



Agenda Item 4 IHO Work Programme

Corporate affairs (IHO)

BASWG17-04A

&

Outcome of the 3rd Session of the Assembly and
7th Meeting of the IHO Council

BASWG17-04B

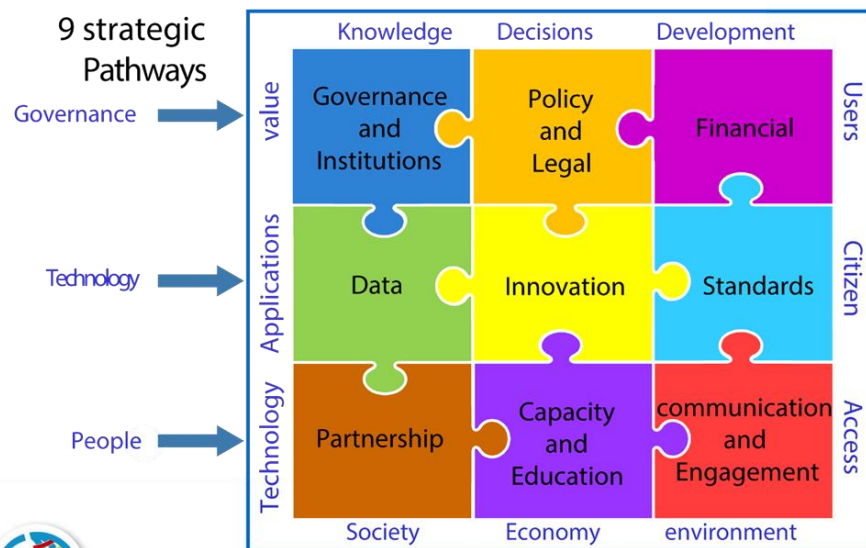
Rear Admiral Luigi SINAPI

IHO Director



UNITED NATIONS

- UNGGIM: the “*United Nations Operational Framework for Integrated Geospatial Information Management Part Two: The Strategic Pathways*” was endorsed by the Committee of Experts and both parts one and two of the UNIGIF-Hydro were adopted as the complete “*United Nations Operational Framework for Integrated Geospatial Information Management*” (UN-IGIF-Hydro).



Anchored by 9 Strategic Pathways, the Framework is a mechanism for articulating and demonstrating national leadership in geospatial information, and the capacity to take positive steps.



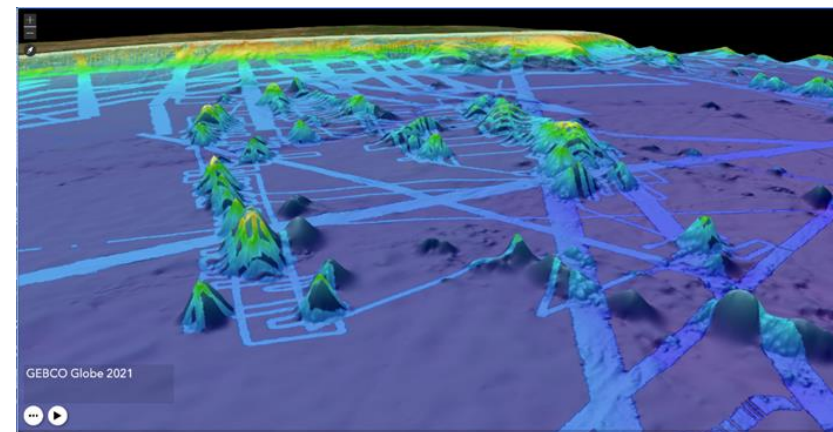


UNITED NATIONS

- DOALOS: IHO contribution on Publication on Marine Geospatial Information Management to represent the comprehensive range of marine geospatial information offered by the IHO.
- IOC/UNESCO: New GEBCO Governance & GEBCO Strategy. Participation in United Nations Decade Conference in Barcelona, April 2024 with 2 Satellite Events (IHO/OECD entitled “*The Seabed Data we Need, for the Ocean we Want*” and IHO/WMU entitled “*The People We Need for the Ocean We Want: Achieving Gender Equality for the Ocean Decade*”).



2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development



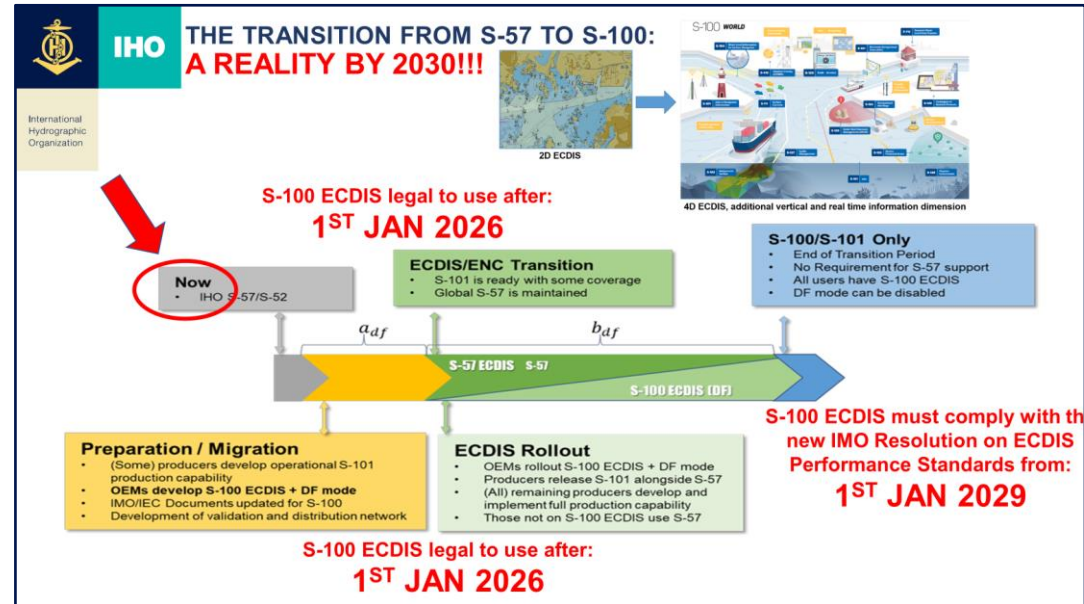


IHO COOPERATION WITH INTERNATIONAL ORGANIZATIONS

International Hydrographic Organization

- IMO: Participation in MSC, NCSR, TCC meetings, to “Update on the progress of S-100 implementation and availability of printed nautical charts” (MSC and NCSR) and Joint Capacity Building activities.

- WMU: Letter of Intent signed in 2023 with the aim to “Strengthen cooperation among both Parties, with a view to develop synergies in their actions to empower women and promote gender equality” within the framework of the UN Decade.



WMU WORLD MARITIME UNIVERSITY

INTERNATIONAL WOMEN'S DAY WEBINAR

Delivering Transformative Changes to Achieve Gender Equality

organised by
WMU-Sasakawa Global Ocean Institute and
International Hydrographic Organization

Friday 08 March 2024
Online, 14:00 - 15:30 (CET)

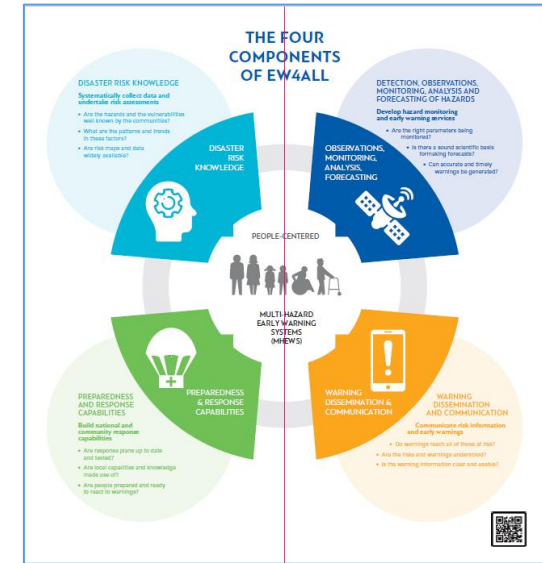
THE NIPPON FOUNDATION | Fisheries and Oceans Canada | 2023 United Nations Decade of Women's Empowerment



IHO COOPERATION WITH INTERNATIONAL ORGANIZATIONS

International Hydrographic Organization

- WMO: role of bathymetry in coastal warning/modelling systems under the Multi Hazard Early Warning System (EW4ALL) to be ready for all UN Nations by 2025/2026. Role of the S-41x series of product specifications to both disaster preparedness, response and adaptation.
- EUROPEAN UNION: IENWG, EMODNET and many European projects in favor of European Countries concerning Hydrography, Marine Spatial Planning, etc. (10th anniversary of MoU celebrated in 2022).



EW4ALL





IHO

COOPERATION WITH INTERNATIONAL ORGANIZATIONS

International Hydrographic Organization

IALA

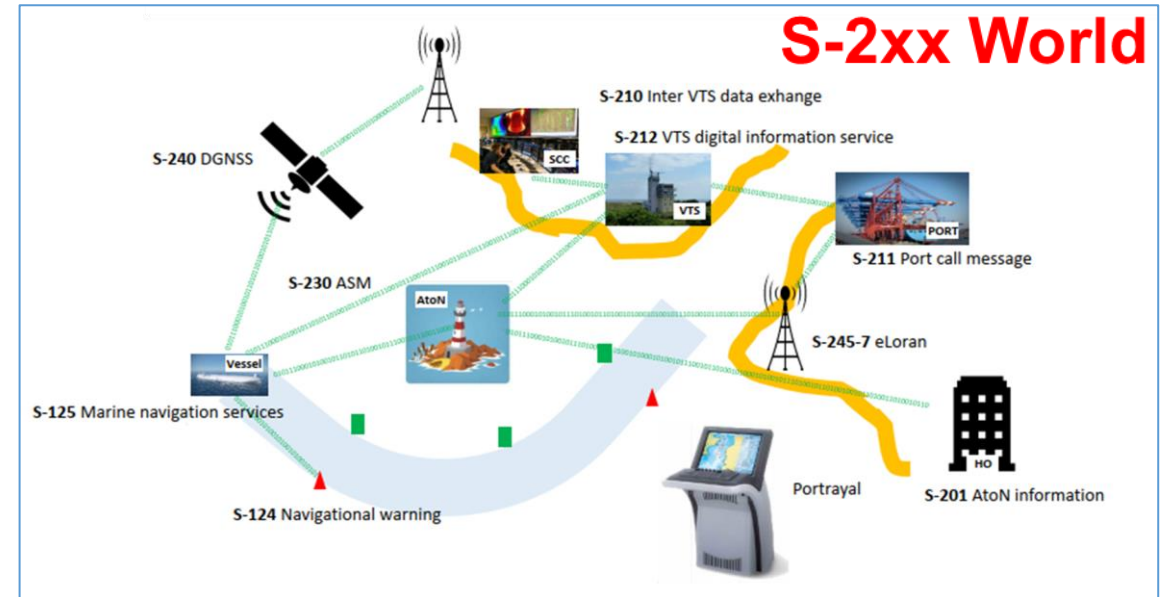
Production of S-2xx World products and cooperation in Capacity Building.

ICPC

To cooperate in the collection and exchange of standardized data and information related to submarine cables.

ICA & FIG

To cooperate in the release of certifications of Cat A & B Hydrography and Nautical Cartography Courses (via IBSC)





IHO

COOPERATION WITH INTERNATIONAL ORGANIZATIONS

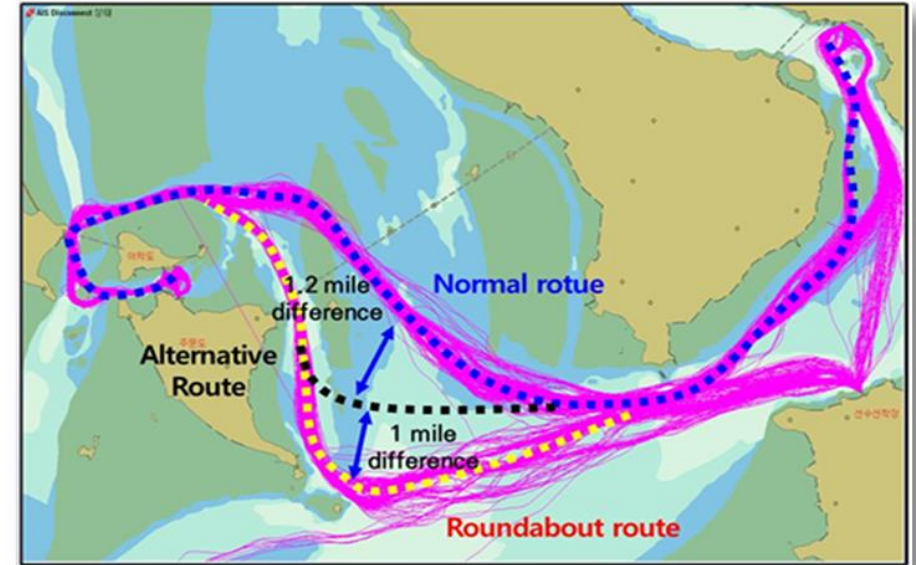
International Hydrographic Organization

IMPA

Implementation of the S-100 Universal Hydrographic Data Model and the experimentation and test-bed of S-1xx derived products at regional and national level.

CIESM

To develop regional synergies in research and monitoring of marine waters, starting with tracking hydrological change, high-resolution seabed mapping, applications for the blue economy and to contribute to the global initiatives in favor of the Ocean.



CIESM Congress 2024





IHO

COOPERATION WITH MEMBER STATES

International
Hydrographic
Organization

- IHO Secretariat: MONACO
- PROJECT OFFICERS at the IHO Secretariat: PERU, JAPAN (Nippon Foundation), ROK
- IHO WGs/COMMITTEES/PTs: 99 IHO MEMBERS
- New Membership: COOK ISLAND, KIRIBATI, SUD SUDAN, UGANDA, ISRAEL, LYBIA, PANAMA, BOLIVIA, PARAGUAY
- DCDB: USA
- GEBCO/SCUFN Gazetteer: USA and ROK



IHO

COOPERATION WITH MEMBER STATES

International
Hydrographic
Organization

- SEABED2030 & GEBCO Courses: JAPAN (Nippon Foundation)
- EWH Project: CANADA, BELGIUM, DENMARK, FRANCE, NORWAY, USA
- INTOGIS: ROK
- CAT. A & B HYDROGRAPHY & NAUTICAL CARTOGRAPHY COURSES: ROK, JAPAN (Nippon Foundation), UK, USA
- IHO-Singapore Innovation and Technology Laboratory: SINGAPORE
- IHO eLearning Center: ROK



IHO

INFORMATION MANAGEMENT (IHO WEB SITE, ENC CATALOGUE ETC.)

IHO WEB SITE

- The IHO continues its efforts in public relations and outreach, increasing its visibility via IHO website and social media;
- IHO website had a total of 921,575 views in this calendar year 2023. The LinkedIn page grew to 8,821 followers in December and reached total post impressions of 322,413.

INTOGIS (ENC & OTHER ON-LINE CATALOGUE)

- Council endorsed to focus on global thematic layers by means of the existing IHO GIS infrastructure (using INToGIS);
- INToGIS III remains the one-stop-shop platform to support the RHCs and give a worldwide vision of the S-100 plans and production, for scheming/planning availability and coverage of S-101, and other Phase I Products and ENDS (Electronic Navigation Data Services) to be in capacity at the IHO Secretariat level, on behalf of MS / RHCs, to report from 2025 onwards at IMO NCSR meetings and other Stakeholders events;



IHO

INFORMATION MANAGEMENT (IHO WEB SITE, ENC CATALOGUE ETC.)

International Hydrographic Organization

- Yearbook (P-5) and Status of Hydrographic Surveying and Charting Worldwide (C-55) are regularly updated. The IHO Online Form system has been used since March 2019 IAW CL20/2019 and CL03/2020;
- Work has continued developing a GIS database application to support C-55 - Status of Hydrographic Surveying and Charting Worldwide.

Member State	P-5 – Latest update	C-55 - Latest update
Bulgaria	July 2022	September 2009
Georgia	May 2023	May 2017
Romania	July 2023	May 2019
Russian Federation	July 2022	September 2015
Türkiye	January 2024	September 2013
Ukraine	March 2024	April 2020

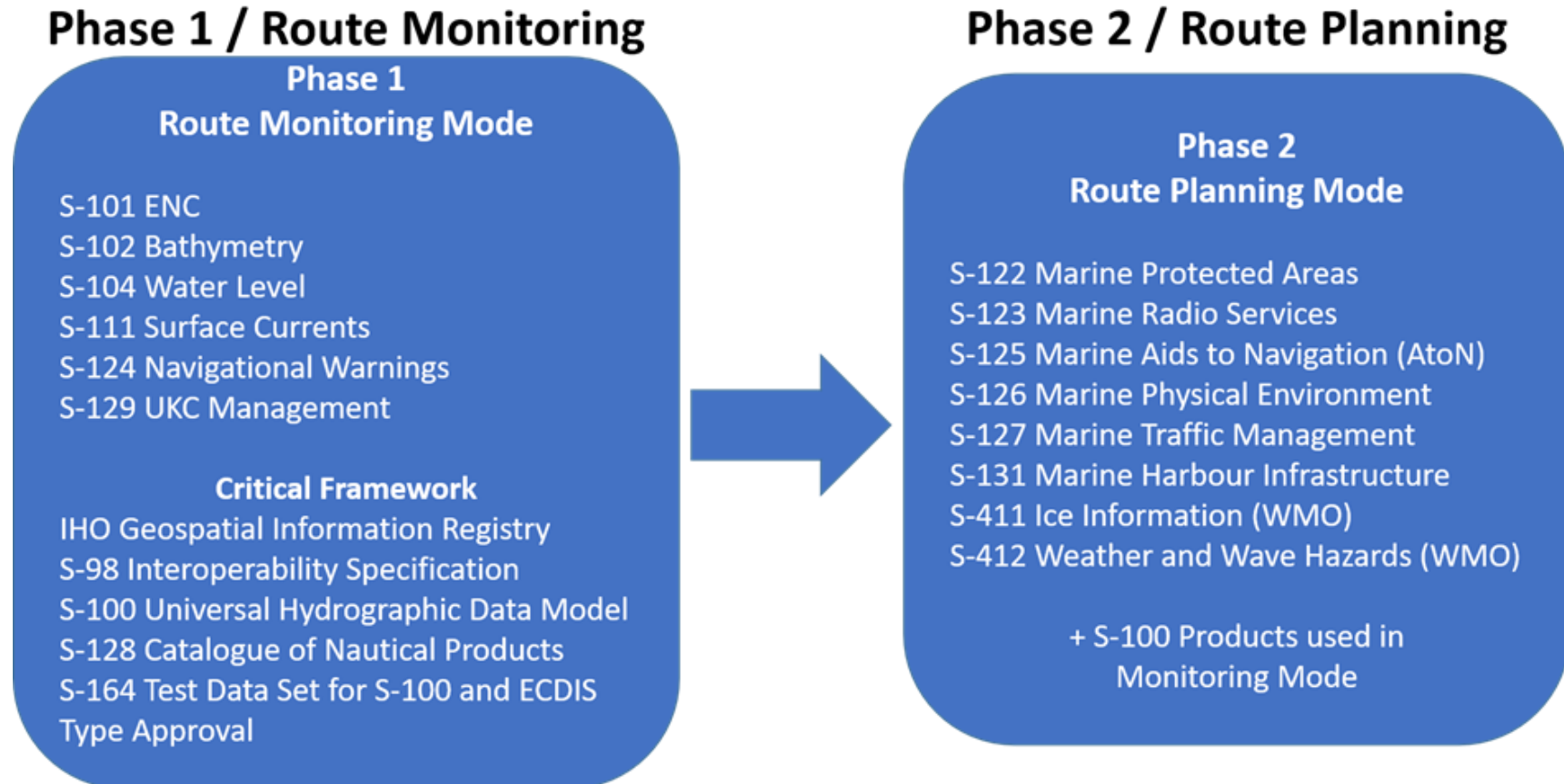


IHO

DEVELOPMENT ON TECHNICAL STANDARDS

International
Hydrographic
Organization

- For the first edition of S-98, which will handle interoperability between different layers in the future S-100 ECDIS, priority will be given to layers used in Phase 1/ Route monitoring mode. In Phase 2 layers used in route planning mode will be included.



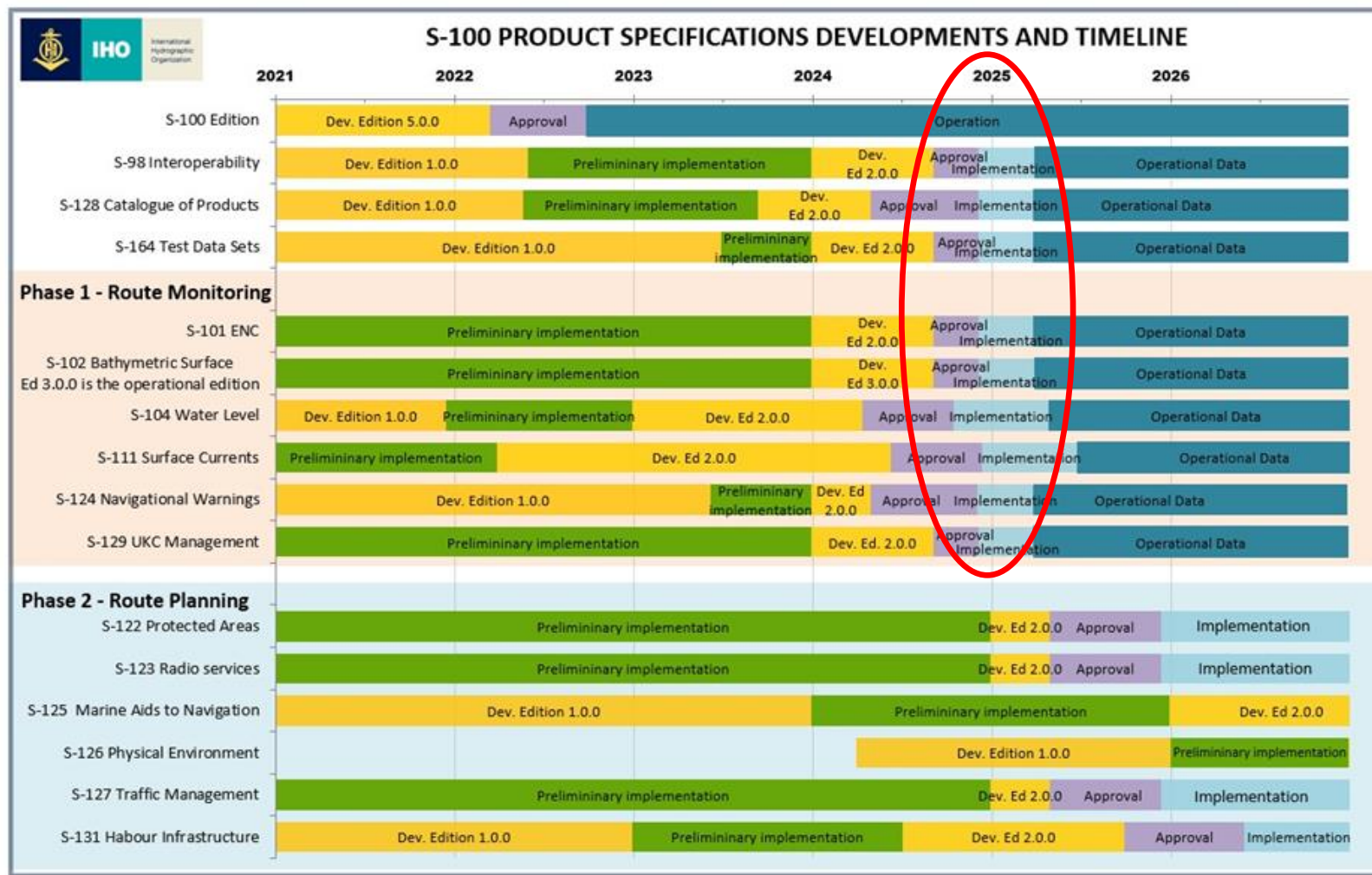


IHO

DEVELOPMENT ON TECHNICAL STANDARDS

International Hydrographic Organization

- S-100 Product Specification Developments and Timeline (Ed. November 2023):



- S-100 Ed. 5.2.0 under approval with the IHO CL 18/2024.



IHO DEVELOPMENT ON TECHNICAL STANDARDS

International Hydrographic Organization

- Roadmap for the S-100 Implementation Decade, version 3.0, October 2023 available at link: <https://iho.int/en/s-100-implementation-strategy> (with new Synoptic Diagram on Options for HOs for Parallel Production of S-101 and S-57 ENC):

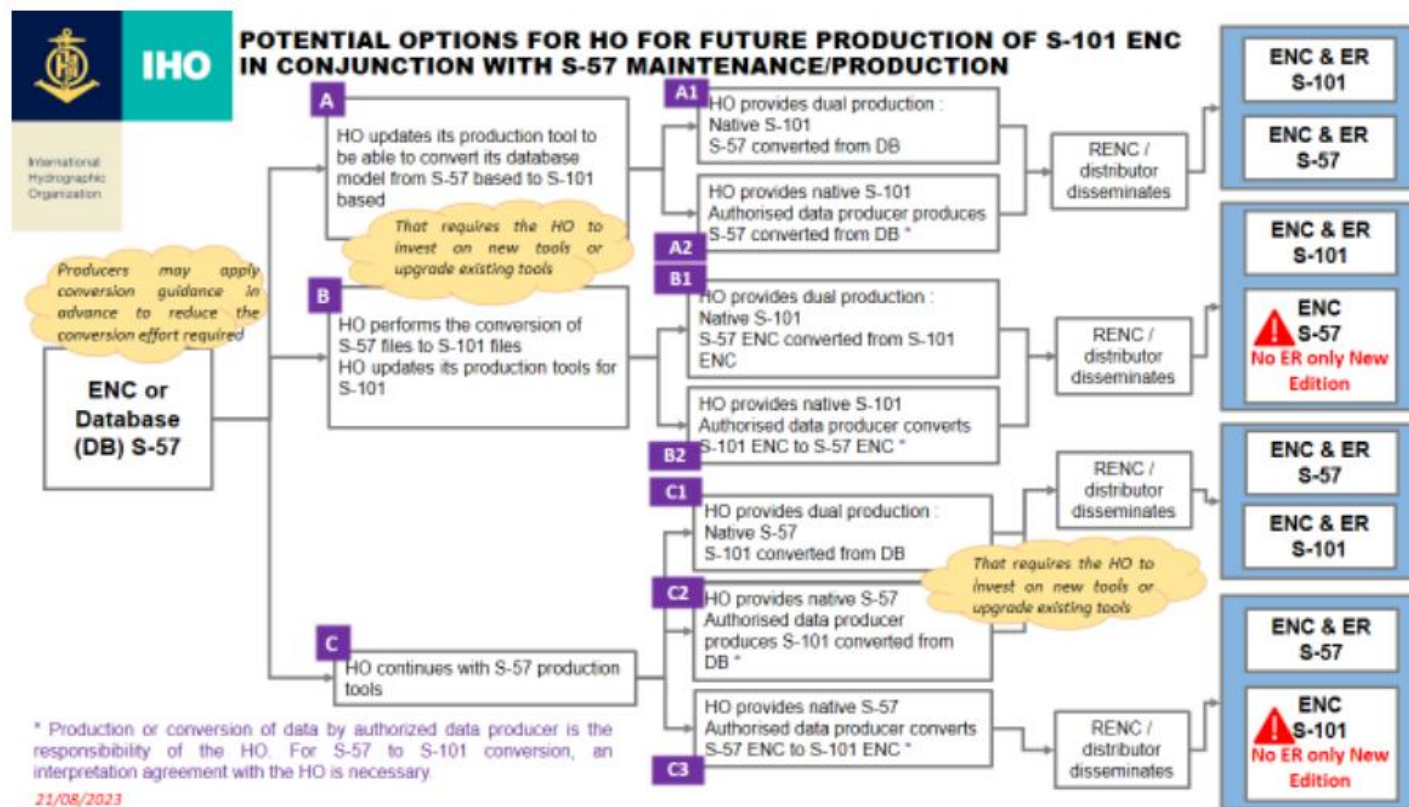


Figure 4 Potential options for HOs for future production of S-101 ENCs in conjunction with S-57 maintenance/production (Doc. C7-04.4B Rev2 refers)



IHO DEVELOPMENT ON TECHNICAL STANDARDS

International Hydrographic Organization

- Please note CL 43/2023 – 2024 timeline for advancing S-100 Phase 1 (route monitoring) product specifications:

Task	IHO CL issue date	MS Response Due
S-100 Edition 5.2.0	January 2024	May 2024
S-100 Phase 1 Endorsement	October 2024	December 2024

- The IHO Secretariat will update the Maritime Safety Committee 108th session on the progress on the development and implementation S-100 in future S-100 ECDIS in accordance with resolution MSC.530(106).

SPI 1.3.1 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 ¹	2023 ²	2024	2025	2026	50%
		-	Yes	53%	-	-	-	-

¹The SPI measures the ability and capability to meet the requirements, not the production itself.



IHO

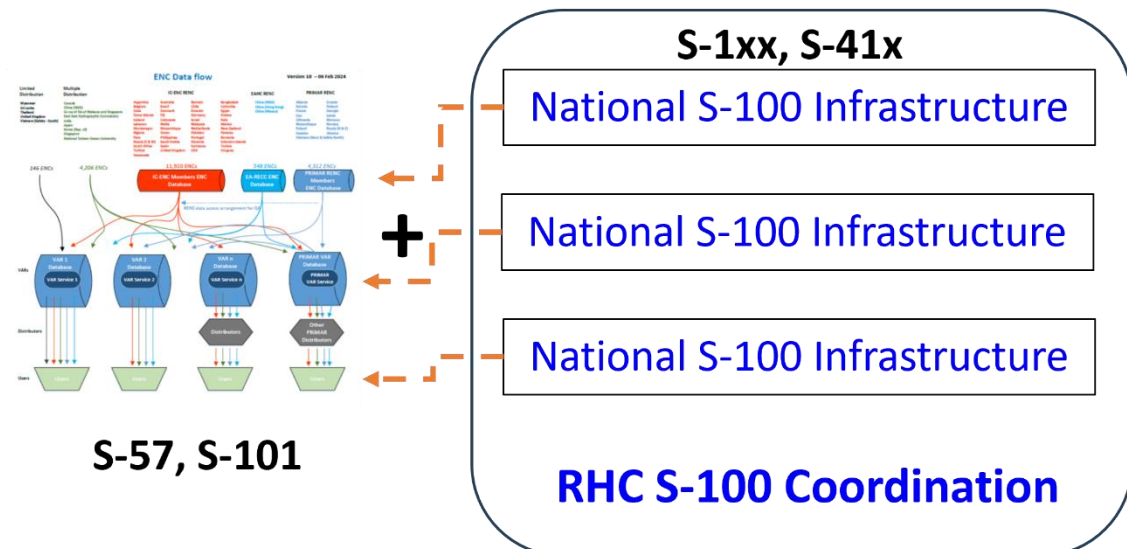
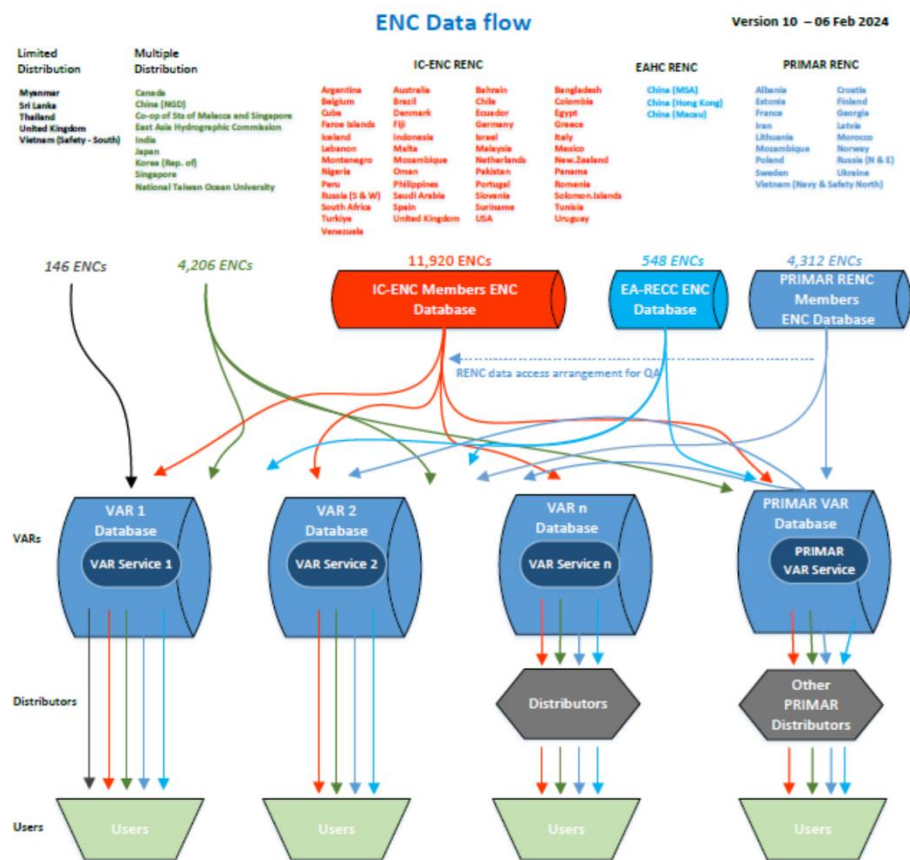
DEVELOPMENT ON TECHNICAL STANDARDS

International Hydrographic Organization

7. From S-57 ENC Data Flow

to

S-100 Data Flow



Source: RENCs. Available on WENDWG >... > [Repository](#)

- Supported by
- S-98, S-100, S-164, S-128
 - S-11 Part C, INTogIS III
 - IHO S-100 Infrastructure inc. S-100 Security Scheme, S-100 Communication Strategy



IHO

DECISIONS OF 3RD SESSION OF IHO ASSEMBLY OF INTEREST TO THE BASWG

International
Hydrographic
Organization

- DECISION 8
- DECISION 13
- DECISION 14
- DECISION 19
- DECISION 20
- DECISION 27





IHO

OUTCOMES OF 7TH MEETING OF THE IHO COUNCIL OF INTEREST TO THE BASWG

IHO Council, Secretariat, 17-19 October 2023



- S-100 Infrastructure and Standards Development (C7/09): Set up a sustainable technical and administrative infrastructure around S-100 including standards development to meet the S-100 timeline;
- Champion of Hydrography Award (C7/16): IHO CL 6/2024 - Call for the approval of the IHO Resolution on the Proposed *Ex Abyssis ad Alta – IHO Award for Hydrographic Excellence*



IHO OUTCOMES OF 7TH MEETING OF THE IHO COUNCIL

International
Hydrographic
Organization

- Project Team on Fund Generation of IHO' Project Initiatives under the IRCC (C7/22): CL 42/2023 and CL 16/2024 announced the creation of the Project Team and its composition respectfully (the first virtual meeting will be held in April 2024)
- Gender Balance in Hydrography (C7/24): A follow-up to the successful Empowering Women in Hydrography Project
- IRCC Workshops on IBSC and CSBWG (C7/25): So far IHO CL 14/2024 - IRCC Workshop on CSB on 26 April 2024, IHO Secretariat Hybrid Event
- Update on the Joint IHO-Singapore Innovation and Technology Laboratory (C7/29): Projects on S-131 Marine Harbour Infrastructure Database (MHID) - Development of S-57 to S-101 Conversion Guidance Document - Creation and Test-Bedding of ECDIS capable of displaying S-102 (Phase 1) and S104 (Phase 2) on S-101 ENCs



IHO OUTCOMES OF 7TH MEETING OF THE IHO COUNCIL

International
Hydrographic
Organization

- Strategic Plan 2021-2026 (C7/36 – C7/38): The current structure is still relevant at conceptual level (vision, goals, etc.), and agreed that the objective for the next SP 2027-2032 should be limited to a revision of the current SP, welcomed the offer from the Council Vice-Chair, to lead a correspondence group on the ways and means to prepare the next IHO Strategic Plan 2027-2032
- IHO Resolution Guidelines for Making IHO Events More Inclusive (C7/40)
- S-122 – Marine Protected Areas (MPA) (C7/44): The IHO Secretariat to establish liaison with relevant data providers of MPAs and IRCC through the MSDIWG to establish a pilot project for the High Sea and MPAs adopted by IMO, to demonstrate the benefits of S-122 for non-navigation purposes.



IHO

STRATEGIC PLAN 2021-2026 – PERFORMANCE INDICATORS OF INTEREST OF RHCS → MBSHC → BASWG (IHO P-7 ED. 2024)

International Hydrographic Organization

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



Thank you for the attention!

