹	2024 ²	2025 ³	2026	50%
		-	Yes	53%	43%	42%	-	-

¹Response rate: 23%

²Response rate: 60%

³Response rate: 61%

GOAL 2 Increasing the use of hydrographic data for the benefit of society.

The ever-growing applications of marine data entails that IHO takes a more prominent role in cultivating the use of hydrographic data through cooperative and collaborative efforts and identifying the need for collecting more data.

Targets supporting Goal 2

- 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.

Strategic Performance Indicators validating the targets supporting Goal 2

- SP 2.1.1** Number of hits downloading data/information from the portal.
- SP 2.2.1** Percentage of adequately surveyed area per coastal state.
- SP 2.2.2** Number of new applications of the new version of Standards for Hydrographic Surveys (S-44).
- SP 2.3.1** Number of HOs reporting success applying the principles in their national contexts.



Strategic Performance Indicators for Goal 2

Work Programme Tasks related to SPI 2.1.1

1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring

3.3 Capacity Building

3.7 Marine Spatial Data Infrastructures

SPI 2.1.1	Metrics	Portal in design phase, download counting technology to be implemented.					
	Year	2021	2022	2023	2024	2025	2026
		Number of hits downloading data/information from the portal					
		-	461	456	589	524	-

Work Programme Tasks related to SPI 2.2.1 and 2.2.2

1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring

2.6 Hydrographic Surveying

2.8 Other technical standards, specifications, guidelines and tools

3.2 Regional Hydrographic Commissions and the HCA

3.3 Capacity Building

3.4 Coordination of Global Surveying and Charting Coverage

3.6 Ocean Mapping Programme

3.8 International Standards for Hydrographic Surveyors and Nautical Cartographers

SPI 2.2.1	Metrics	Technology to generate percentage figures from C-55 under discussion.					
	Year	2021	2022	2023	2024	2025	2026
		Percentage of adequately surveyed area per coastal state					
		Number of Coastal States within the percentage band of adequate surveyed areas (C55)					
	0%<= area< 25%, depth <200m		69	70	73	75	-
	0%<= area< 25%, depth >200m		82	81	86	89	-
	25%<= area< 50%, depth <200m		25	25	26	27	-
	25%<= area< 50%, depth >200m		20	20	18	20	-
	50%<= area< 75%, depth <200m		20	23	19	19	-

Work Programme Tasks related to SPI 2.2.1 and 2.2.2

	50%<= area< 75%, depth >200m	17	18	18	16	-	
	75%<= area< =100%, depth <200m	34	31	32	30	-	
	75%<= area< =100%, depth >200m	21	20	20	18	-	
		Number of RHCs within the percentage band of area mapped (GEBCO)					
	0%<= area< 25%, depth <200m	18	-	-	-	-	
	0%<= area< 25%, depth >200m	12	-	-	-	-	
	25%<= area< 50%, depth <200m	1	-	-	-	-	
	25%<= area< 50%, depth >200m	7	-	-	-	-	
	50%<= area< 75%, depth <200m	0	-	-	-	-	
	50%<= area< 75%, depth >200m	0	-	-	-	-	
	75%<= area< =100%, depth <200m	0	-	-	-	-	
	75%<= area< =100%, depth >200m	0	-	-	-	-	
SPI 2.2.2	Metrics	Number of downloads of S-44. New applications/survey methods/platforms used as a result of S-44 Edition 6.0.0.					
	Year	2021	2022	2023	2024 ¹	2025	2026
	Downloads/Applications	59/0	312/0	1312/0	-	-	-

¹Due to changes in website analytics in 2024, this metric is not available for this year

Work Programme Tasks related to SPI 2.3.1

1.1 Cooperation with International Organizations and participation in relevant meeting

1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring

3.7 Marine Spatial Data Infrastructures

SPI 2.3.1	Metrics	Extension of P-5 required.					
	Year	2021	2022	2023	2024	2025	2026
		Number of HO's reporting success applying the UN shared guiding principles for geospatial information management in order to ensure in their national contexts. % of Yes/Full (from 34 Member States)					
	Representation		72%	72%	72%	72%	-
	Governance		81%	81%	81%	81%	-
	Compliance		94%	94%	94%	94%	-

GOAL 3 Participating actively in international initiatives related to the knowledge and the sustainable use of the Ocean.

IHO's ambition is to be an effective and recognized contributor to the major Ocean related challenges identified by the international community.

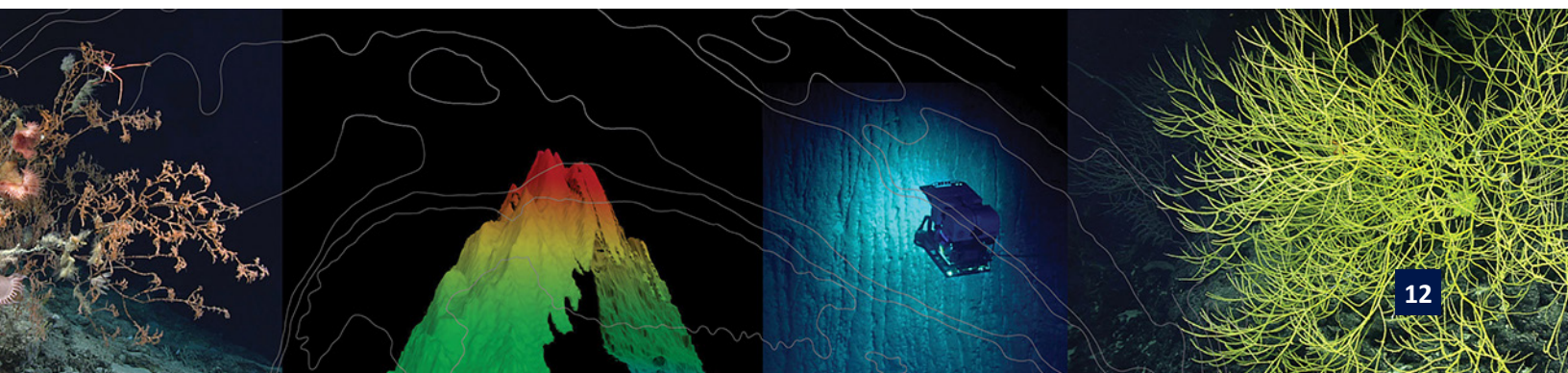
Targets supporting Goal 3

- Collaborate with other bodies who deliver capacity building and training to improve effectiveness of capacity building activities and programmes.
- Improve knowledge of the world's seafloors.
- Implement a comprehensive IHO digital communication strategy in order to enhance its visibility and accessibility to its work.



Strategic Performance Indicators validating the targets supporting Goal 3

- SP 3.1.1** Percentage of Coastal States that are able to provide marine safety information (MSI) according to the joint IMO/IHO/WMO manual on MSI.
- SP 3.2.1** Amount of data received per year by the IHO Data Centre for Digital Bathymetry (DCDB).
- SP 3.2.2** Number of contributors to DCDB who are not hydrographic offices.
- SP 3.2.3** Percentage of total sea area that is Seabed 2030 compliant for ingestion into the GEBCO dataset and services.
- SP 3.3.1** Number of visits, likes, re-postings, etc. associated to the IHO social media sites.
- SP 3.3.2** Volume downloaded from the IHO website and Geographical Information System (GIS).



Strategic Performance Indicators for Goal 3

Work Programme Tasks related to Secretariat's activities addressing Goal 3

1.3 Co-operation with International Organizations and participation in relevant meetings

3.6 Public Relations and Outreach

1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring

Metrics	Notable activities undertaken under the IHO Work Programme 1 in four categories.					
Year	2021	2022	2023	2024	2025	2026
Global outreach	13	15	15	11	9	-
Regional outreach	4	4	4	9	13	-
Stakeholder's specific outreach	15	25	21	7	8	-
Consultations	2	2	6	11	9	-

Work Programme Tasks related to SPI 3.1.1

1.1 Co-operation with International Organizations and participation in relevant meetings

1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring

3.1 Programme Coordination

3.2 Regional Hydrographic Commissions and the HCA

3.3 Capacity Building

3.6 Ocean Mapping Programme

3.7 Marine Spatial Data Infrastructures

SPI 3.1.1	Metrics	Percentage of Coastal States that are capable to provide marine safety information (MSI) according to the joint IMO/IHO/WMO manual on MSI [WWNWS and CBSC tasked to develop a collaborative approach how to measure and count.]						
	Year	2021	2022	2023	2024	2025	2026	90%
				62%	87%	89.2%	89.6%	-

Work Programme Tasks related to SPI 3.2.1, 3.2.2, and 3.2.3

1.1 Co-operation with International Organizations and participation in relevant meetings

1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring

3.1 Programme Coordination

3.2 Regional Hydrographic Commissions and the HCA





3.6 Ocean Mapping Programme

SPI 3.2.1	Metrics	Amount of data received per year by the IHO Data Centre for Digital Bathymetry (DCDB tasked to start measurement.)					
	Year	2021	2022	2023	2024	2025	2026
	Datasets/Surveys		375	180	56	427	-
SPI 3.2.2	Metrics	Number of contributors to DCDB who are not hydrographic offices (DCDB tasked to measure.)					
	Year	2021	2022	2023	2024	2025	2026
			4	3	59	423	-
SPI 3.2.3	Metrics	Percentage of total sea area that is Seabed 2030 compliant for ingestion into the GEBCO dataset and services [DCDB tasked to start measurement in collaboration with BOC (UK).]					
	Year	2021	2022	2023	2024	2025	2026
			23,4%	24,9%	26.1%	27,3%	-



Work Programme Tasks related to SPI 3.3.1 and SPI 3.3.2

- 1.2 Information Management
- 1.3 Public Relations and Outreach
- 1.4 Work Programme & Budget, Strategic Plan and Performance Monitoring
- 3.3 Capacity Building
- 3.4 Coordination of Global Surveying and Charting Coverage
- 3.6 Ocean Mapping Program

SPI 3.3.1	Metrics	Followers/Views on LinkedIn, Facebook and Twitter					
Year		2021	2022	2023	2024	2025	2026
		4263/177,600	6525/245,573	8821/322,413	10737/288,097	13596/323,780	-
		673/ 2049	954/2711	1267/27,680	1522/31500	1970/130,046	-
		566/77,200	973/58200	1175/62,100	1250/18731	-	-
		-	-	-	141/8893	554/45,177	-

SPI 3.3.2	Metrics	Volume downloaded from the IHO website and Geographical Information System (GIS)					
Year		2021	2022	2023	2024	2025	2026
IHO website views		380,946	863,322	921,575	1,237,546	817,952	-
User groups identified		5	-	-	8	8	-
Volume downloaded from GIS		-	-	-	-	-	-