IHO Marine Spatial Data Infrastructures Working Group (MSDIWG)
WORK PLAN 2018–2020 (Updated: 26/10/2019)

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 Maturity Assessments (national and regional) to enable consistent reporting from MS through RHC to IRCC.	H	1. Design template(s) 2. Assessment templates in place 3. Assessment templates in use	Jun 17	Jan 19	O	Denmark, OceanWise		Items 2 & 3 OceanWise send templates to WG MS for comment
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	Jan 17	Jan 18	C	Malaysia		
A.3	Develop and provide guidelines on MSDI implementation.	M	1. Guidelines in place based on outputs from tasks B1-3: C2	2017	2019	O	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 2018	2019 2019 2020 2021	P	USA Denmark Brazil Korea		Awaiting template

A.5	Create video recording of MSDI for HO and wider marine community .	M	1. Develop content:
			   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 19	O	Korea		Video out for WG MS for review. Spanish version requested

B.1	Create an implementation "roadmap" template for MSDI (at national and/or regional level)	H	1. Gather information 2. Compile information 3. Publish template for implementation	Mar 17	Dec 18	O	IIC Esri USA		USA NGA comment req'd
B.2	Identify core data for input to MSDI to support multiple applications [Ref: B1]	M	1. Marine Cadastre 2. Emergency Response 3. Coastal Zone Management	Mar 17	2019	O	IIC Germany Canada OceanWise		OceanWise to circulate
B.3	Identify wider user requirements for bathymetry data	H	1. Develop primary use case for Arctic Bathymetry SDI 2. Update concept development study ($) 3. Propose test-bed 4. Build test-bed ($)	2017	2018	O	OGC USA (NGA)		
C.1	Draft data policy statements for MSDI (Ref:A3)	M	1. Define relevant statements 2. Compile compendium of Data Policy statements	2017	2019	P	USA OceanWise		
C.2	Develop a conceptual architecture for MSDI	M	1. Develop architecture(s) 2. Compile compendium of MSDI architectures	2017	2018	C	Malaysia		
C.3	Develop a governance model for MSDI	M	1. Deliver best practice governance models to BoK (Ref: B3)	2017	2019	O	Denmark USA (NGA)		
C.4	Data Sharing and Publishing Licence	M	1. Provide licensing models and templates as 'best practice' to MSDI BoK	2018	2019	O	NZ, USA, OceanWise, Indonesia, Malaysia Esri		

D.1	Identify relevant standards to support MSDI implementation and operation.	H	2. Provide annual reports to IRCC and HSSC 3. DGGS (Ref: B3)	Jun 17	Jan 20	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: B3) 2. Marine Cadastre 3. Oceanography	2018	2019	O	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	1. Information gathering (Horizon Scanning) 2. Publish White Paper (inc: PPP)	2018	2019	O	Esri OceanWise USA Portugal Caris		
E.2	Establish an IHO MSDI Vision for 2030.	L	1. Prepare draft Position Paper ("think piece") to include technologies, methodologies, sustainability 2. Align with other Visions	2018	2019	O	OceanWise UK US (NGA)		
F.1	Develop and maintain training syllabi	M	1. Review and update in line with relevant developments, methods and content	2018	2020	O	Denmark OceanWise		
F.2	Support development and delivery of e-learning platforms	L	1. Coordinate activities with East Asia (KHOA) 2. Compile list of existing e-learning modules relevant to MSDI	2018	2020	O	Esri OceanWise KHOA		
F.3	Develop a MSDI communications plan for MSDI BoK	M	1. Identify the need, audience and focus 2. Report findings 3. Deliver Plan	2018	2020	P	IHO NZ(LINZ) Netherlands US (NOAA)		
G.1	Maintain IHO publication C-17 to reflect developments in ICT, Content, Standards and Governance of MSDI	H	1. Manage on-line dynamic content 2. Create a Wiki 3. Request IRCC remove document from IHO Res: 2/2007	2017	2020	O	OceanWise Esri USA Denmark Germany Portugal		V2.0 now approved by IRCC

H.1	Conduct 2019 -21 meetings of MSDIWG, arranged back to back with 1-day MSDI Open Forum and OGC Marine DWG	H	1. Date and venue defined 2. Logistics in place 3. Open Forum programme defined 4. Develop content for DWG workshops	2017	2021	O	MSDIWG Management Group (Chair/Vice Chair, Sec, IHB)		2019- ROK: 2020- Germany; 2021 - Singapore