

# South West Pacific Hydrographic Commission

## Marine Spatial Data Infrastructures Working Group (MSDIWG) Annual report



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# Overview

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## 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.

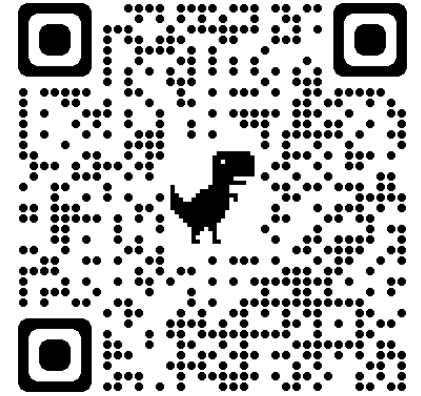
SWPHC MSDIWG effort is focused on the SWPHC Workplan 2022-2023 and the nine Strategic Pathways from the United Nations Global Geospatial Information Management, Integrated Geospatial Information Framework. (UN-GGIM IGIF) - <https://ggim.un.org/IGIF/overview>

### Members:

**Chair:** Helen Phillips, UK Hydrographic Office

**Vice Chair:** Pip Bricher, Australian Hydrographic Office

**Secretary:** Daniel Miners, UK Hydrographic Office



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# Operations through the year

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- Increased regional participation
- 6 Working Groups held
- Undertook a review and reflection on our operations
- Reviewed and updated our Terms of Reference
- Published all WG Minutes and Agendas on IHO SWPHC MSDI website
- Introduced Video recordings to increase accessibility



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# Activities through the Year

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- Focused on SWPHC Work Plan
- Progressing Action “Adoption and Implementation of UN GGIM IGIF-H”
- Shared Open Data Policies, and Indigenous Sovereign Data Policies
- Communicating and sharing the “Why should we share data?” publication



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# UN-GGIM IGIF-Hydro

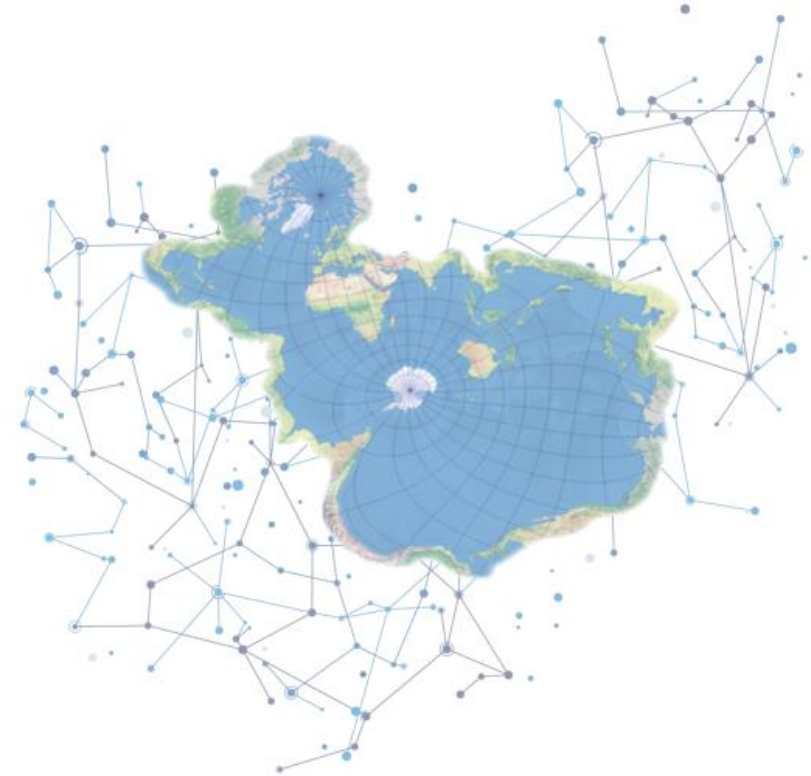


United Nations Integrated Geospatial Information Framework (UN-IGIF)



## Operational Framework for Integrated Marine Geospatial Information (UN-IGIF-Hydro)

### Part One: The Strategic Overview



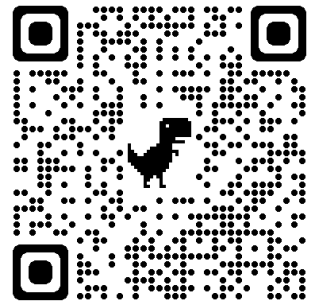
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# Adoption and implementation of UN GGIM-IGIF-H

- SWPHC MSDI WG - IGIF Strategic Pathway 1 Overview
- SWPHC MSDI WG - IGIF Strategic Pathway 2 Overview
- SWPHC MSDI WG - IGIF Strategic Pathway 3 Overview
- SWPHC MSDI WG - IGIF Strategic Pathway 4 Overview
- SWPHC MSDI WG - IGIF Strategic Pathway 5 Overview
- SWPHC MSDI WG - IGIF Strategic Pathway 6 Overview
- SWPHC MSDI WG - IGIF Strategic Pathway 7 Overview
- [Link to "SWPHC MSDI WG - IGIF Strategic Pathway 8 Overview"](#)
- [Link to "SWPHC MSDI WG - IGIF Strategic Pathway 9 Overview"](#)



RECORDINGS

## IGIF-H

### Overview of Strategic Pathway 9 Communication and Engagement

January 2024

Content is based on UN-IGIF  
PART 1  
Overarching strategic  
Framework  
UN-IGIF- HYDRO PART 2

An illustration of five stylized human figures standing around a table, each holding a piece of a colorful puzzle that forms a circle. The puzzle pieces are in shades of red, orange, yellow, green, and blue.

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0:18 / 14:26

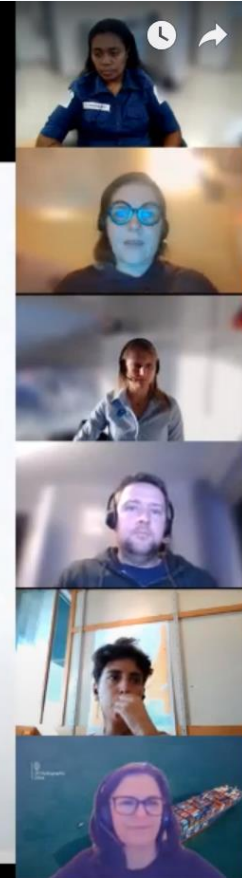
IC SWPHC

A video call interface showing a grid of participant thumbnails on the right side. The thumbnails include names like David Arnold, Neal Evans, Daniel Miners, Anna Meis..., PALU - FIJI, Graham C..., Caitlin Joh..., Helen Phil..., and David Cro... The interface also shows a 'Stop sharing' button and various control icons at the bottom.

# Strategic Pathway 2 – Policy and Legal

SWPHC MSDI WG - IGIF Strategic Pathway 2 Overview - Policy and Legal

- SOLAS and UNCLOS, MARPOL and others
- National legislation
  - Trade, commerce, exploration
  - Environmental (pollution prevention)
  - Fishing limits and controls
  - Scientific research
- Need geospatial maritime boundaries dataset to implement legislation
- IP Rights, data protection, privacy



0:51 / 12:50

Scroll for details



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# Strategic Pathway 5 – Innovation

## Strategic Pathway 5 Innovation - IGIF-Hydro

- Digital transformation is a key topic amongst hydro  
Progress in technology listed challenge in IHO Strategic Plan for 2021-2026

[https://iho.int/uploads/user/About%20IHO/Strategic%20Plan/IHOSP2021\\_2026\\_final.pdf](https://iho.int/uploads/user/About%20IHO/Strategic%20Plan/IHOSP2021_2026_final.pdf)

The **pace of technological innovations**, from sensors to digital services, **is increasing**, bolstering the need for **continuous adaptation of training and standards**, thus requiring strong **effort from HO in investment and training**. This is particularly significant for the automation of sensors carrying devices, and for new processing techniques from the field of artificial intelligence, which make it possible to handle 'big data' and augment the capacity of human teams.



6:37 / 13:58



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# Strategic Pathway 7 – Partnerships

**Outcomes**

- Increased Development Capacity through Sharing, Learning and Knowledge Transfer
- Enhanced Organization Knowledge, Expertise and Proficiencies and Expanded Capability through Complementary Resources
- Empowered Creativity and Innovation through Collaboration and Joint Efforts
- Agility and Flexibility in Transformation and Reform

**Tools**

- Identifying and classifying potential Partners
- Evaluation of Potential Partners
- Review and Evaluation
- Types of Partnerships
- Communication Plan
- Success Indicators

**Interrelated Actions**

- Geospatial Information Management Strategy (SP1)
- Sources of Funding (SP2)
- Business Case (SP3)
- Review and Assessment (SP2)
- Data Gap Analysis (SP4)
- Data Acquisition Program (SP4)
- Data Governance (SP4)
- Storage/Retrieval Systems (SP4)
- Data Release (SP4)
- Modernizing Data Assets (SP5)
- Modern Data Creation Method (SP5)
- Technology Needs Assessment (SP5)
- National Innovation System (SP5)
- Stakeholder Identification (SP9)
- Stakeholder Analysis (SP9)

**Actions**

- Understanding Partnerships**
  - Need for Partnering
  - Types of Partnership
- Evaluating Opportunities**
  - Partnership Opportunities
  - Selection Criteria
- Identifying Potential Partners**
  - Potential Partners
  - Preliminary Screening
  - Initial Engagement
- Selecting Partners**
  - Options and Operational Implications
  - Financial Analysis
- Formalizing Partnership**
  - Establishing Agreements
  - Communications Plan
  - Governance Structure
- Managing Partnership**
  - Reporting and Accountability
  - Review and Evaluation
  - Concluding a Partnership

**Guiding Principles**

- Mutual Respect, Trust and Understanding
- Shared Vision and Goals
- Clarity and Realism of Purpose and Scope
- Leadership, Commitment and Empowerment
- Learning and Development
- Transparency and Communication
- Performance Management and Accountability

**Elements**

- Cross-sector and Interdisciplinary Cooperation
- Private Sector and Academia Collaboration
- Community Participation
- International Collaboration

**Callout 1:** Different perspectives in search of solutions based on a new and shared understanding of complex situations.

**Callout 2:** Research/development partnerships to trigger research, innovation and activities

**Callout 3:** Partnerships with civil societies and communities for the benefit of the local community and its inhabitants.

**Callout 4:** Leveraging their respective integrated geospatial information management to accomplish transboundary, regional or global objectives.

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5:24 / 23:28

Participant Video Feeds: Stuart Caie, Daniel Miners, Neal Evans, David Crossman, Graham C..., Anna Meis..., Belen Jimenez Barco, Helen Phill...



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# Communications Plan - Why should we share data?

## Why should we share data?

Unlocking the value in hydrographic offices' data



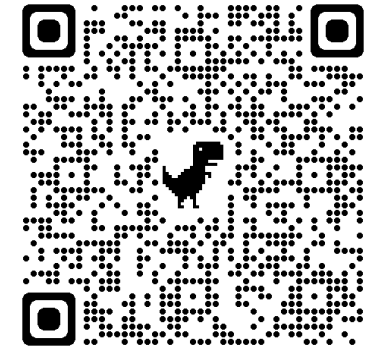
Version 1.0 - February 2023

SWPHC supports the Sustainable Development Goals

You and 44 others

11 reposts

### Reactions



Home About ▾ Data Portal ▾ Survey Coordination Tool Quality Assurance Tool ▾ GMRT-AusSeabed Resources ▾

- Seabed geomorphology scheme and tools
- News
- Newsletters
- Relevant Guidelines
- Record Templates
- Publications & Presentations
- Prior Meeting Outcomes
- System Capability Catalogue

## Why we should share data? Unlocking the value of hydrographic data and contributing to the SDGs

While the AusSeabed community is mostly successful in sharing data, there is still a way to go for true cross-organisation and public data sharing.

To learn about the benefits of data sharing, we recommend reading this recently released publication by members of the Southwest Pacific Hydrographic Commission (SWPHC) Marine Spatial Data Infrastructure Working Group. This short, must-read publication summarises the benefits of sharing data covering: public understanding and good, quality assurance, international obligations and the UN Sustainable Development Goals.

To read the publication [click here](#).



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# What next

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- Continue progress on our actions from SWPHC Work Plan
- Action 19 - Adoption and implementation of UN GGIM-IGIF-H
- Annual review of ToR



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# SWPHC21 is invited to

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1. Note the report
2. Encourage member nations to join and participate in future meetings of the SWPHC  
MSDIWG



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