

# IHO MSDIWG

## Marine Spatial Data Infrastructures Working Group

Report to USCHC47

St. John's NL, Canada

30 - 31 May 2024



**IHO**

International  
Hydrographic  
Organization

USCHC47  
St. John's NL, Canada 30 – 31 May 2024



**UN-GGIM**  
UNITED NATIONS  
COMMITTEE OF EXPERTS ON  
GLOBAL GEOSPATIAL  
INFORMATION MANAGEMENT



**Open  
Geospatial  
Consortium.**



**IHO**

International  
Hydrographic  
Organization

USCHC47  
St. John's NL, Canada 30 – 31 May 2024

# International Seminar on United Nations Global Geospatial Information Management: *“effective and integrated marine geospatial information management”*

Session #1: Availability and accessibility of marine geospatial information for effective governance of seas and oceans



Session #2: Implementing the UN-IGIF-Hydro and advancing the conservation and sustainable use of marine resources

Session #3: Partnerships and innovations for integrated marine geospatial information management



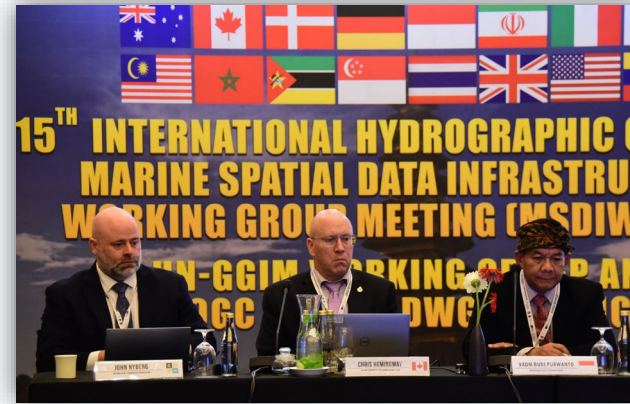
**IHO**

International  
Hydrographic  
Organization

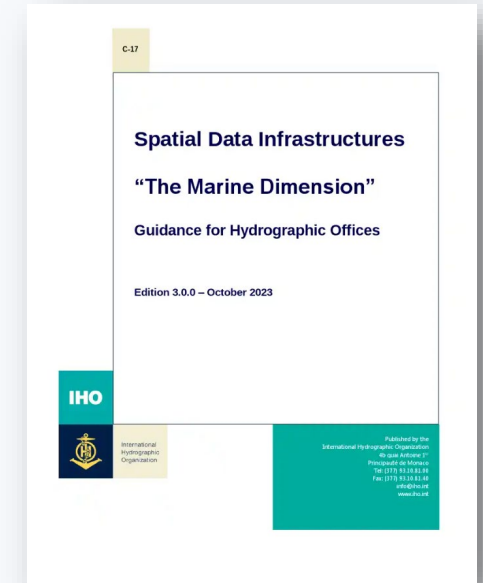


# IHO MSDIWG

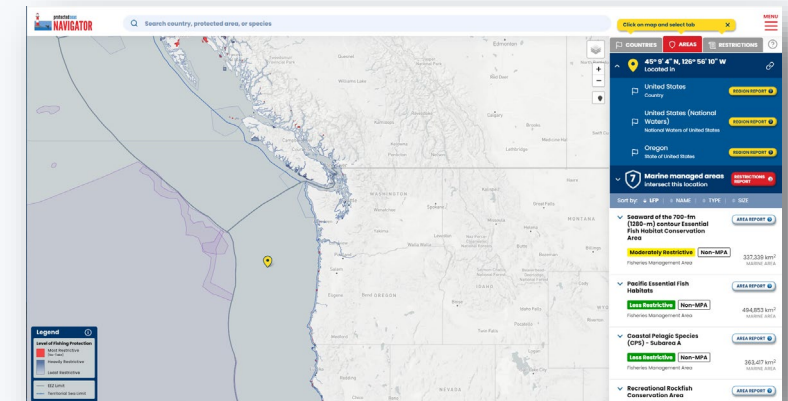
- National MSDI Reports
  - Land/sea interface, coastal zone implementation
- Adoption of IHO C-17 v.3 (Oct. 2023)
  - Future updates/ maintenance via Github
- ProtectedSeas Marine Protected Areas/ S-122
- Reimagining the MSDIWG Work Plan



First day of meetings



C-17 version 3.0



ProtectedSeas Navigator



IHO

International  
Hydrographic  
Organization

USCHC47  
St. John's NL, Canada 30 – 31 May 2024

# IHO MSDIWG – Regional MSDIWG Initiatives

- [List](#) of MSDI Ambassadors/ RHC WG Chairs
- Active vs. Non-Active [Survey](#)
- Regional MSDIWG [Reports](#)
- [SWPHC MSDIWG](#) Successes
  - Data Sharing Value Propositions: Why should we share data?
  - IGIF Videos
- Interactive Session
  - Outcome: [Key Themes for Successful Collaboration in Regional MSDIWGs](#) document



*Break-out groups*



*Discussing outcomes*



**IHO**

International  
Hydrographic  
Organization

# UN-GGIM WG-MGI – 6<sup>th</sup> Expert Meeting

- Implementation of the UN-IGIF-Hydro
  - HOW do we get the document in motion
- Terrestrial/ marine/ cadastral domain integration
  - Expert Group on Land Administration presentation
  - Existing use cases
- 14<sup>th</sup> Session of the Committee of Experts
  - August 2024, NYC
  - Side event on terrestrial, marine, and cadastral domain integration



*UN-IGIF-Hydro*



*IHO and UN-GGIM joint session*

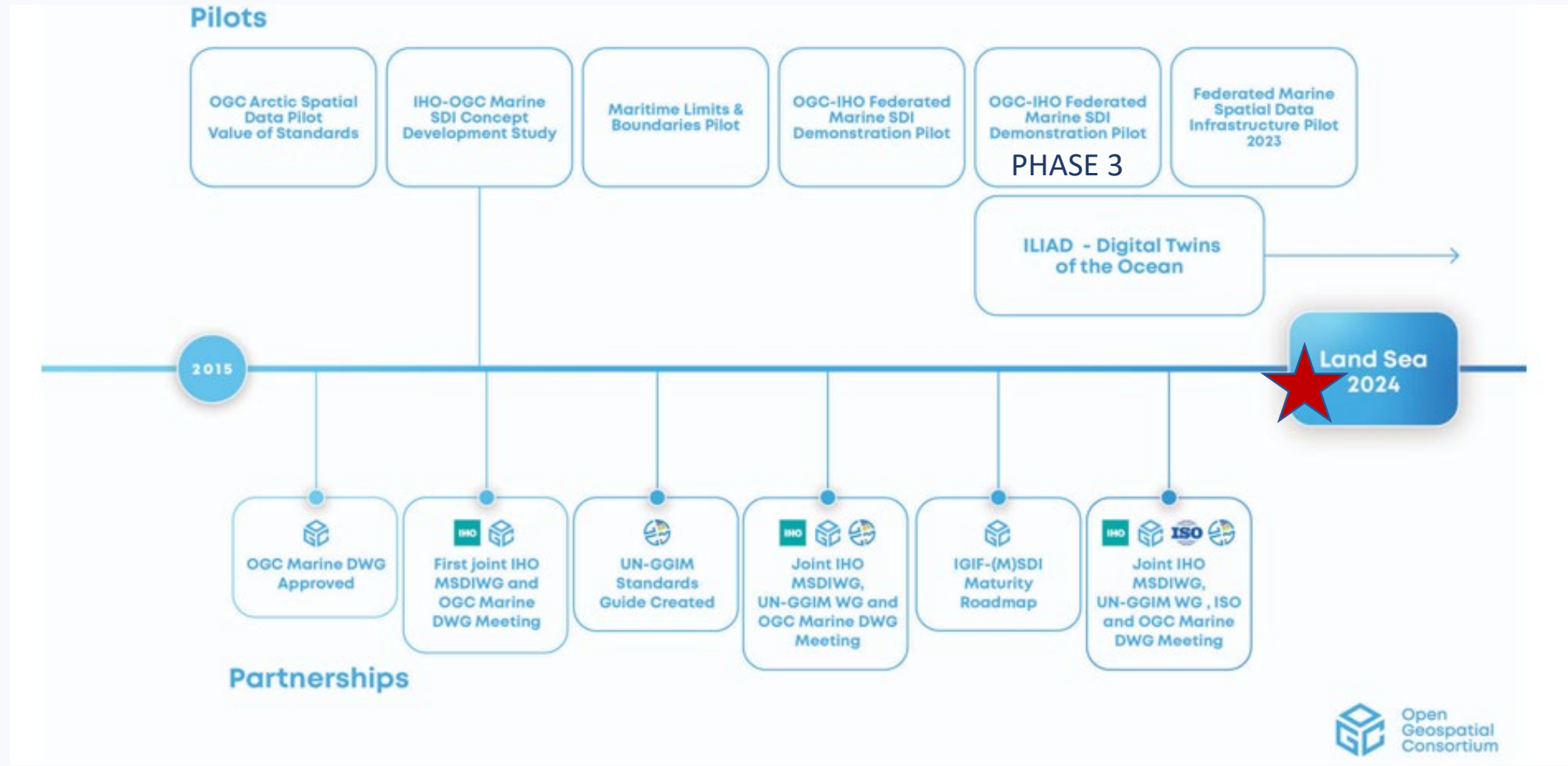


**IHO**

International  
Hydrographic  
Organization

USCHC47  
St. John's NL, Canada 30 – 31 May 2024

# OGC Federated MSDI Pilot



IHO

International  
Hydrographic  
Organization

USCHC47  
St. John's NL, Canada 30 – 31 May 2024



# OGC Federated MSDI Pilot



*Phase Three*



*Phase Four*

## Digital Twin of Land and Sea Interfaces: **Singapore**

- Organizational challenges
- Digital Twin of coastline

## Digital Arctic Connecting Land and Sea: **Canadian Arctic**

- Rate of change affecting ecosystems
- Discover and present data from many sources for many uses

## Integrating Land and Sea for Various Use Cases: **Caribbean**

- Extreme weather events
- Local coastal and marine policies



**IHO**

International  
Hydrographic  
Organization

USCHC47  
St. John's NL, Canada 30 – 31 May 2024

**FMSDI 2023**  
**Engineering Report**



# OGC Federated MSDI Pilot



*[Phase Five](#)*



**IHO**

International  
Hydrographic  
Organization

USCHC47

St. John's NL, Canada 30 – 31 May 2024

# USCHC is invited to:

- Take note of this summary
- Designate a RHC MSDI Ambassador
- Contribute expertise to MSDIWG actions and related initiatives



*Recently elected MSDIWG leadership*



**IHO**

International  
Hydrographic  
Organization

USCHC47  
St. John's NL, Canada 30 – 31 May 2024

# Thank you



**IHO**

International  
Hydrographic  
Organization

USCHC47  
St. John's NL, Canada 30 – 31 May 2024