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| * MSDIWG11-04.4 |

**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 | 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:    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 | 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 | 1. Provide annual reports to IRCC and HSSC 2. 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 |