SWPHC MSDI WG Initiatives

IHO MSDIWG15

March 2024





How we identify our activities?

- Take our direction from the SWPHC Workplan and aligned IHO priorities
- Focused on 2 main activities
 - 1. Creating the publication Why should we share data?
 - Adoption and implementation of IGIF-H short videos





Data Sharing Value Propositions

Collaborate with regional bodies and coastal states to develop and promote a "data value proposition" and share within the region.

Users

Who would be the Audience for the "Data Value Propsitions"

Problem Statement

What is the Problem the Data Value Propositions are trying to resolve?

The Goal

What is the Goal of the Data Value Propositions?

The Success Criteria

It would be great if the Data Value Propositions achieved this?

What would a Good value proposition Look Like

What would a Value proposition look like?

How Might We's?

How might we... approach this task? How might we... develop these propositions? How might we... promote and share?



achieved by making Marine Geospatial Information available. To help Customers to understand how Marine Geospatial

Information can support their business A value proposition can also help us determine priorities in terms

To develop people's understanding of what Value could be

of what gets released because it frames conversations about what

To link the value proposition with known and accepted strategic activities such as a nations trade and economy, Blue Oceans, Climate change / resilience, UN Decade of the Ocean etc

Environmental protection and decision making



End users have access to timely, accurate useable data for their area of

interest and the

avbility to utilise it.



Tangible, pomtable not just

Highlight

success

stories

Deadline and codrafting sessions

existing Data

Value

Proposition

(LINZ.

AusSeabed?

Find and

engage

end users

Share the SGIM WG-MG existing one: in IGIF H Part through 2 Value Teams

Proposition

Document use cases (nav, defence, non-nav uses)

Users: Govt agencies commercial, research

Brainstorm who is currently using our data

these columns You can add a sticky note or just type

Enter your input into





Data Sharing Value Propositions

Why should we share data?

Unlocking the value in hydrographic offices' data



Version 1.0 - February 2023

SWPHC supports the Sustainable Development Goals







Data Value Sharing Propositions



Introduction

Hydrographic offices hold and manage significant collections of marine spatial data, including environmental and historical assets. While hydrographic offices traditionally use their data to support safe navigation, their responsibilities may extend further, supporting all maritime activities, including economic development and environmental protection. Unlike published charts or tide tables, statistical or geographic information systems can directly analyse datasets, making them useful in many applications.

Trusted marine spatial data supports:

- > safe navigation and the safety of life at sea (SOLAS)
- > the enforcement of environmental protection rules and regulations
- increased capability of commercial operators (Blue Economy)
- > the effective management of marine resources and marine planning

Public understanding

Releasing marine spatial data raises public understanding of the importance of hydrography.

Routinely and proactively releasing data makes it discoverable to governments, aid agencies, commercial users, and the public. Sharing data reduces the burden on potential data users and increases the reuse of marine spatial data to support a wide range of activities. Publicly released data is better if it is made as FAIR (Findable, Accessible, Interoperable, Reusable) (Wikinson et al. 2016) as possible, using appropriate community standards for the data and its metadata.

Hydrographic offices often manage data with national security implications, limiting the data they can make public; however, we must balance these risks against the potential public benefits of sharing data to make potentially valuable datasets accessible where practicable. Where hydrographic offices cannot publish data fully, they can release partial datasets or bounding polygons and associated metadata to ensure the public can discover some data. Internally applying the FAIR principles makes it easier for hydrographic offices to incorporate public datasets into their products and lowers the administrative burden of releasing data publicly.











































The UN Sustainable Development Goals (SDGs) are a set of 17 goals adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet, and ensure that, by 2030, all people have peace and prosperity.

The UN has integrated 17 SDGs because the action in one area will affect outcomes in others; accordingly, development must balance social, economic and environmental sustainability. The UN also recognise that creativity, technology, expertise and financial resources are needed from every part of society to achieve the SDGs; therefore, businesses and organisations have a crucial role in delivering them.

The SWPHC MSDI Working Group identified seven crucial social benefits aligned with the 17 UN SDGs 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

The information on pages 6-10 demonstrates our work observing the SDGs by making the data holdings of hydrographic offices publicly available.















































		Education and capacity		Sustainable	Environmental	Public release	
Hydrographic data and its uses beyond navigation:	Food security	development	Safety	resources	sustainability	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.	✓	✓	✓		✓	✓	

Getting value from work completed

Why should we share data?

Unlocking the value in hydrographic offices' data





Data Portal V

Survey Coordination Tool

Quality Assurance Tool >

GMRT-AusSeabed

Join our Community

Resources v

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 com public data sharing.

To learn about the benefits Southwest Pacific Hydrogra publication summarises th obligations and the UN Su

To read the publication clic





SLYR tool to be tried for ESRI/OGIS compatibility (lyr mainly) once it's OS, seems promising! by North Road InaSafe for DRR not to forget, still handy and convenient for disaster risk reduction estimating impact off a natural crisis on population and infrastructures and gives valuable tips on how to anticipate it. Kart plugin seems to be very promising too on GIS data versionning Koordinates

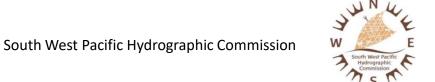
Quantity doesn't make quality. Suva and Kiribati are not so many but have a vibrant GIS community OpenStreetMap and OpenSource tools act as central lever. Very pleased to learn about accessibility community mapping too. Thanks for sharing To'oa Faleaunu Brown, Carrol Chan, Vasiti Soko, Lleakeia Tofinga! Also was great meeting Ewen Hill and looking forward to take a bigger part in the OSM promoting movment in the region.

Nice use case of coconut trees mapping with satellite imagery, which seems to work well! Ryan Perroy. Great to have an easy access to science approved emote sensing findings trough Qehnelo®

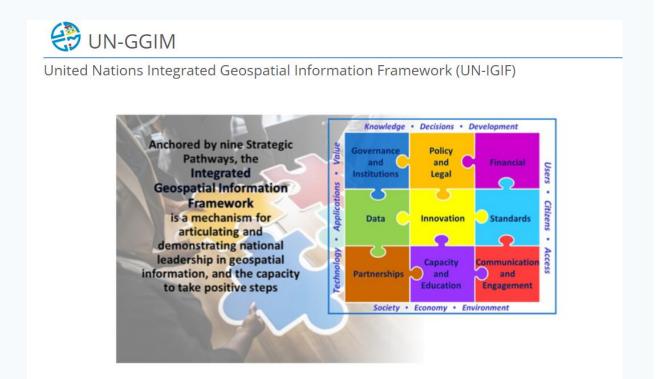
lappy to share the view that one of the major hallenge in setting up a SDI is about co-designi

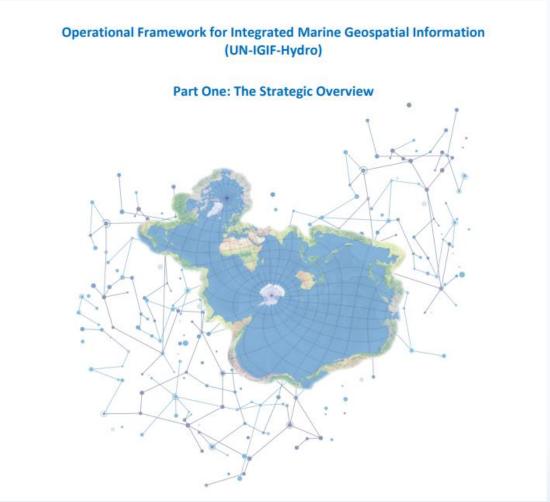






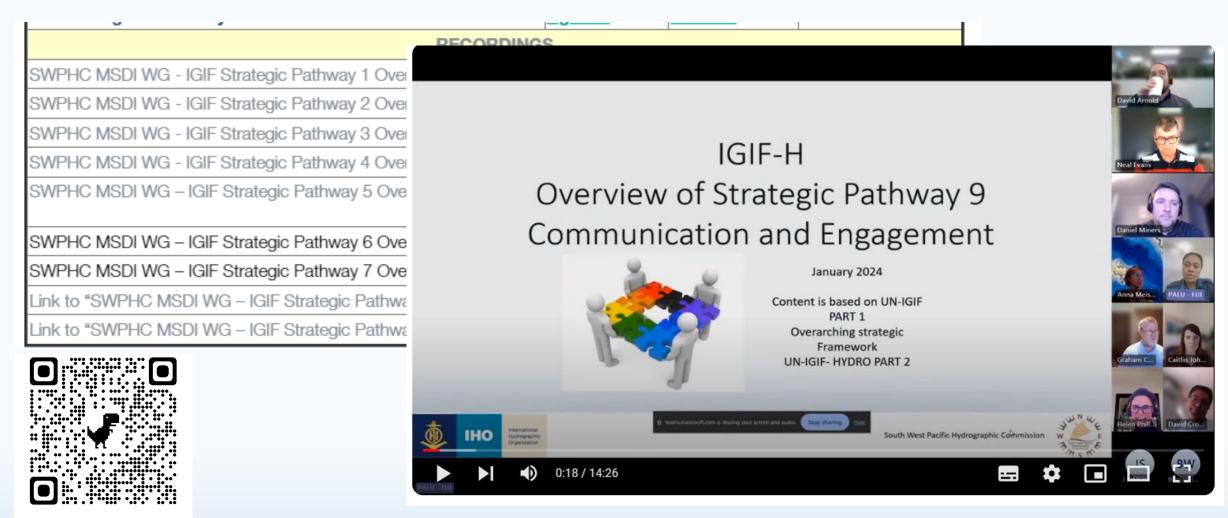
Adoption & implementation of IGIF-Hydro







Adoption and implementation of UN GGIM-IGIF-H

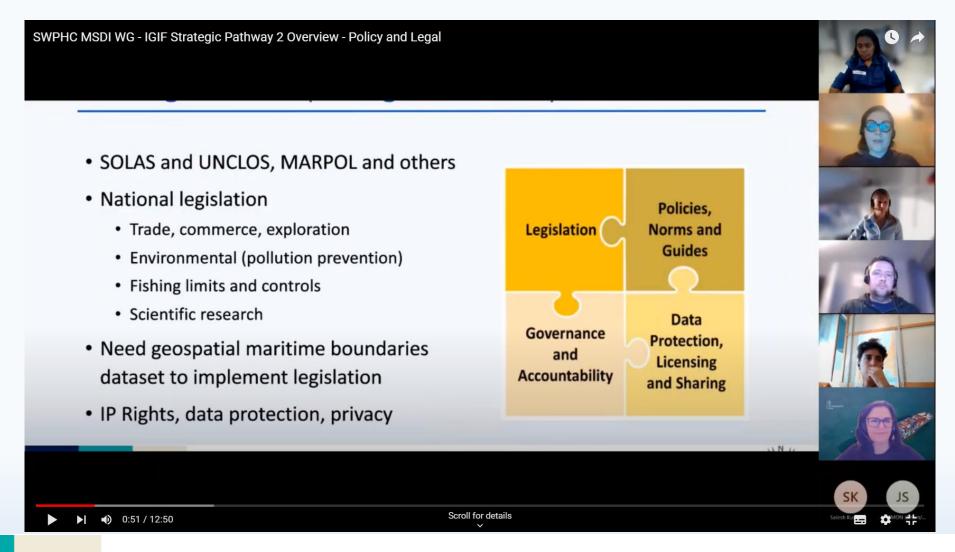








Strategic Pathway 2 – Policy and Legal

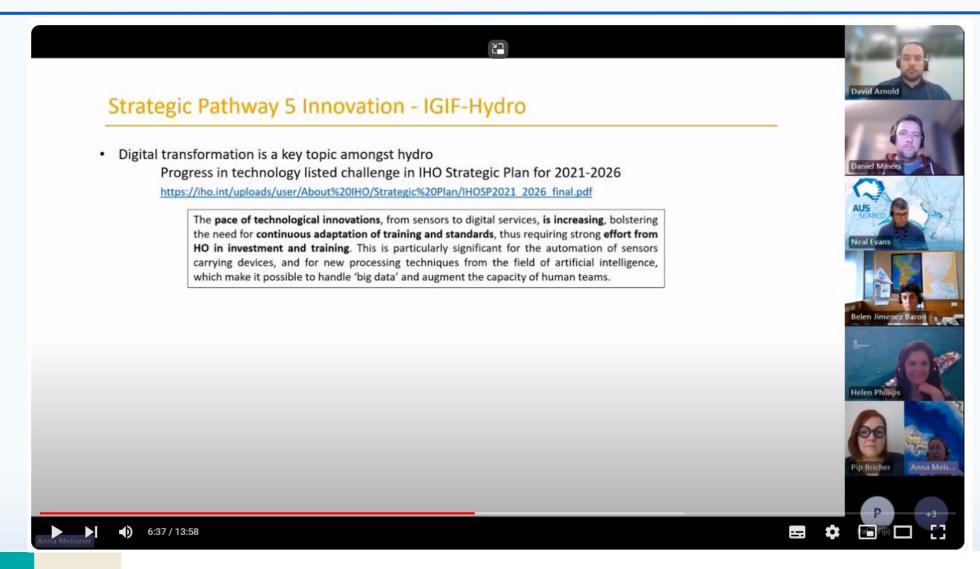








Strategic Pathway 5 – Innovation









Strategic Pathway 7 – Partnerships

