

MSDIWG

Marine Spatial Data Infrastructures Working Group

Report to IRCC15

Tokyo, Japan 12 – 14 June 2023

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IHO Meetings and new leadership

- International Hydrographic Organization
- MSDIWG14: 30 January 3 February 2023 Genoa, Italy
 - In conjunction with UN-GGIM Working Group on Marine Geospatial Information and OGC Marine Domain Working Group



- Next Meeting: March 2024 Indonesia
- Leadership changes



IHO Work Program

International Hydrographic Organization

MSDI Terms of Reference update

 Clause 3.16 'Maintain IHO publication C-17 – Spatial Data Infrastructures "The Marine Dimension", Guidance for Hydrographic Offices'

MSDI Use-Cases

- Investigate how to support connection between hydrography and oceanography
 - Work item: Identify marine science and/or oceanographic data themes that could require integration with hydrographic data.



Progress on IRCC Action Items

International Hydrographic Organization

• IHO Strategic Plan 2021 – 2026

- Target 2.1 (Build a portal to support and promote regional and international cooperation in marine spatial data infrastructures (MSDI)) of Goal 2
- Target 2.3 (Apply UN shared guiding principles for geospatial information management in order to ensure interoperability and extended use of hydrographic data in combination with other marine-related data) of Goal 2

S-100 from MSDI perspective

- Georegulation: S-121, S-122
- Water, depth, level, and movement: S-102, S-104, S-111
- Etc: S-101, S-123, S-128
- S-102 for non-navigation



Progress on IRCC Action Items

International Hydrographic Organization



Digital Twins from MSDI perspective

- Data producers, providers (enablers), and users (beneficiaries)
- "Digital Twin-ready"
- DITTO (https://ditto-oceandecade.org)

FAIR Principles

 FAIR+ (Findable, Accessible, Interoperable, Re-usable + Traceability, Licensure, Connectedness)



IHO Progress on IRCC Action Items

International Hydrographic Organization

Applications of ISO 9001 Principles to MSDI

QUALITY MANAGEMENT PRINCIPLES (QMPs)	MSDI PERSPECTIVE
QMP 1 – Customer focus	All possible users are MSDI customers
QMP 2 – Leadership	MSDI needs a strategic vision , aligning policies, processes and data
QMP 3 – Engagement of people	Focusing people enables a people centric and not only data centric MSDI
QMP 4 – Process approach	MSDI data management workflow is composed of several individual trusted processes
QMP 5 – Improvement	MSDI is a long-term change of view and not an objective to achieve or a web portal
QMP 6 - Evidence-based decision making	MSDI links data and information to policy and governance
QMP 7 – Relationship management	Networking enables MSDI shared knowledge

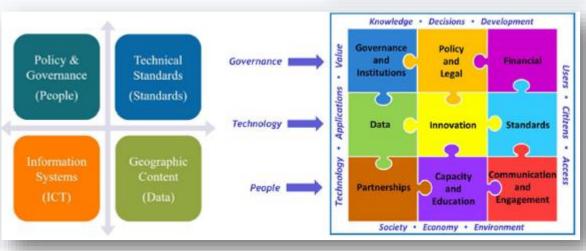


IHO IHO C-17 version 3.0

International Hydrographic Organization

- Topics to address:
 - IHO Strategic Plan 2021- 2026
 - IHO-OGC MSDI Concept Development Study
 - Ongoing Federated MSDI pilot projects
 - S-100
 - FAIR Principles
 - UN-GGIM IGIF-Hydro
- MSDI cookbook for HOs
- IGIF-aligned implementation







IHO Problems Encountered

International Hydrographic Organization

- IRCC9/18 RHC MSDI Ambassadors
 - Promote MSDI and help MS prepare national reports with respect to MSDI status
- Three-steps approach
 - Gather number of active RHC MSDI WGs and their ambassadors
 - Encourage all to update list of SDIs and MSDIs
 - Create procedure for cooperation to enable ambassadors



Actions Requested of IRCC15

International Hydrographic Organization

- Endorse MSDIWG Terms of Reference version 2.0
- Endorse IHO C-17 version 3.0
- Endorse application of ISO 9001 7 Quality Management Principles from MSDI Perspective and for inclusion into IHO C-17 version 3.0
- Appoint RHC MSDI ambassadors and inform the MSDIWG with contact details
- Note the report and give guidance on way forward



International Hydrographic Organization

Thank you!