

South West Pacific Hydrographic Commission
Marine Spatial Data Infrastructures Working Group
(MSDIWG)

Why should we share data?



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What is a MSDI

Spatial Data Infrastructure (SDI)

- collection of technologies, standards, data and governance arrangements that facilitate the sharing, access and re-use of spatial data.

Marine SDI (MSDI)

- collection of technologies, standards, data and governance arrangements that facilitate the sharing, access and re-use of **marine** spatial data.

National SDI (NSDI)

- collection of technologies, standards, data and governance arrangements that facilitate the sharing, access and re-use of a spatial data at **a national level, across government and society**



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Not a single database

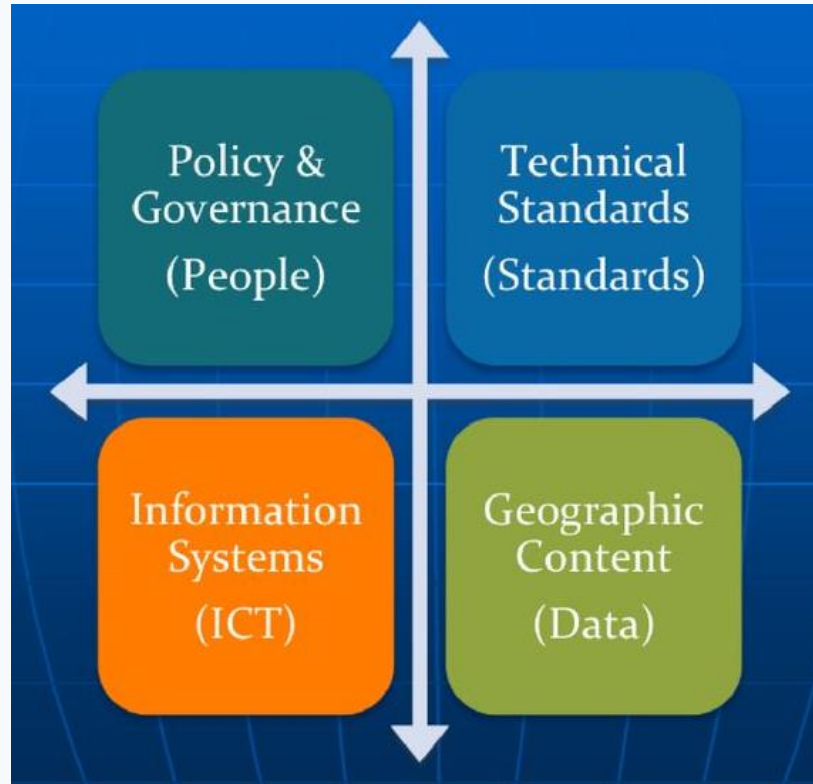


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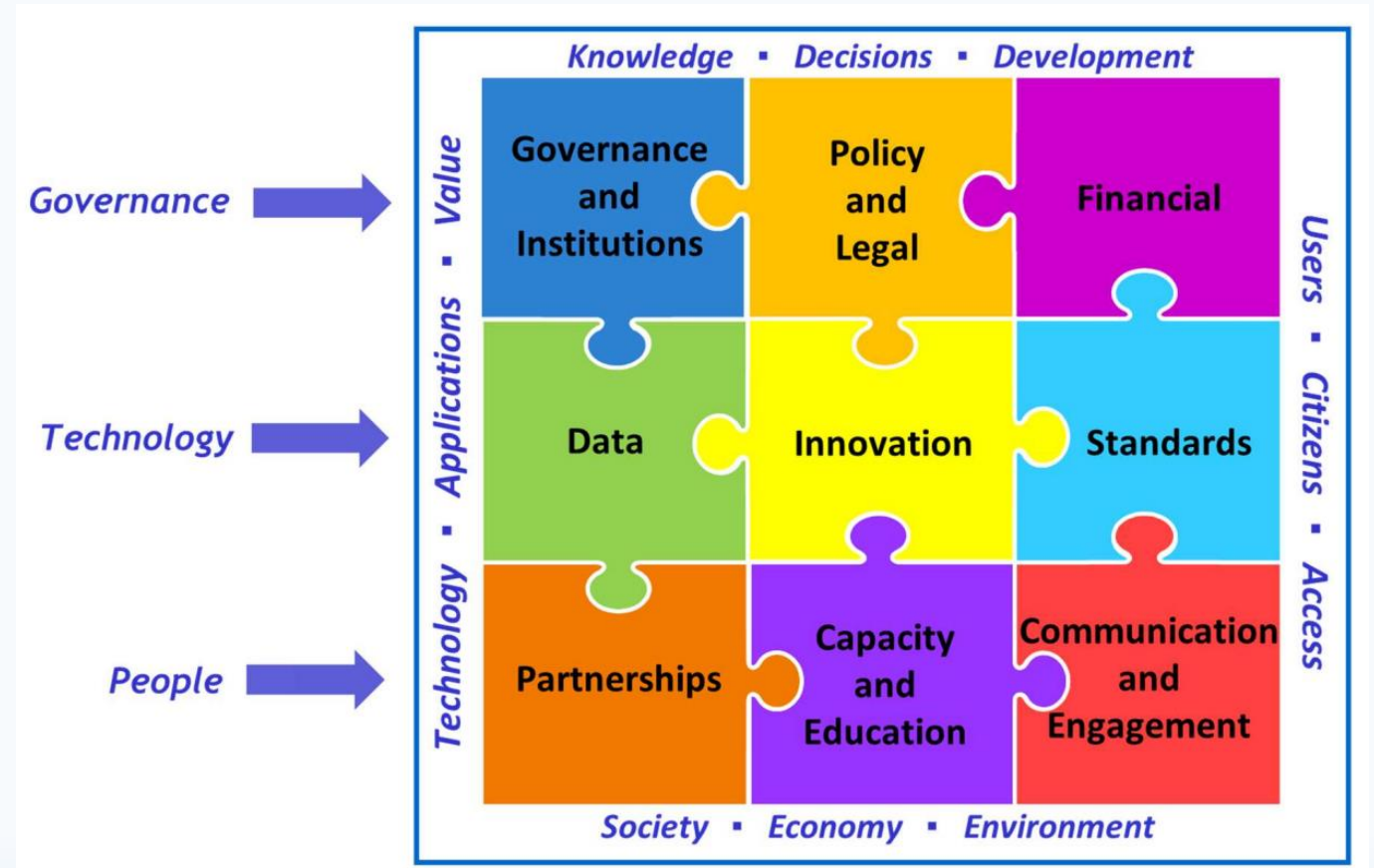
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Components of SDI / MSDI & NSDI



The Four Pillars of SDI
from C17 - SPATIAL DATA INFRASTRUCTURES "THE MARINE DIMENSION" Guidance for Hydrographic Offices



UNGGIM IGIF – 9 Strategic Pathways



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The value and importance of an MSDI

- Why we should share data?



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Overview of the MSDI WG



- ## South-West Pacific HC
- Basic Documents
 - Events & recordings
 - SWPHC Letters
 - ICCWG
 - **MSDIWG**
 - SWPHC20 (2023)
 - SWPHC19 (2022)
 - SWPHC18 (2021)
 - SWPHC17 (2020)

HOME > SOUTH-WEST PACIFIC HC > MSDIWG

MSDIWG

The Marine Spatial Data Infrastructures in the South West Pacific Region was created with the propose to promote the sustainable development and use of the oceans, seas and inland waters in line with the United Nations Sustainable Development Goals.

The SWPHC MSDIWG is a subsidiary body of IHO's regional South West Pacific Hydrographic Commission (SWPHC). Its work is subject to SWPHC approval.

SWPHC MSDIWG effort is focused on the SWPHC Workplan 2022-2023 and the nine Strategic Pathways from the United Nations Global Geospatial Information Management, Integrated Geospatial Information Framework. (UN-GGIM IGIF) - <https://ggim.un.org/IGIF/overview>

Members:

Chair: Helen Phillips, UK Hydrographic Office
Vice Chair: Pip Bricher, Australian Hydrographic Office



FIND US ONLINE

iho.int/en/MSDIWG-0



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Data Sharing Value Propositions

The Data Sharing Value Proposition is available to download from the SWPHC MSDI Working Group Web Page.

[Why should we share data.pdf \(iho.int\)](#)

Why should we share data?

Unlocking the value in hydrographic offices' data

Version 1.0 - February 2023



SWPHC supports the Sustainable Development Goals



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Obligations and Public Good

- Public access to trusted marine spatial data creates many opportunities to understand the marine environment
- It is crucial data for almost every maritime activity, supporting more intelligent and sustainable decision-making



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Social Benefits

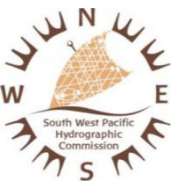
The SWPHC MSDI Working Group identified **seven crucial social benefits of sharing Marine Geospatial Data** and aligned these with the 17 UN Sustainable Development Goals that may stem from the public release of hydrographic offices' data:

- Food security
- Education and capacity development
- Safety
- Sustainable resources
- Environmental sustainability
- Public release sovereignty
- Heritage



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Hydrographic data and its uses beyond navigation:	Food security	Education and capacity development	Safety	Sustainable resources	Environmental sustainability	Public release sovereignty	Heritage
Bathymetry, seabed backscatter, and water column backscatter data can inform fishing industry management, including future planning.	✓						
Bathymetry, seafloor backscatter and water temperature data can help to identify potential aquaculture sites.	✓			✓	✓		
Seafloor backscatter data supports marine habitat mapping.	✓			✓	✓		
Sea level and water characteristics data, such as temperature and salinity, enable a better understanding of climate changes impact on marine environments.	✓				✓		
Bathymetric, geomorphic features and historical data help community groups understand their local marine environment.		✓		✓	✓	✓	✓
Access to and reuse of open hydrographic data supports exciting real-world projects that inspire students to become the maritime workforce of tomorrow.		✓					
Hydrographic data and derived products can help identify marine locations suitable for renewable energy production.			✓		✓		



Hydrographic data and its uses beyond navigation:	Food security	Education and capacity development	Safety	Sustainable resources	Environmental sustainability	Public release sovereignty	Heritage
Hydrographic data and derived products support commercial uses, including site selection, engineering, and start-up industries.				✓	✓		
Hydrographic data and derived products support tourism through transport and other planning in coastal areas.				✓			✓
Hydrographic data and derived products help communities, regulators, and companies make data-based decisions about deep-sea mining.				✓			
Scientific research develops an understanding of the marine environment across many disciplines which may not have direct contact with hydrographic offices. High-quality, trusted hydrographic data:							
› Increases confidence in policy decisions to better use and protect ocean resources.	✓	✓	✓		✓	✓	
› Provides ground-truthing and validation observations for scientific modelling.	✓	✓	✓		✓	✓	
› Improves ability to monitor impact of policy decisions.	✓	✓	✓		✓	✓	

What next?

- Use, Share and distribute document
- Consider potential value of sharing data
- Visit the IHO website for more information - [IHO.INT](https://iho.int)
- Full link to Data Value Proposition here:

<https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/SWPHC/MSDIWG/Why%20should%20we%20share%20data.pdf>



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What next for the Working Group?

- Action 19 - Adoption and implementation of UN GGIM-IGIF-H
- Explore Data Sovereignty
- Continue to support member states
- Please get in touch if you would like to join us



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