

MSDIWG WORK PLAN 2021–2024

MSDI Tasks

A	Communication and dissemination								
B	Operational - Data sharing and management								
C	Policies and governances – RHC. (Ensure that MSDI is a standing agenda item for RHCs' meetings (IHO Res 2/1997, as amended, refers))								
D	Standards (OGC and HSSC)								
E	Innovation – Future perspectives (2021 - 2030)								
F	Training and education								
G	Maintain and extend the publication IHO MSDI C-17 (IHO Task 3.9.2.1 refers)								
H	Conduct annual meetings of MSDIWG, arranged back to back with 1-day MSDI Open Forum (IHO Task 3.9.1 refers)								
No	Work item	Priority H-high M-med L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Responsible / contact person(s)	Related Pubs / Standard	Remarks
A.1	Implement MSDI and MSP Maturity Assessments (national and regional) to enable consistent reporting from MS through RHC to IRCC.	H	1. Evaluate available template's 2. Decide on template. 3. Promote template to use. 4. Send out template to MS for national Maturity Assessments	2021	2023	P	USA (NGA) Chair		
A.2	IHO Strategy Goal 2.1. Build a portal to support and promote regional and international cooperation in marine spatial data infrastructures (MSDI).	H	1. Investigate the different possibilities 2. Gather information and evaluate IHO MS user needs 3. Prepare a proposal for IRCC approval 4. Build a portal	2021	2024	P	IHO Sec. Chair Vice Chair NGA Norway		
A.3	Develop MS or RHC relevant Case Studies. Ref: C2 (Investigate if it is possible to engage the RHC MSDI ambassadors)	M	1. Baltic Region 2. Brazil 3. East Asia Region	2021	2023	P	Denmark Brazil Korea		
B.1	Create an implementation guide "roadmap" template for MSDI, at national and/or	H	1. Gather information 2. Compile information	2021	2023	O	USA, (NGA) IIC ESRI		

	regional level. (IGIF Implementation Guide, Strategic Pathway 1 to be considered.)		3. Publish template for implementation						
B.2	Identify core data for input to MSDI to support multiple applications [Ref: B1] Ref. to IGIF and IGIF W. and OGC Concept development study.	M	1. Marine Cadastre 2. Emergency Response 3. Coastal Zone Management	Mar 17	2023	O	Chair/V. Chair		
C.1	Alignment with UN-GGIM IGIF and IHO MSDI C-17	H	1. Compare the two foundation concepts 2. Define the HO perspective 3. Propose changes to C-17	2021	2022	P	Chair/V. Chair NGA Norway		
C.2	Cooperation with RHC MSDIWG	H	1. Identify and list RHC MSDIWG MS, Chairs RHC MSDIWG and MSDI RHC Ambassadors 2. Create procedures for cooperation	2021	2024	P	Chair IHO Sec.		
C.3	Develop a governance model for MSDI	M	1. Deliver best practice governance models to BoK (Ref: B1) 2. IGIF Implementation Guide, Strategic Pathway 1 to be considered.	2017	2023	O	Denmark USA (NGA)		
C.4	Data Sharing and Publishing Licence	M	1. Provide updated licensing models and templates as 'best practice' to MSDI BoK	2018	2024	O	NZ, USA, OceanWise, Indonesia, Malaysia ESRI		
D.1	Identify relevant standards to support MSDI implementation and operation. Ref: B1.	H	1. Provide annual reports to IRCC and HSSC	2021	2024	O	OGC Marine DWG		
D.2	Assess the suitability and shortcomings of standards in supporting data interoperability.	M	1. Identify standards relevant to bathymetry (Ref: D1) 2. Marine Cadastre 3. Oceanography 4. Opportunities with HSSC/S-100 during decade of implementation. (To identify	2018	2024	O	OGC Marine DWG Portugal Chair		

			the best opportunities to use S-100 in MSDI as well as interoperability with OGC API Standards.)						
D.3	Cooperate with the OGC MSDI Pilot	M	<ol style="list-style-type: none"> 1. Participate in and Promote the OGC Pilot Project 2. Assess output from the OGC Pilot 3. Evaluate relevance and implications from a HO perspective 4. Take (appropriate actions as necessary 	2021	2023	O	Chair		
E.1	Identify and report on the future trends affecting MSDI e.g. autonomous platforms, standards, big data, cloud, internet of things and artificial intelligence.	M	<ol style="list-style-type: none"> 1. Information gathering (Horizon Scanning) 2. Publish White Paper (inc: PPP) 	2018	2024	O	ESRI OceanWise USA Portugal Caris		
E.2	Establish an IHO MSDI Vision for 2030.	L	<ol style="list-style-type: none"> 1. Prepare draft Position Paper (“think piece”) to include technologies, methodologies, sustainability 2. Align with other Visions 3. Align with IHO Strategic Roadmap for S-100 	2018	2023	O	Chair IHO Sec. OceanWise UK US (NGA)		
E.3	Identify challenges, options and solutions in relation to data security and integrity from a HO MSDI perspective	M	<ol style="list-style-type: none"> 1. Information gathering (Horizon Scanning) 2. Reporting to IHO MSDI WG 3. Evaluate input to C-17 and IHO bodies/WG 4. Investigate possibilities with Blockchain based system for assuring data integrity. 5. Take appropriate actions as necessary 	2021	2023	P	Chair V. Chair IIC		
E.4	Corporation with IHO-Singapore Innovation and Technology Laboratory	M	<ol style="list-style-type: none"> 1. Identify the different IHO MS user needs with relation to 	2021	2024	O	V. Chair IHO Sec.		

			<p>future trends affecting MSDI (E.1)</p> <ol style="list-style-type: none"> Discuss how IHO MS can participate in the work of IHO innovation lab Report back to IHO MS 						
F.1	Develop and maintain training syllabi	M	<ol style="list-style-type: none"> Review and update in line with relevant developments, methods and content 	2018	2022	O	Denmark IIC		
F.2	Support development and delivery of e-learning platforms	L	<ol style="list-style-type: none"> Coordinate activities with East Asia (KHOA) Coordinate with E-learning PT. Compile list of existing e-learning modules relevant to MSDI 	2018	2023	O	Esri OceanWise KHOA Chair IHO Sec.		
F.3	Develop a MSDI communications plan for MSDI BoK	M	<ol style="list-style-type: none"> Identify the need, audience and focus Report findings Deliver Plan 	2018	2022	P	IHO Sec. NZ(LINZ) Netherlands US (NOAA)		
G.1	Maintain IHO publication C-17 to reflect developments in ICT, Content, Standards and Governance of MSDI. V2.0 now approved by IRCC	H	<ol style="list-style-type: none"> Manage content Create a Wiki Request IRCC remove document from IHO Res: 2/2007 On-line dynamic content 	2017	2022	O	OceanWise ESRI USA/NGA Denmark Germany Portugal		
G.2	Update C-17 in accordance with BX (UN-GGIM/IGIF)	H	<ol style="list-style-type: none"> Create a C-17 drafting team Identify the need for changes Evaluate the structure of C-17 with IHO MSDI WG members. To send out a questionnaire to IHO MS and RHC's. Update C-17. 	2021	2023	P	Chair NGA		
H.1	Conduct 2019 -21 meetings of MSDI WG, arranged back to back with MSDI Open Forum, OGC Marine DWG and UN-GGIM MGI WG meeting.	H	<ol style="list-style-type: none"> Date and venue defined Logistics in place Open Forum program defined 	2017	2024	O	MSDIWG Management Group (Chair/Vice		

	2021 – Singapore 2022 -? 2023 -? 2024 -?		4. Develop content for DWG workshops				Chair, IHO Sec.)		
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