

SWPHC18 – IHO Strategic Plan 2021-2026: GAP Analysis


(Ref: IHO Strategic Plan 2021-2026)

SWPHC18-12G



Members, Associate Members and Observer States

Coastal State: New Zealand

GOAL 1	Target	Current State	Gap	Actions
Goal 1: Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation	<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 			Actions towards achieving Goal 1: LINZ publish and share document: <i>Preparing New Zealand for e-Navigation September 2020 - Implementation and Adoption of the S-100 UNIVERSAL HYDROGRAPHIC DATA MODEL – Sep 2020</i>  Preparing New Zealand for e-Navig; LINZ initiate Project Janus Phase 1: investigation and S-100 implementation plan by 2022.
Strategic Performance Indicators SPI 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 (2026: 100%)	0%	100%	Project Janus Phase 1
SPI 1.2	Number of hydrographic data products and services based on the Universal Hydrographic Data Model that cater for the new requirements: autonomous shipping, reduction of emissions	Nil	S-101, S-104 & others to be determined	Project Janus Phase 1

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GOAL 1	Target	Current State	Gap	Actions
SPI 1.3	Percentage of hydrographic data products and services based on the S-100 model that are covered by IHO standards, specifications and guidelines on cyber security (2026: 100%)	0%	100%	Project Janus Phase 1
SPI 1.4	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 (2026: 100%)	100%	0%	Appropriate quality indicators (M_QUAL CATZOC) are assigned as part of LINZ business process.
SPI 1.5	Ability and capability of Member States to meet the requirements and delivery phases of the S-100 implementation plan (2026: 50%)	0%	50%	Project Janus Phase 1

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GOAL 2	Target	Current State	Gap	Actions
Goal 2: Increasing the use of hydrographic data for the benefit of society	<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 			Actions towards achieving Goal 2: <ul style="list-style-type: none"> NZ marine geospatial information working group (NZMGI WG) established to raise awareness of the value of marine and hydrographic data, promoting the benefits of F.A.I.R marine spatial data, and enabling collaboration across NZ organisations (Public and Private sectors). NZ organisations undertaking marine and hydrographic data stocktakes and sharing data inventories to the public through www.data.govt.nz. Encouraging the use of recognised geospatial standards including IHO standards, geospatial metadata standards, OGC standards and consistent survey collection standards. NZ Government has an open data policy LINZ is improving its foundational capabilities in the management, storage, interoperability and sharing of geospatial data to better prepare for our digital future
Strategic Performance Indicators SPI 2.1	Number of hits downloading data/information from the portal	Study completed of NZ MGI data portals.		LINZ Data Service (LDS) analytics
SPI 2.2	Percentage of adequately surveyed area per coastal state	Percentage of adequately surveyed area (ref C-55): <ul style="list-style-type: none"> 79% (<200m) 3% (>200m) 		LINZ HYPLAN New Zealand Long-Term Prioritised Hydrographic Survey Plan, August 2020 Identify other sources of NZ bathymetry

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SPI 2.3	Number of new applications of the new version of Standards for Hydrographic Surveys (S-44)	LINZ HYSPEC - Contract Specifications for Hydrographic Surveys Version 2.0, June 2020		LINZ HYSPEC based on IHO S-44
SPI 2.4	Number of HO's reporting success applying the principles in their national contexts (2026: 70%)	See above - NZ actions towards achieving Goal 2	70%	LINZ review and audit against UN-GGIM IGIF Part 1 & Part 2

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GOAL 3	Target	Current State	Gap	Actions
Goal 3: Participating actively in international initiatives related to the knowledge and the sustainable use of the Ocean	<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 			Actions towards achieving Goal 3: NZ Aid programme; <ul style="list-style-type: none"> SWP Regional Hydrography Programme (SWPRHP) Pacific Regional Navigation Initiative (PRNI) Pacific Maritime Safety Programme (PMSP) Contribution towards IHO funded SWPHC CB activities MSI provided as NtM, CNW and NAVAREA XIV warnings. NZ is the Nippon Foundation-GEBCO Seabed 2030 Project, South and West Pacific Ocean Regional Centre – SaWPaC (LINZ, GNS, NIWA) NZ responded positively to IHO CL 11/2019 Annex B ACCEPTANCE OF CROWDSOURCED BATHYMETRY ACTIVITIES IN NATIONAL WATERS OF JURISDICTION LINZ bathymetry and ENC depths available from LINZ Data Service (LDS) and IHO DCDB
Strategic Performance Indicators SPI 3.1	Percentage of Coastal States that are capable to provide marine safety information (MSI) according to the joint IMO/IHO/WMO manual on MSI (2026: 90%)	NZ is capable of providing MSI according to joint IMO/IHO/WMO manual on MSI	Nil	Support the delivery of MSI training in SWPHC to achieve IHO CB Strategy Phase 1
SPI 3.2	Percentage of Coastal States that are able to provide marine safety information (MSI) according to the joint IMO/IHO/WMO manual on MSI (2026: 90%)	NZ is able to provide MSI according to joint IMO/IHO/WMO manual on MSI	Nil	Support the delivery of MSI training in SWPHC to achieve IHO CB Strategy Phase 1

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SPI 3.3	Number of contributors to DCDB who are not hydrographic offices	IHO DCDB to advise		IHO DCDB to advise
SPI 3.4	Percentage of total sea area that is Seabed 2030 compliant for incorporation into the GEBCO dataset and services	Seabed 2030 Project to advise		Seabed 2030 Project to advise
SPI 3.5	Number of visits, likes, re-postings, etc. associated with the IHO social media sites	IHO Secretariat to advise		IHO Secretariat to advise
SPI 3.6	Volume downloaded from the IHO website and Geographical Information System (GIS)	IHO Secretariat to advise		IHO Secretariat to advise