

SWPHC18 – IHO Strategic Plan 2021-2026: GAP Analysis

(Ref: IHO Strategic Plan 2021-2026)

SWPHC18-12F



Members, Associate Members and Observer States

Coastal State:

GOAL	Target	Current State	Gap	Actions
<p>Goal 1: Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> - Engagement in IHO committees and WGs involved in the development of the S-100 series - Instruction of the French Prime Minister setting up the framework and encouraging the digitalization of nautical information as much as possible - Participation to the drafting of the IHO WEND100 Principles resolution - Set-up of Shom innovation laboratory to prototype S-1xx new products and coordinate innovation initiatives 	<ul style="list-style-type: none"> - no operationalised production and distribution of S-100 data products and services yet - no operational standards for most of S-1XX products - lack of strong cooperation with national harbour authorities 	<ul style="list-style-type: none"> - Establishment of Shom’s S-100 roadmap on going, with the goals for 2025 to convert Shom ENC portfolio from S-57 to S-101 and to produce data directly in S-101 and convert ENC cells to S-57 on the fly during the “Dual fuel” period - Studies and experimentations to prepare the production of S-101 ENC, S-102, S-104, S-111 and development of testing data sets - Renewed bathymetric production system for deconfliction and generalization processes to speed up production of ENC and S-102 - Navigational warning issuing system under development in anticipation of S-124 data delivery, in cooperation with the national maritime administration

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		- New edition of the standards for hydrographic surveys S-44 (Edition 6.0.0)		- Promote new edition of the standard in community - Assistance to contracting authority in harbour administrative zone



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<p>Goal 2: Increasing the use of hydrographic data for the benefit of society</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> - National program for hydrography essentially covering safety of navigation requirements, updated every year and published every 4 years <hr/> <ul style="list-style-type: none"> - National portals provide a referential for marine data (eg. data.shom.fr and maritimelimits.gouv.fr) <hr/> <ul style="list-style-type: none"> - C-55 computed from CATZOC attributed for each survey and updated using the online form when RHC French national report published - France is member of C-55 Review Project Team <hr/> <ul style="list-style-type: none"> - Research part of project Bathysat on satellite-derived bathymetry, completed. - Data (satellite images) readily accessible (for cost or no cost). Few production tools (high costs) 	<ul style="list-style-type: none"> - Some areas still inadequately surveyed - National program for hydrography not very dynamic and not covering all environmental and economical requirements <hr/> <ul style="list-style-type: none"> - Some data still missing on the portals <hr/> <ul style="list-style-type: none"> - C-55 “Hydrographic surveying” indicator variable depending on the implementation by coastal States. Lack of consistent methodology to implement this indicator <hr/> <ul style="list-style-type: none"> - Missing standards enabling an assessment of the quality/usability of SDB data 	<ul style="list-style-type: none"> - Surveys planned to improve adequate coverage - National program for hydrography is being improved for a more modern and dynamic tool (including GIS and AI) and being publicised to encompass more user requirements <hr/> <ul style="list-style-type: none"> - Add new data layers as reference : display, download and web services <hr/> <ul style="list-style-type: none"> - C-55 RPT is studying the possibilities to automate C-55 “hydrographic surveying” calculations from CATZOC and to take advantages of GIS tools to improve its use by international organisations <hr/> <ul style="list-style-type: none"> - Starting of the development part of project Bathysat (SDB) to realize a prototype of the future line production

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GOAL	Target	Current State	Gap	Actions
<p>Goal 3: Participating actively in international initiatives related to the knowledge and the sustainable use of the Ocean</p>	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> France participation to the EU EMODnet bathymetry project and the worldwide GEBCO Seabed 2030 project Shom is holding the TSCOM Chair <hr/> <ul style="list-style-type: none"> France involved in the IHO e-learning Project Team Currently Shom has developed a French MSI MOOC available on CIDCO website <hr/> <ul style="list-style-type: none"> France assisting HOs to develop their hydrographic and cartographic capacities (eg. Morocco) Shom hosts foreign students in its school for hydrography and cartography training Shom providing assistance to shipyards for the construction of hydro-oceanographic vessel and in particular for the integration of the scientific equipment, training and transfer of skills 	<ul style="list-style-type: none"> Although technically interoperable the different initiatives and associated web services do not hold the same content (metadata) <hr/> <ul style="list-style-type: none"> Currently no strategy at international level to provide distant courses in the fields of hydrography, MSI, nautical charts... 	<ul style="list-style-type: none"> To help TSCOM (most likely with DCDB) to get a better understanding of the existing web services and/or suggest to follow those already successful (IHO DCDB, EMODnet Bathymetry) <hr/> <ul style="list-style-type: none"> Take advantage of the development of IHO e-learning centre to coordinate and develop new MOOC or other distant training