

SWPHC22-18

Develop Capacity Building Strategy



IHO

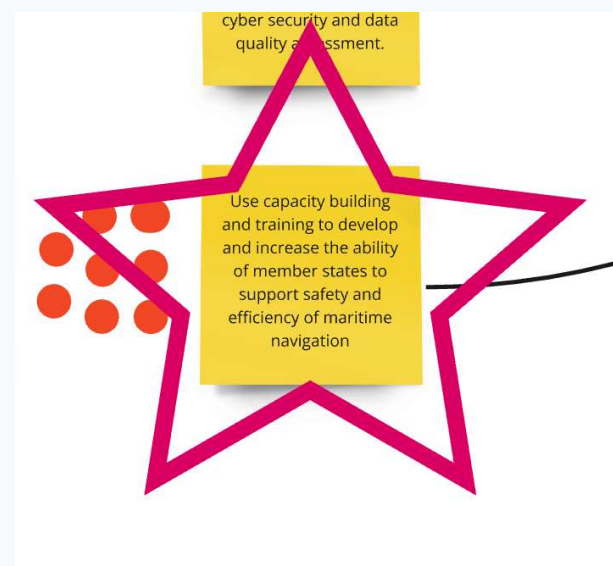
International
Hydrographic
Organization

SWPHC22 Meeting 04/03/2025



Purpose of workshop

- Task:
 - Develop a 3 to 5-year CB Strategy for SWPHC
- SWPHC21 - What we heard...
- It's not just about training opportunities
- IHO Strategic Plan new Goal 3 – Capacity Building
- S-100 Implementation – “no country left behind”



IHO

International
Hydrographic
Organization



IHO Capacity Building Strategy Phases

Phases:

0. Unaware of its national obligations
1. Aware of its national obligations but need to improve their processes. Collection and circulation of nautical information, necessary to maintain existing charts and publications up to date.
2. Creation of a surveying capability to conduct;
 - Coastal projects
 - Offshore projects
3. Produce paper charts, ENC and publications independantly

PHASES OF DEVELOPMENT OF HYDROGRAPHIC SURVEYING AND NAUTICAL CHARTING CAPABILITY

Phases of Development	National Activity
Phase 0 Unaware of its national obligations	<ul style="list-style-type: none"> The country does not have a National Authority (NA) and/or National Hydrographic Coordinating Committee (NHCC) Need to raise maritime awareness Need to create infrastructure to collect and circulate maritime safety information Need to strengthen links with NAVAREA Coordinator to enable the promulgation of safety information Form National Authority (NA) and/or National Hydrographic Coordinating Committee (NHCC)
Phase 1 Aware of its national obligations but need to improve their processes. Collection and circulation of nautical information, necessary to maintain existing charts and publications up to date	<ul style="list-style-type: none"> Create/improve current infrastructure to collect and circulate information Strengthen links with charting authority to enable updating of charts and publications Minimal training needed Strengthen links with NAVAREA Coordinator to enable the promulgation of safety information Keep a National Structure to prevention or mitigation of consequences of marine disasters or climate change
Phase 2 Creation of a surveying capability to conduct: <ul style="list-style-type: none"> Coastal projects Offshore Projects 	<ul style="list-style-type: none"> Establish capacity to enable surveys of ports and their approaches Maintain adequate aids to navigation Build capacity to enable surveys in support of coastal and offshore areas Build capacity to set up hydrographic databases to support the work of the NA/NHCC Provide basic geospatial data via MSDI Requires funding for training, advising & equipment or contract survey
Phase 3 Produce paper charts, ENC and publications independantly	<ul style="list-style-type: none"> The need shall be thoroughly assessed. Requires investment for production, distribution and updating Alternatively, bi-lateral agreements for charting can provide easier solutions in production and distribution (of ENC through RENCs) and rewards. Further development of MSDI



IHO

International
Hydrographic
Organization



SOLAS Chapter V obligations

Regulation 9 - Hydrographic services

- 1 Contracting Governments undertake to arrange for the collection and compilation of hydrographic data and the publication, dissemination and keeping up to date of all nautical information necessary for safe navigation.



IHO

International
Hydrographic
Organization



Capacity Building Audit

Ideas for Future Capacity Building Efforts:

- Equipment donations (and resource tails)
- Software and training
- Legal consulting
- Institutional Arrangement focused *Technical Visits*
- More Hydrographic Governance
- PCA led *familiarization* workshops



IHO

International
Hydrographic
Organization



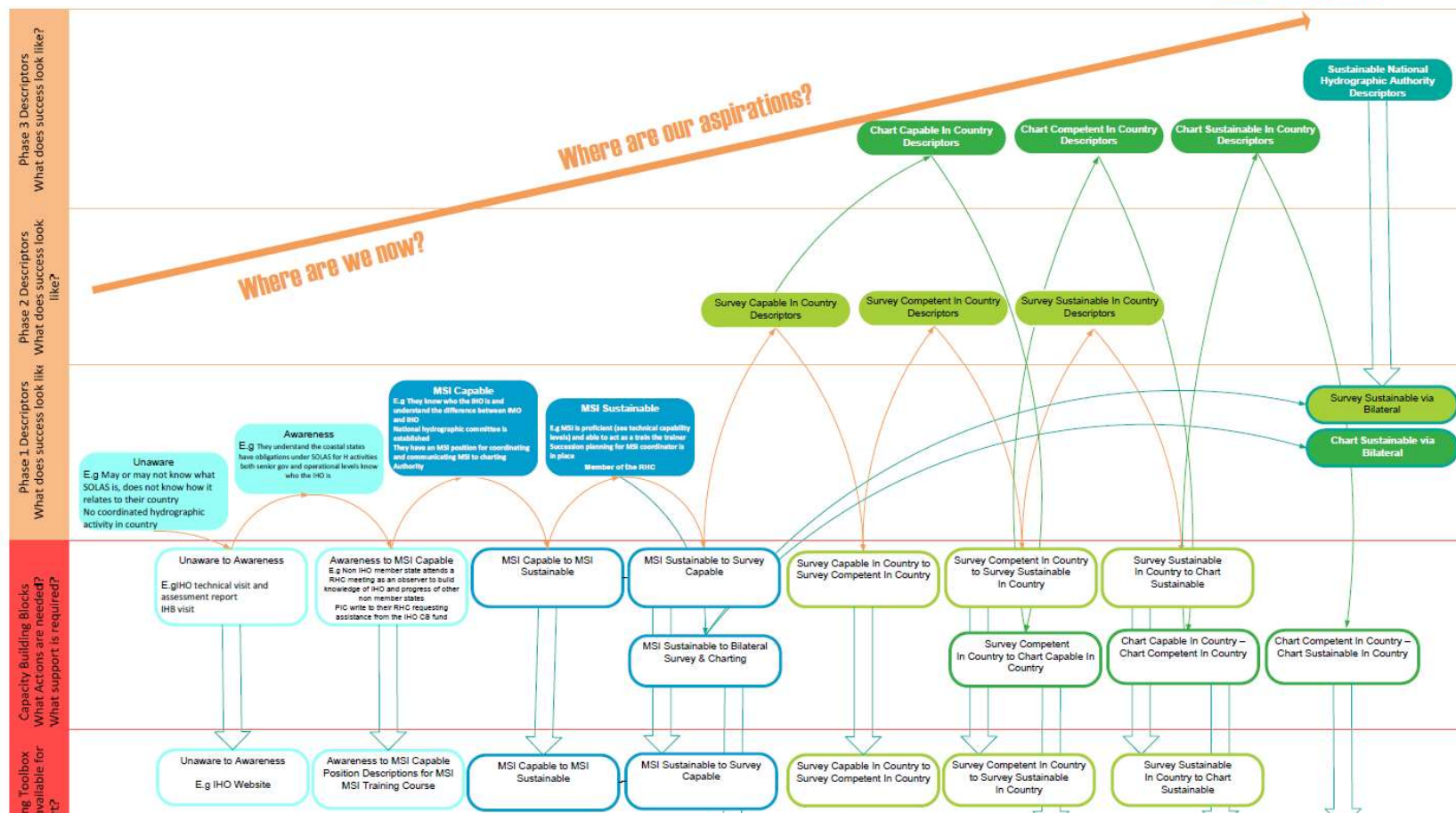
IHO CB Phases – PICTs status

Country (last change)	SWPHC Status	IHO Member	Bilateral (Y/N)	Phase 1			Phase 2		Phase 3		PCA
	FM/AM/O					Hydro Survey		Charting			
								In-house	Bilateral	In-house	
PNG (SWPHC18 Feb 2021)	FM	Y	Y	MoU btwn PNGDoT & AU DoD	Yes. Nick Pion (NMSA) Comms with AHO for NTM Engagement with AMSA to be a focus for AMSA (NAVAREA X Coordinator)	NMSA - Maritime Safety Committee meeting (1 per yr), AHO attend 1 per yr		Yes, with AHO	Distrubution of paper charts, thro AHO POD	Yes, with AHO, including paper charts and ENCs	AU
Cook Islands (SWPHC20 Feb 2023)	AM	X - aspiration to join	Y - with NZ	National Hydrographic Office established under ICI; MSI under MoT. Legislation to follow	Saungaki Rasmussen (MSI) officer resigned from MOT, position to readvertised	Cook Islands National Hydrography Coordinating Committee (CINHCC) 6 monthly or maritime emergency concerning the safety of navigation		Yes, with NZ		Yes, with NZ	NZ
Samoa (SWPHC21 Feb 2024)	FM	Y	Y - with NZ	NHCC is in the process of their Workplan towards implementing the important provisions of the Shipping Act 1998 in relation to Hydrographic matters. SPC SoN visit scheduled March 2018 - completed	MSI Coordinator is the CEO Ministry of Works, Transport & Infrastructure Fui Tupai Mau Suimanu See NAVAREA XIVreport re MSI coordinator contacts	NHCC established in May 2017. Plan to meet annually	No hydrographic survey boat, and no equipment etc	Yes LINZ New Zealand	No Syetem install yet	Yes, with NZ	NZ
Tonga (SWPHC17 Feb 2020)	FM	Y	Y, with NZ	Investigating funds to establish Governance Late 2019 investigation hydro legislation	Yes, Director MPD	NHCC in place, last met Oct 2017				Yes, with NZ	NZ
Fiji (SWPHC21 Feb 2024)	FM	Y	Y, with UK	Maritime Transport Decree (MTD) in force Sept 2014, provision for hydro services	Yes. Maritime Safety Authority of Fiji, Sunil Kumar	In process of re-establishing NHC in 2024.	1 Survey Motor Boat and 2 survey vessel		Developing	Yes, with UKHO	UK
Kiribati (SWPHC20 Feb 2023)	AM	in progress	Draft cooperation agreement 2016 in progress	NGCC established, with future subset to be an NHCC	Established a Natonal MSI Coordinator	in process in next year		UKHO and IIC via grant		Yes, with UKHO	UK

CB Maturity Model

DRAFT

Hydrographic Capability Maturity Model for Capacity Building



CB case studies - overview

- Solomon Islands
- Pacific Regional Navigation Initiative (NZ)
- HLP2 (SWPHC + EAHC)
- Technical training opportunities
 - S-5B Hydro
 - S-8B Carto



IHO

International
Hydrographic
Organization



We're not alone!

- Partnerships – IMO, IHO, Regional bodies

14. Long Term Objectives:

- a. To enable all states which have navigable waters to achieve Phase 1 of development (i.e. timely collection and promulgation of hydrographic information for their national waters), and to develop a national plan to put in place appropriate elements of Phases 2 and 3 or alternative cooperative regional or bilateral arrangements.
- b. In conjunction with the IMO's Technical Cooperation Committee and IALA's World Wide Academy a series of 'country profiles' will be developed to accurately measure the state of hydrography in every coastal state.



IHO

International
Hydrographic
Organization



What does all this mean?

- Discussion in plenary
 - Regional CB 3 to 5 year goals and targets e.g., all Members to reach IHO CB Phase 0 by 2027
- Group discussions (PCA/PICs)
 - Review IHO CB Phases
 - Update matrix
 - Draft Country Plan – what's realistic & achievable (short & long term)
- Report back & next steps
 - For Members
 - For Region



IHO

International
Hydrographic
Organization



Instructions for activity

- Review and update matrix
- Review example CB Maturity model
- What are the CB requirements and needs for your country?
- Consider what your Country Plan includes
- Outcome
 - Country Plans to identify technical & leadership needs (HLP) and training opportunities (S-5A/B, S-8B)
 - CB Coordinator to aggregate to develop a Regional training programme



IHO

International
Hydrographic
Organization

