

**9th MEETING OF THE IHO MARINE SPATIAL DATA INFRASTRUCTURES
WORKING GROUP (IHO-MSDIWG9)**

Niteroi, Brazil, 30 January - 1 February 2018

DRAFT AGENDA AND TIMETABLE

(The meeting will be preceded by the MSDI Open Forum on 29 January and by the
OGC/Marine DWG on 2 February)

Note: Presenters of papers in parentheses ()

Time	DAY ONE OF MSDIWG9 – Tuesday 30 January	Responsible
08h00	Registration	Host
09h00	<p>1. a. Welcome and opening remarks Opening of the meeting and welcome.</p> <p>b. Introduction of participants Participants will be invited to introduce themselves.</p> <p>c. Administrative Arrangements <i>Docs: MSDIWG9-01A List of Documents (Chair)</i> <i>MSDIWG9-01B List of Participants (Chair)</i> <i>MSDIWG9-01C MSDIWG Members and Expert Contributors (Chair)</i> <i>MSDIWG9-01D ToR and RoP (Chair)</i></p> <p>Documents are presented and updated as necessary. Logistic guidance and information are provided.</p>	<p>Chair/Host</p> <p>Chair</p> <p>Chair/Host</p>
09h40	<p>2. Approval of Agenda <i>Doc: MSDIWG9-02 Rev1 Agenda and Timetable (Chair)</i></p> <p>Participants are invited to comment the agenda and timetable in case updates are necessary. Agenda is adopted.</p>	Chair
09h50	<p>3. Objectives and goals of the meeting <i>Doc: MSDIWG9-03 Work Plan 2017-2020 (Chair)</i></p> <p>Chair highlights the objectives of the meeting in view of the outcomes of the Assembly, the Council and the IRCC and of the changes in SDI around the world. Short review of the MSDIWG Work Plan 2017-2020.</p>	Chair
10h00	<p>4. Matters arising from MSDIWG8 meeting <i>Doc: MSDIWG9-04 List of Actions from MSDIWG8 (Chair)</i></p> <p>List of Actions from MSDIWG8 is reviewed and updated. Ongoing and outstanding items will be either cancelled or moved to the MSDIWG9 List of Actions.</p> <p>Items for discussion: development of the Conceptual Study by OGC (Action 13), the adoption of the OGC/DGGS Standards (Action 4) and the use of GoToMeeting during MSDIWG meetings.</p>	Chair
10h30	Coffee break	Host
11h00	<p>5. Reports of other IHO bodies affecting the MSDIWG <i>Docs: MSDIWG9-05A Report by the IHO Secretariat (IHO Sec.)</i> <i>MSDIWG9-05B Request from Croatia on Licensing (IHO Sec.)</i> <i>MSDIWG9-05C MSDIWG report to IRCC9 (Chair)</i> <i>MSDIWG9-05D IRCC9 Report, including Lists of Actions and</i></p>	

	<p style="text-align: center;"><i>Decisions (Chair)</i></p> <p style="text-align: center;"><i>MSDIWG9-05E HSSC9 Report, including Lists of Actions and Decisions (Chair)</i></p> <p style="text-align: center;"><i>MSDIWG9-05F MSDIWG submission to A-1 (Chair)</i></p> <p style="text-align: center;"><i>MSDIWG9-05G A-1 List of Decisions (Chair)</i></p> <p style="text-align: center;"><i>MSDIWG9-05H MSDIWG submission to C-1 (Chair)</i></p> <p style="text-align: center;"><i>MSDIWG9-05I C-1 List of Actions and Decisions (Chair)</i></p> <p>IHO Secretariat reports on the ongoing activities at the Secretariat and the request from Croatia on Licensing. Chair highlights the outcomes of the Assembly, Council, IRCC and HSSC. Chair invites the meeting to consider the input to IRCC and the Council on the revision of the IHO Strategic Plan, ongoing work of the Strategic Plan Review Working Group (SPRWG).</p>	Chair/IHO Sec
12h30	Group photo followed by lunch break	Host
14h00	<p>6. National presentation from Members on the status of MSDI</p> <p><i>Docs: MSDIWG9-06A National Report - MSDIWG9-06B National Report -</i></p> <p>Member States report to MSDIWG the successes and challenges and ways of overcoming them.</p>	Members
14h30	<p>7. Regional and other relevant presentations on MSDI initiatives</p> <p><i>Docs: MSDIWG9-07A Arctic MSDIWG MSDIWG9-07B BS-NSMSDIWG MSDIWG9-07C Baltic MSP data expert group MSDIWG9-07D OGC Marine Domain WG MSDIWG9-07E IHO Crowd-sourced Bathymetry WG MSDIWG9-07F Marine Cadastre in Europe MSDIWG9-07G EMODNet MSDIWG9-07H UN-GGIM Marine Geospatial Information WG MSDIWG9-07I ICPC International Cable Protection Committee MSDIWG9-07J -Arctic SDI (I and II)</i></p> <p>Participants present relevant MSDI initiatives. The meeting considers the inputs to the UN-GGIM/MGIWG. The ongoing work on the Crowd-Sourced Bathymetry guidance document (draft IHO Publication B-12).</p>	All
15h30	Coffee break	Host
16h00	<p>7. Regional and other relevant presentations on MSDI (continued)</p> <p>Continuation of item 7.</p>	All
17h30	END OF DAY ONE	Chair
Time	DAY TWO OF MSDIWG9 – Wednesday 31 January	Responsible
09h00	<p>Welcome and summing up of day one</p> <p>Chair summarizes the considerations, decisions and actions from day one.</p>	Chair
09h30	<p>8. Task A of the MSDIWG Work Plan 2017-2020</p> <p><i>Doc: MSDIWG9-03 Work Plan 2017-2020 (Chair)</i></p> <p>The meeting will consider and update the MSDIWG Work Plan 2017-2020, and consider the status, challenges way ahead on activities and actions.</p>	Chair
09h30	8.1 Task A (Communication and dissemination)	Chair

	<p>A.1 Implement MSDI Maturity Assessment to enable consistent reporting from MS through RHC to IRCC (Denmark, OceanWise)</p> <p>A.2 Identify definitions, appropriate and relevant standards and components of (M)SDI.(Malaysia, GSDI)</p> <p>A.3 Develop and provide guidelines on MSDI implementation (Canada, IIC, OceanWise)</p> <p>A.4 Develop MS or RHC relevant Case Studies (Denmark, USA, Brazil, Korea)</p> <p>A.5 Create video recording of MSDI for HO and wider marine community (Korea)</p> <p>Discussion item: the improvement of the MSDIWG Body of Knowledge to include the economic impacts of MSDI with respect to hydrography.</p>	
10h00	<p>8.2 Task B (Operational data sharing and management)</p> <p>B.1 Create an implementation roadmap template for MSDI (at national and/or regional level) (USA, IIC, Esri)</p> <p>B.2 Identify core data for input to MSDI to support multiple applications (Germany, Canada, IIC, OceanWise)</p> <p>B.3 Identify wider user requirements for bathymetry data (Portugal, Canada, IIC, OGC, Caris, Esri)</p> <p>Discussion item: development of an IHO metadata platform for geodata.</p>	Chair
10h30	Coffee break	Host
11h00	<p>8.3 Task C (Policies and governances - RHC)</p> <p>C.1 Draft data policy statements for MSDI (USA, GSDI, OceanWise)</p> <p>C.2 Develop a conceptual architecture for MSDI (Malaysia, Norway, IIC)</p> <p>C.3 Develop a governance model for MSDI (Denmark, USA)</p> <p><i>Docs: MSDIWG9-08.3CArctic SDI Governance</i> <i>MSDIWG9-08.3C Danish MSDI Governances model</i></p>	Chair
11h30	<p>8.4 Task D (Standards – OGC and HSSC)</p> <p>D.1 Identify relevant standards to support MSDI implementation and operation (OGC Marine DWG)</p> <p>D.2 Assess the suitability and shortcomings of standards in supporting data interoperability (OGC Marine DWG, Portugal)</p> <p>Discussion item:</p> <ul style="list-style-type: none"> • The technical matters related to OGC and HSSC. • S-100 datasets with relevance to MSDI. <p><i>Docs: MSDIWG9-08.4A - S-100 Interoperability Specification background paper</i> <i>MSDIWG9-08.4B - S-98 Specification for Data Product Interoperability in S-100 Navigation Systems</i> <i>MSDIWG9-08.4C – Input to GUIDANCE ON CONDUCTION OF AN IMPACT STUDY</i></p>	Chair

12h00	8.5 Task E (Innovation – future perspectives) 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 (Portugal, USA, Esri, OceanWise) E.2 Establish an IHO MSDI vision for 2030 (UK, OceanWise and report to IRCC 10)	Chair
12h30	Lunch break	Host
13h30	8.6 Task F (Training and education) F.1 Develop and maintain training syllabi (Denmark, OceanWise) F.2 Support development and delivery of e-learning platforms (GSDI, Esri, OceanWise) F.3 Develop a MSDI communications plan (IHO Sec., GSDI) Discussion item: potential for an education platform for MSDI, including e-learning.	Chair
14h00	8.7 Task G (Maintain and extend the IHO Publication C-17) G.1 Maintain IHO publication C-17 to reflect developments in ICT, Content, Standards and Governance of MSDI (Ref: Draft Ed. 2.0.0 IHO Publication C-17) (USA, Denmark, Germany, Portugal, OceanWise) Discussion item: how to progress C-17 to be fit for purpose with new format, including impacts on security and removal from the annex to IHO Resolution 2/2007. <i>Docs: MSDIWG9-08.7 - IHO Publication C-17</i>	Chair
14h30	8.8 Task H (Conduct annual meetings of MSDIWG, MSDI Open Forum and OGC Marine DWG) H.1 Conduct 2018-2020 meetings of MSDIWG, arranged back to back with 1-day MSDI Open Forum and OGC Marine DWG (MSDIWG Management Group: Chair, Vice Chair, Sec, IHO Sec) Discussion item: organize a workshop on MSDI during the future MSDI Open Forums.	Chair
15h00	Coffee break	Host
15h30	8. Continuation of the review of tasks Establishment of work groups if deemed necessary	Chair
17h00	END OF DAY TWO	Chair
Time	DAY THREE OF MSDIWG9 – Thursday 1 February	Responsible
09h00	Welcome and summing up of day two Chair summarizes the considerations, decisions and actions from day two.	Chair
09h30	9. Feedback and establishment of the way ahead Chair leads the debate on the current work and establishment of the way ahead.	Chair
10h30	Coffee break	Host
11h00	10. Updating the MSDIWG work plan 2017-2020 and action list <i>Docs: MSDIWG9-10A List of Actions MSDIWG9-10B Updated work plan 2017-2020</i>	

	MSDIWG work plan 2017-2020 will be updated and the List of Actions will be built during the meeting.	Chair
12h30	Lunch break	Host
13h30	10. Updating the MSDIWG work plan 2017-2020 and action list Continuation of item 10.	Chair
14h00	11. Drafting the MSDIWG9 Report <i>Docs: MSDIWG9-11 Draft MSDIWG9 Report</i> Preparation of the draft MSDIWG9 Report. Draft the key messages, requests and recommendations of MSDIWG to IRCC and to the RHCs.	Chair
15h00	Coffee break	Host
15h30	12. Any other business MSDIWG will consider any other business.	Chair
16h00	13. Election of the Chair and Vice-Chair <i>Doc: MSDIWG9-13 Nomination of Candidates for Chair and Vice-Chair (IHO Sec)</i> The Chair will introduce doc. MSDIWG9-13 with the candidates for MSDIWG Chair and Vice-Chair for the period 2018-2020 and will invite the MSDIWG to elect the new Chair and Vice-Chair.	Chair
16h30	14. Next MSDIWG Meetings (venue and date) Definition of the dates and venue for MSDIWG10 and if possible for MSDIWG11 and MSDIWG12. The current status is: MSDIWG10 – Republic of Korea (2019, exact dates and venue TBD) MSDIWG11 – waiting for candidates MSDIWG12 – waiting for candidates	Chair
17h00	15. Closure Chair ends the meeting.	Chair
17h15	END OF THE MEETING	Chair