

**IHO Marine Spatial Data Infrastructures Working Group (MSDIWG)
WORK PLAN 2017–2020**

V1.0

Adopted by MSDIWG-8 and MSDIWG Members (Pending approval by IRCC9)

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 - 2023)								
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 Maturity Assessment to enable consistent reporting from MS through RHC to IRCC.	H	1. Design template 2. Assessment template in place 3. Assessment template in use	Jun 17	Jan 18	Planned	Denmark, OceanWise		
A.2	Identify definitions, appropriate and relevant standards and components of (M)SDI. Ref: D1 and D2	H	1. Provide a consolidated list of definitions, components, standards 2. Maturity continuum in place for outreach purposes	Jun 17	Jan 18	Planned	GSDI Malaysia		
A.3	Develop and provide guidelines on MSDI implementation.	M	1. Guidelines in place based on outputs from tasks B1-3: C2	2017	2018	Planned	IIC OceanWise Canada		
A.4	Develop MS or RHC relevant Case Studies. Ref: C2	M	1. Arctic Region 2. Baltic Region 3. Brazil 4. East Asia Region	2017 2017 2018 Mar 17	2018 2019 2020 Jan 18	Planned	USA Denmark Brazil Korea		

A.5	Create video recording of MSDI for HO and wider marine community	M	<ol style="list-style-type: none"> 1. Develop content: <ol style="list-style-type: none"> a. Messages from C-17 b. Key points of MSDI c. Role of MSDIWG 2. Edit 3. Record 4. Edit 5. Approve 	Mar 17	Jan 18	Planned	Korea		Korean and English versions
B.1	Create an implementation “roadmap” template for MSDI (at national and/or regional level)	H	<ol style="list-style-type: none"> 1. Gather information 2. Compile information 3. Publish template for implementation 	Mar 17	Dec 17	Planned	IIC Esri USA		
B.2	Identify core data for input to MSDI to support multiple applications [Ref: B1]	M	<ol style="list-style-type: none"> 1. Marine Cadastre 2. Emergency Response 3. Coastal Zone Management 	Mar 17	2018	Planned	IIC Germany Canada OceanWise		
B.3	Identify wider user requirements for bathymetry data	H	<ol style="list-style-type: none"> 1. Develop primary use case for Arctic Bathymetry SDI 2. Update concept development study (\$) 3. Propose test-bed 4. Build test-bed (\$\$\$) 	2017	2018	Planned	IIC Esri OGC Caris Canada Portugal		\$ = funding required
C.1	Draft data policy statements for MSDI (Ref:A3)	M	<ol style="list-style-type: none"> 1. Define relevant statements 2. Compile compendium of Data Policy statements 	2017	2018	Planned	USA GSDI OceanWise		
C.2	Develop a conceptual architecture for MSDI	M	<ol style="list-style-type: none"> 1. Develop architecture(s) 2. Compile compendium of MSDI architectures 	2018	2018	Planned	IIC Norway Malaysia		
C.3	Develop a governance model for MSDI	M	<ol style="list-style-type: none"> 1. Regional bathymetry governance model in place (Ref: B3) 	2018	2018	Planned	Denmark USA		
D.1	Identify relevant standards to support MSDI implementation and operation.	H	<ol style="list-style-type: none"> 1. Provide annual reports to IRCC and HSSC 2. DGGS (Ref: B3) 	Jun 17	Jan 20	Ongoing	OGC Marine DWG		

D.2	Assess the suitability and shortcomings of standards in supporting data interoperability.	M	<ol style="list-style-type: none"> 1. Identify standards relevant to bathymetry (Ref: B3) 2. Marine Cadastre 3. Oceanography 	2018	2019	Planned	OGC Marine DWG (inc: Portugal)		
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	2019	Planned	Esri OceanWise USA Portugal		
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 	2019	2019	Planned	OceanWise UK		
F.1	Develop and maintain training syllabi	M	<ol style="list-style-type: none"> 1. Review and update in line with relevant developments, methods and content 	2018	2020	Ongoing	Denmark OceanWise		
F.2	Support development and delivery of e-learning platforms	L	<ol style="list-style-type: none"> 1. Coordinate activities with East Asia TDRC 2. Compile list of existing e-learning modules relevant to MSDI 	2018	2020	Ongoing	Esri OceanWise GSDI		
F.3	Develop a MSDI communications plan	M	<ol style="list-style-type: none"> 1. Identify the need, audience and focus 2. Report findings 3. Deliver Plan 	2018	2020	Planned	IHO Sec. GSDI		
G.1	Maintain IHO publication C-17 to reflect developments in ICT, Content, Standards and Governance of MSDI	H	<ol style="list-style-type: none"> 1. Manage content 2. Create a Wiki 3. Request IRCC remove document from IHO Res: 2/2007 	2017	2020	Ongoing	OceanWise USA Denmark Germany Portugal		V2.0 publish - June 2017
H.1	Conduct 2018 -20 meetings of MSDIWG, arranged back to back with 1-day MSDI Open Forum and OGC Marine DWG	H	<ol style="list-style-type: none"> 1. Date and venue defined 2. Logistics in place 3. Open Forum programme defined 4. Develop content for DWG workshops 	2017	2020	Ongoing	MSDIWG Managem ent Group (Chair/Vice Chair, Sec, IHO Sec)		2018 – Brazil 2019- Korea 2020- tbc