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| * MSDIWG11-04.4
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 **IHO Marine Spatial Data Infrastructures Working Group (MSDIWG)**

**WORK PLAN 2018–2020 (Updated: 26/10/2019)**

**MSDI Tasks**

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| 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 | IICOceanWiseCanada |  |  |
| **A.4** | Develop MS or RHC relevant Case Studies. Ref: C2  | M | 1. Arctic Region
2. Baltic Region
3. Brazil
4. East Asia Region
 | 2017201720182018 | 2019201920202021 | P | USADenmarkBrazilKorea |  | Awaiting template |
| **A.5** | Create video recording of MSDI for HO and wider marine community . | M | 1. Develop content:
	1. Messages from C-17
	2. Key points of MSDI
	3. 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 | IICEsriUSA |  | 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 | IICGermanyCanadaOceanWise |  | 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 | USAOceanWise |  |  |
| **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 | DenmarkUSA (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, MalaysiaEsri |  |  |
| **D.1** | Identify relevant standards to support MSDI implementation and operation. | H | 1. Provide annual reports to IRCC and HSSC
2. DGGS (Ref: B3)
 | Jun 17 | Jan 20 | O | OGC MarineDWG |  |  |
| **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 MarineDWG (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 | EsriOceanWiseUSAPortugalCaris  |  |  |
| **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 | OceanWiseUKUS (NGA) |  |  |
| **F.1** | Develop and maintain training syllabi | M | 1. Review and update in line with relevant developments, methods and content
 | 2018 | 2020 | O | DenmarkOceanWise |  |  |
| **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 | EsriOceanWiseKHOA |  |  |
| **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 | IHONZ(LINZ)NetherlandsUS (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 | OceanWiseEsriUSADenmarkGermanyPortugal |  | 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 |