Coastal States in the MACHC Region

**Coastal State: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

| **GOAL** | **Target** | **Current State** | **Gap** | **Actions** |
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| **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)](https://iho.int/uploads/user/pubs/standards/s-100/S-100_Ed%204.0.0_Clean_17122018.pdf) not implemented
* engagement in IHO and MACHC Committees/WGs
 | 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](https://iho.int/en/s-100-implementation-strategy)
* lack of support from Government institutions for maritime navigation
* lack of understanding of maritime navigation transformation
 | e.g.* participation of coastal State at the IHO and MACHC Committees/WGs
* assistance sought from IHO, Primary Charting Authority, MACHC, IOCARIBE, IALA, IMO
* ensure adequate institutional arrangements in place for Hydrographic Governance
* capacity building activities through [IHO Capacity Building Strategy](https://docs.iho.int/mtg_docs/CB/IHO_CB_Strategy_EN.pdf) or other donor organisations
* engage with relevant Government departments and the Maritime Safety Authority to increase aware and support for [e-Navigation](https://www.imo.org/en/OurWork/Safety/Pages/eNavigation.aspx)
* prepare business case for [e-Navigation strategy](https://wwwcdn.imo.org/localresources/en/OurWork/Safety/Documents/enavigation/MSC%2085%20-%20annex%2020%20-%20Strategy%20for%20the%20development%20and%20implementation%20of%20e-nav.pdf)
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| **GOAL** | **Target** | **Current State** | **Gap** | **Actions** |
| **Goal 2: Increasing the use of hydrographic data for the benefit of society** | * 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](http://ggim.un.org/meetings/GGIM-committee/documents/GGIM5/statement%20of%20shared%20guiding%20principles%20flyer.pdf) in order to ensure interoperability and extended use of hydrographic data in combination with other marine-related data
 | 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)](https://ggim.un.org/IGIF/overview/) action plans developed
* refer to [IHO Publication C-55 “Status of Hydrographic Surveying and Nautical Charting Worldwide”](https://iho.int/uploads/user/pubs/cb/c-55/c55.pdf)
* use of [IHO Publication S-44 “International Hydrographic Organization Standards for Hydrographic Surveys”](https://iho.int/uploads/user/pubs/standards/s-44/S-44_Edition_6.0.0_EN.pdf)
 | e.g.* multiple areas inadequately surveyed
* data is poorly managed, unavailable and not shared i.e. open, free and unrestricted
 | e.g.* engage with Primary Charting Authority (PCA) to prepare hydrographic survey programme
* prepare survey specifications using IHO Publication S-44
* Implement FAIR data principles
* Implement UN-GGIM IGIF
* Provide data to existing portals, such as [IHO DCDB](http://www.ngdc.noaa.gov/iho/)
* assistance sought from IHO, Primary Charting Authority, MACHC, IOCARIBE, IALA, IMO
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| **GOAL** | **Target** | **Current State** | **Gap** | **Actions** |
| **Goal 3: Participating actively in international initiatives related to the knowledge and the sustainable use of the Ocean** | * 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
 | e.g.* refer to Strategic Performance Indicators (SPI)
* no Maritime Safety Information (MSI) capability
* engage with MACHC Capacity Building (CB) activities
* lack of knowledge and awareness of [UN Decade of Ocean Science](https://en.unesco.org/ocean-decade) or [Seabed 2030 Project](https://seabed2030.org/)
* data contributed to [IHO Data Centre for Digital Bathymetry (IHO DCDB)](http://www.ngdc.noaa.gov/iho/) and Seabed 2030 Project
* Crowdsourced Bathymetry (CSB) initiatives supported
* no digital communications strategy for hydrography
 | e.g.* need to achieve IHO CB Strategy Phase 1
* increase Government knowledge and support for UN Decade of Ocean Science
* seafloor data is poorly managed, unavailable and not shared i.e. open, free and unrestricted
* no support for hydrography comms
 | e.g.* engage with regional CB activities i.e. MACHC, IOCARIBE, 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 Project
* engage with Seabed 2030 Project to install bathymetric data loggers for CSB initiatives
* seek support to develop a communications strategy
* contribute papers to the [International Hydrographic Review (IHR)](https://ihr.iho.int/) and other seabed publications
* develop social media strategy
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