

LIST OF ACTIONS FROM THE MSDIWG14 MEETING 2023

Action N.	Action Items (agenda item)	Responsible	Deadline	Status
04/2017	Action 4/2017: Submit an updated paper to HSSC11 outlining further development and implementation of DGGS.	OGC Marine DWG	2023	OGC Marine DWG investigating delivery of this.
04/2018	Action 4/2018: MSDI case studies: provide 500- word (maximum) examples for MSDI BoK.	Malaysia, Indonesia, RoK, USA	March 2020	Closed
19/2018	Action 19/2018: Include "economic impacts" of MSDI with respect to hydrography in the MSDI BoK. MSDIWG Members to send relevant reports and case studies for BoK.	All, IHO Secretariat	December 2019	Members invited to send relevant reports and case studies to the IHO Secretariat Ongoing
04/2019	To investigate the development of a "Guide on Standards for the Common People" to be made available in the BOK (6)	OGC Marine DWG	April 2019	Closed – refer to UN-GGIM standards Guide ed 3
05/2019	To add the OGC "Guide on Standards for the Common People" in the BOK from Action MSDIWG10/04 (6)	IHO Secretariat	May 2019	Closed – refer to UN-GGIM standards Guide ed 3
06/2019	To share MSDI use cases as they are developed by the EAHC/MSDIWG and report the status to the MSDIWG (7)	EAHC MSDIWG	MSDIWG11	Investigate. Members welcomed to share MSDI use-cases
10/2019	To investigate how to make the e-learning developed by Denmark in the EAHC TRDC e-learning platform hosted by ROK (10)	ROK, Denmark September	2019	Done
14/2019	To develop an outreach strategy considering the target audience and the means to do it and report back to MSDIWG (11.1.1)	MSDIWG Chair/Vice-Chair	MSDIWG14	Awaiting. MSDIWG can reference the CSBWG outreach materials. We should try to investigate and see how we can investigate outreach activities.
19/2019	To submit a paper to HSSC on data integrity for MSDI with a precise description of the problem to be solved (11.2)	OGC Marine DWG	HSSC12	Closed
23/2019	To prepare a paper to submit the template on maturity assessment produced under Agenda MSDIWG10/22 to IRCC (11.3.1)	MSDIWG Chair	IRCC11	Closed
24/2019	To investigate the possibilities for the development of an online living C-17 publication (12.1)	MSDIWG Chair, Vice Chair and IHO Secretariat	MSDIWG14	Ongoing

25/2019	To investigate the incorporation of the living C-17 to the IHO website infrastructure (12.1)	IHO Secretariat	MSDIWG14	Ongoing
26/2019	To consider the draft C-17 produced under Actions MSDIWG10/25 and to submit to IRCC12 (12.1)	MSDIWG11	MSDIWG12	Closed
01/2020	To draft a CL on MSDIWG11 outcomes (CDS, questionnaire, video)	IHO Secretariat	MSDIWG12	Closed
03/2020	To update the BoK with the list of marine themes.	IHO Secretariat	MSDIWG14	Ongoing
9/2020	To send questions from MSDI Maturity Assessment Survey out to MSDIWG MS for comment.	VC/MSDIWG	MSDIWG12.	Closed
10/2020	Investigate distribution options for MSDI Maturity Assessment Survey.	C & VC/MSDIWG	MSDIWG12.	Done
11/2020	Possibly turn MSDI Maturity Assessment Survey in to IHO Online Form.	VC/MSDIWG, IHO Secretariat	MSDIWG12.	Closed
12/2020	Release MSDI Maturity Assessment to IHO and share with UN-GGIM WG-MGI.	C & VC/MSDIWG, IHO Secretariat	MSDIWG12	Done
13/2020	Update to C-17 to be included in MSDIWG work plan and investigate a new format (e.g. Wiki). Include IGIF in update of C-17 (crosswalk)	C/MSDIWG, CoChair UN-GGIM WG-MGI	MSDIWG14	Awaiting
14/2020	Establish a drafting group for C-17.	C/MSDIWG	MSDIWG14.	Awaiting
16/2020	Investigate possibilities for funding for enhancements to training material.	C/MSDIWG	MSDIWG12	Closed
17/2020	Create Spanish version and French versions for enhancements to training material.	IHO Secretariat	MSDIWG13	Closed All materials transferred to IHO e-learning center team
19/2020	To work on the landing page (i.e. home page) for training material.	MEX, IHO Secretariat	MSDIWG12.	Closed
20/2020	How to investigate the possibility of train the trainee for MSDI training material.	C/MSDIWG IHO Secretariat	MSDIWG12	Closed
21/2020	Submit the MSDI use cases to the UN-GGIM/WGMGI.	IHO Secretariat	MSDIWG12	Done
22/2020	Developing the MSDI use cases in a future revision of the IHO publication C-17	C-17 Drafting Group	MSDIWG14	Awaiting
23/2020	Template framework for MSDI use cases in MSDI BOK	NZL, VC/MSDIWG, IHO Secretariat	MSDIWG13	Done
28/2020	Create use cases for MSDI-supportable UN SDGs identified by MSDIWG breakout group.	CAN, GBR, BRA	MSDIWG13	
29/2020	Visualize/describe governance model in C-17, training material and body of knowledge.	C & VC/MSDIWG, IHO Secretariat	MSDIWG14	Awaiting
30/2020	Update MSDIWG ToR with C-17 maintenance	C/MSDIWG & IHO Secretariat	MSDIWG13	Done To submit to IRCC15
31/2020	IHO Strategic Plan 2.1: Build a portal to support and promote regional and	C & VC/MSDIWG, IHO Secretariat	MSDIWG12	Ongoing

	international cooperation in marine spatial infrastructures (MSDI).			
32/2020	IHO Strategic Plan 2.3: Apply UN shared guiding principles for geospatial information management in order to ensure interoperability and extended use of hydrographic data in combination with other marine-related data.	C & VC/MSDIWG, IHO Secretariat	MSDIWG12	Done Following WEND 100-Matrix
33/2020	Value proposition statement prepared for MSDI MS who have not yet engaged in the process (1 page)	OceanWise, OGC	MSDIWG13	Closed
1/2021	To investigate if status of national MSDI implementation in the national reports, could use the NZ matrix as a new starting point?	C/MSDIWG, NZL	MSDIWG13	Closed
2/2021	To circulate the Arctic SDI Governance documents to the MSDIWG MS	C/MSDIWG & C/ARMSDIWG	MAR 2021	Done https://arctic-sdi.org/documents/strategic-documents/ and Body of knowledge.
3/2021	C/MSDIWG should include Arctic SDI Governance document in MSDIWG report to IRCC			Done
4/2021	To give a presentation of the FAIR principles at the next MSDIWG meeting	C/MSDIWG	MSDIWG12 (in person OCT)	Closed
5/2021	IHO Secretariat to circulate Draft Work Plan 2021 – 2024 to MS	IHO Secretariat	MAR 2021	Done
6/2021	MSDIWG MS to comment and indicate their participation in the Draft Work plan	MSDIWG MS	APR 2021	Done
7/2021	IHO Secretariat to circulate Draft updated Action list to MS	IHO Secretariat	MAR 2021	Done
8/2021	MSDIWG MS to comment and indicate their participation in the Draft updated Action list	MSDIWG MS	APR 2021	Done
9/2021	Circulate IGIF-H (when available) to MSDIWG MS for comment.	C/UN-GGIM WG-MGI & C/MSDIWG	Pending	Closed
1/2021	Make proposal/paper to IRCC linking MSDI and S100 implementation beyond Safety of Navigation. Circulate to MSDIWG MS for comment.	C/MSDIWG, IIC	IRCC13	Closed
12/2021	Send out draft UN-GGIM Standards Guide Ed. 3	SGP	MAY 2021	Done
13/2021	MSDIWG MS invited to comment on draft UNGGIM Standards Guide Ed. 3	MSDIWG MS	MAY 2021	Done
14/2021	Review MSDIWG action list for ideas to participate in the joint IHO-Singapore Innovation and Technology Lab. -e.g. development of automatic data harvesting prototype for marine spatial data (ref. Arctic SDI project)	C/MSDIWG, SGP	JUN 2021	Done

15/2021	Investigate how MSDIWG can provide information to IHO e-Learning Project team	C/MSDIWG,	IIC JUN 2021	Done
16/2021	Investigate funding to update IHO e-Learning resources	C/MSDIWG	JUN 2021	Done
1/2022	Nominate contact points from Data Quality WG, NIPWG and S100WG to report back to MSDIWG on relevant MSDI matters	S100WG – OGC MarineDWG/II C Technologies	MSDIWG14	Awaiting
2/2022	Compile list of relevant S-1xx products point of contacts		MSDIWG14	the contact point to S-1XX (Jonathan P) Done MSDIWG14
3/2022	MSDIWG to identify the S-1xx products that could be relevant for MSDI users		MSDIWG14	Done MSDIWG14
4/2022	SWPHC MSDI WG to update terms of reference on making data in line with the UN SDG goals and UN Shared Principles	SWPHC Chair/UK and MSDIWG	MSDIWG14	SWPHC MSDI should set the pace
5/2022	MSDIWG and UNGGIM WG MGI to work together to identify common use-cases for bathymetry data residing in DCDB and Seabed 2030	MSDIWG and UN-GGI WG MGI	MSDIWG15	Done MSDWIG14
6/2022	MSDIWG to identify use-cases of crowdsource bathymetry	MSDIWG	MSDIWG14	Done MSDWIG14
7/2022	MSDIWG to test the MSDI Training Materials on the IHO e-learning portal (https://elearning.iho.int)	MSDIWG	MSDIWG14	Done
8/2022	OGC to provide guideline or Recipe Book and showcase(s) for Hydrographic Offices to implement OGC APIs	OGC Marine DWG	MSDIWG14	Necessary to liaise with OGC or they will forget (Chair)
9/2022	OGC API - Feature Link to be made available to Body of Knowledge	OGC Marine DWG	MSDIWG14	Necessary to liaise with OGC or they will forget (Secretary) TT
10/2022	OGC to provide presentation on OGC APIs for MSDIs at MSDIWG14	OGC Marine DWG	MSDIWG14	Done
11/2022	OGC to share links to latest OGC APIs for dissemination to MSDIWG	OGC Marine DWG, IHO Secretariat	MSDIWG14	Necessary to liaise with OGC or they will forget (Secretary)TT(09/2022)
12/2022	OGC to provide draft guidance on how to follow the FAIR principles from HO perspective	OGC Marine DWG	MSDIWG14	Necessary to liaise with OGC or they will forget (Chair) It is necessary to report to IRCC15 (IRCC14/Action 5)
13/2022	MSDIWG to follow-up on IRCC14's outcomes of the IRCC Workshop and suggest how MSDI could contribute to SPI 2.3.1	MSDIWG Vice-Chair	MSDIWG14	Done
14/2022	MSDIWG to explore practical approach or best practices on principles for MSDIs	MSDIWG Vice-Chair	MSDIWG14	Template in the BoK, revisit it (Chair and

				Vice-Chair) – include in C-17
15/2022	MSDIWG to include proposed FAIR principles checklist to be included in report.	OGC Marine DWG; Norway	MSDIWG14	Necessary to liaise with OGC or they will forget (Chair)
16/2022	MSDIWG to establish a C-17 Drafting Team	MSDIWG Vice-Chair USA (NGA) Italy	August. 2022	Done
17/2022	C-17 Drafting Team to provide a first version at MSDIWG14	MSDIWG Vice-Chair USA Italy	MSDIWG14	Done
18/2022	MSDIWG to investigate the role of MSDI in Maritime Digital Twin, how to proceed and the possibility to establish a pilot project together with the IHO-Singapore Innovation and Technology Laboratory with Singapore as a pilot study area. Status Report to be provided at MSDIWG14.	MSDIWG Chair and Vice-Chair Netherlands IHO-Singapore Innovation Technology Laboratory OGC Marine DWG	MSDIWG14	Awaiting The DT is created necessary to meet, invite more members, establish a plan and liaise with IHO Lab.
19/2022	MSDIWG to provide feedback on WENDWG's WEND Product Matrix from MSDI perspective when deemed appropriate.	WENDWG Chair, IHO Secretariat	MSDIWG14	Done
20/2022	UKHO to provide relevant S100 guideline from MSDI perspective that could be made available on BoK.	UKHO, MSDIWG Chair and Vice-Chair	MSDIWG14	Closed UKHO to provide it. (Vice-Chair)
21/2022	OGC FMSDI S-122 Engineering Report to be made available to the MSDIWG when made public	MSDIWG Chair OGC	August 2022	Awaiting Dependent on the availability of the Report (Chair)
22/2022	An expert group to explore MSDIWG's task related to Target 2.1 Build a portal to support and promote regional and international cooperation in marine spatial data infrastructures (MSDI). Step 1: Make data that is already available into INTogIS and Step 2: establish a hub	MSDIWG Chair and Vice-Chair, ESRI	MSDIWG14	On hold Meeting within the IHO Secretariat in September? (Secretary)
23/2022	Recommendation for Step 2: establish a hub, to be submitted at MSDIWG14	ESRI	MSDIWG15	On hold – A-3 Have input from ESRI. (Vice-Chair)
24/2022	An online workshop to be convened to further discuss Step 2: establish a hub for Target 2.1 Build a portal to support and promote regional and international cooperation in marine spatial data infrastructures (MSDI).	MSDIWG Chair and Vice-Chair, ESRI	MSDIWG15	On hold – A-3 First is necessary to have the information from ESRI about the concept, requirements for implementation and evaluation cost/benefit
25/2022	Hosting the MSDIWG14 and coordination with the UN-GGIM Working Group on Marine Geospatial Information and OGC Marine DWG on back-to-back meetings.	IHO Secretariat MSDIWG Chair and Vice-Chair Italy	MSDIWG14	Done

26/2022	Hosting the MSDIWG15 and coordination with the UN-GGIM Working Group on Marine Geospatial Information and OGC Marine DWG on back-to-back meetings.	IHO Secretariat MSDIWG Chair and Vice-Chair Indonesia	MSDIWG15	Secretary will liaise with Indonesia to define the venue at MSDIWG15.
01/2023	Submit the amended Terms of Reference to IRCC15.	MSDIWG Chair	IRCC15	
02/2023	WG to consider and discuss “MSDI Vision for the Future”	MSDIWG	MSDIWG15	
03/2023	WG to continue to consider “What does S-100 mean for MSDI? What role can MSDI play in S-100?”	MSDIWG Chair and Vice-Chair, S-100 PoC	MSDIWG15	Reach out to S-102 project team as part of reviewing the uses of S-100 beyond navigation
04/2023	WG to investigate with the IHO Secretariat the possibility to incorporate a function on INTogIS for other communities to contact and contribute with marine-related spatial data	IHO Secretariat	MSDIWG15	
05/2023	Members invited to send or update the links to national SDI/ MSDI portals to the MSDIWG Secretary	MSDIWG	MSDIWG15	
06/2023	Provide Policy and Legal case study for C-17	Italy	June 2023	
07/2023	Provide link to authoritative data paper and ensure alignment in C-17	C-17 Drafting Team		UN-GGIM Policy and Legal Framework WG paper
08/2023	Provide presentation about Marine Base Map land/sea data continuity solutions	RoK	MSDIWG15	
09/2023	Share FAIR Principles Guide when it becomes available	Norway		
10/2023	Share Data Value Proposition leaflet with MSDWIG	SWPHC MSDIWG		
11/2023	Create a list of RHC MSDI WGs and MSDI ambassadors	IHO Secretariat	MSDIWG15	
12/2023	Develop “Best-Practices” or “Rules of Procedure” document for engaging regional MSDI Working Groups and detail operational successes; possibly reference IHO MSDIWG Case Study Template on MSDIWG BoK	MSDI Ambassadors - Australia, USA (NGA), Italy, Portugal, Denmark		
13/2023	Develop status (active/ non-active) survey for regional MSDI Working Groups to get a sense of the level of activity in each	MSDI Ambassadors - Australia, USA (NGA), Italy, Portugal, Denmark		
14/2023	Assist S-100 Coordinators in RHCs in completing MSDI section of S-100 WEND100 IGIF Matrix	MSDI Ambassadors/ S-100 Contact Point		
15/2023	Contact regional MSDIWG via RHCs to assess possible S-1xx product themes for use cases beyond navigational use		MSDIWG16	
16/2023	Repurpose Norway FAIR Principles Guide when delivered for MSDIWG use	OGC		
17/2023	OGC - FAIR+ presentation to be presented at MSDIWG15	OGC	MSDIWG15	

18/2023	Submit 7 QMPs Table with coordination with C/IRCC	MSDIWG Chair		Rephrase QMP4 ISO 9001 Principles application to MSDI Decision and Action C6/71
19/2023	Identify potential Digital Twin requirements in the respective Regional Hydrographic Commissions	Regional MSDIWGs	3 months before MSDIWG15	
20/2023	Create questionnaire to HOs on Digital Twin data, service and/or infrastructure requirements			
21/2023	Report to IRCC15 on how MSDI and HOs can be part of Digital Twins in the future		IRCC15	Action IRCC14/6
22/2023	Provide national marine science data standards to BoK when ready	Singapore		
23/2023	Invite MS to provide case studies and comments to C-17 3.0 Draft	MSDIWG	March 2023	
24/2023	WG to inform CBSC Intercessional about C-17 3.0 draft and submit to IRCC15	C/ VC MSDIWG	March/ April 2023	

IRCC14:

Action 5: MSDIWG to provide recommendations to IRCC 15 on how IHO MS can use the FAIR principles and establish a HO MSDI FAIR principles check list.

MSDIWG13 actions 12 and 15/2022 related

Action 6: MSDIWG to provide recommendations to IRCC 15 on how MSDI and HOs can be part of Digital Twins in the future.

MSDIWG13 action 18/2022 related

Action 7: MSDIWG to revise the IHO publication C-17.

MSDIWG13 action 17/2022 related

Decision 28: Take note of the S-100 initiatives from a MSDI perspective.

Action 8: MSDIWG to investigate in liaison with the IHO Secretariat, having in consideration the possibilities, challenges and resources required, the establishment of a basis MSDI portal solution building on the already existing INTOGIS solution and other available data.

MSDIWG13 actions 13 and 22/2022 related

Action 9: MSDIWG to investigate in liaison with the IHO Secretariat the different possibilities, challenges and resources need for step 2 of the MSDI Portal (an IHO marine data hub network) in order to have the information needed to take a decision about implementing step 2 and to present the recommendations at IRCC 15.

MSDIWG13 actions 23 and 24/2022 related

Decision 29: The MSDI draft questionnaire to be forwarded to the IHO Secretariat inviting, if deemed appropriate, to send it out to the IHO MS.

I will circulate it in September, it is acceptable? Approved in September responses until November digest the information to present at MSDIWG14