

**4th IHO-HSSC Meeting  
Taunton, UK, 25-28 September 2012**

**Report of the Marine Spatial Data Infrastructure Working Group**

<b>Submitted by:</b>	Chairman, MSDIWG
<b>Related Documents:</b>	None
<b>Related Projects:</b>	None

<b>Chair:</b>	Jens Peter Hartmann, Denmark
<b>Vice-Chair:</b>	Vacant
<b>Secretary:</b>	Vacant
<b>Member States:</b>	Argentina, Australia, Brazil, Canada, Cuba, Denmark, Estonia, Finland, France, Germany, Italy, Japan, Korea (Rep of), Latvia, Nigeria, Netherlands, Norway, Portugal, Romania, Slovenia, Spain, Singapore, Sweden, Ukraine, UK, USA
<b>Expert Contributor</b>	John Pepper Consultancy Ltd; CARIS; ESDI; Ocean Wise Ltd
<i>See Annex A for full details of membership</i>	

**Meetings Held During Reporting Period**

No meetings have taken place in the period. The last MSDIWG3 meeting took place in 2009 in Monaco. The working group has corresponded via e-mail during the reporting period.

**Next Planned Meeting**

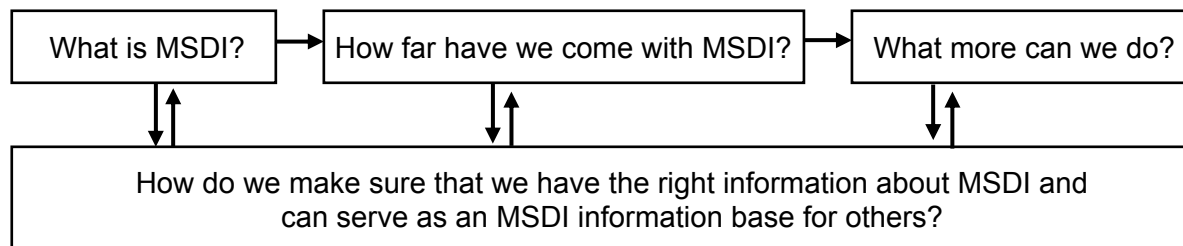
MSDIWG4 is planned to take place in Copenhagen January or February 2013 as a back-to-back arrangement with an MSDI conference. The MSDIWG4 meeting and the MSDI conference will be arranged by KMS.

**Work Programme**

The working group has corresponded via e-mail since the last report to the HSSC but with no significant new work items being identified or progressed. Nevertheless, the need for monitoring and assisting Member States has remained.

A first draft of a work programme has been distributed to the WG members. At the proposed MSDIWG4 meeting in 2013, discussion and identification of any new work items will be progressed and a proposed revision of the existing work plan will be developed if necessary. The group may also consider proposing changes to the MSDIWG Terms of Reference. These would be presented to HSSC5 for approval.

The following is a draft work programme that has been developed with a view towards a five-year horizon. It includes seven proposed initiatives that the MSDIWG will review and may propose to adjust at the WG's next meeting.



**Initiative 1: What is MSDI? – A general approach to MSDI**

**Aim:** To create a general and uniform understanding of the key elements of MSDI, including concept descriptions of four subareas:

- Technical issues
- Data and harmonisation
- Governance
- Liaison with other organisations

**Deliverables:** A review of MSDI that includes conceptual descriptions of the four subareas of MSDI. An MSDI wiki can support the documentation process. This activity will also result in a revision of the IHO MSDI pub C-17.

**Initiative 2: How far have we come with MSDI? – A review and status report**

**Aim:** To review regional and national status of MSDI development, and to survey benefits and challenges related to MSDI implementation.

**Deliverables:** A MSDI review and status report, that identifies examples of MSDI best practise and a survey of benefits and challenges related to MSDI implementation

**Initiative 3: What more can we do? – A strategic approach to further MSDI development**

**Aim:** To address the opportunities and challenges for MSDI, leading to the creation of strategic plan for how the working group can support the MSDI development within the IHO and among the Member States

**Deliverables:** A SWOT and GAP analysis, an MSDI strategy and a revised work plan. Pilot MSDI projects may be created or facilitated among the Member States, and an IHO metadatabase can be launched based on open-source technology

**Initiative 4: Training and communication**

**Aim:** To ensure that the working group’s members are adequately trained and prepared to actively move MSDI development forwards, and to position the working group as a hub of expertise concerning MSDI. Further, to ensure that MSDI stakeholders are linked to other SDI initiatives as a way to ensure that MSDI is integrated into larger scale SDI work.

**Deliverables:** A study of the need for education and training among the Member States and possible arrangement of training events. The group will arrange annual MSDIWG conferences, if possible as back to back arrangements with MSDIWG meetings, and represent the working group in relevant fora, events and conferences. This will be achieved in part through liaising with relevant organisations and projects, including the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM), IMO in the context of e-Navigation, the European INSPIRE implementing bodies, Arctic SDI and Global SDI.

## Progress on HSSC Action Items

Agenda Item	Subject	Action No	Actions	
5.7	MSDI	HSSC3/14	<b>MSDIWG Chair</b> to take into account the topics in paper HSSC3-INF6, in the MSDIWG work plan	Progress. Will be discussed at MSDIWG4.

### Problems Encountered

None

### Any Other Items of Note

None

### Conclusions and Recommended Actions

HSSC4 is recommended to endorse the continued activity of MSDIWG.

### Action Required of HSSC

The HSSC is invited to:

- a. **note** this report
- b. **agree** the continuation of MSDIWG under its current Terms of Reference

**Marine Spatial Data Infrastructure WG (MSDIWG)****Membership List**

(7 August 2012)

<b>Member States</b>	<b>Name</b>	<b>E-mail</b>
Argentina	Mr Rolando RIOS	<a href="mailto:rolando.o.rios@gmail.com">rolando.o.rios@gmail.com</a>
Australia	Mr Gordon HOMES	<a href="mailto:Gordon.homes@defence.gov.au">Gordon.homes@defence.gov.au</a>
Brazil	Cdr Nicolás de ANDRADE ROSCHER	<a href="mailto:roscher@chm.mar.mil.br">roscher@chm.mar.mil.br</a>
Canada	Mr Marc JOURNAULT	<a href="mailto:journaultm@dfo-mpo.gc.ca">journaultm@dfo-mpo.gc.ca</a>
Cuba	LCdr Angel ACANDA REYES	<a href="mailto:onhg@enet.cu">onhg@enet.cu</a>
Denmark	Ms Suzanne SLARSKY DAEL Mr Jens Peter Hartmann ( <b>Chair</b> )	<a href="mailto:susla@kms.dk">susla@kms.dk</a> <a href="mailto:jepha@kms.dk">jepha@kms.dk</a>
Estonia	Mr Peeter VÄLING	<a href="mailto:Peeter.Valing@vta.ee">Peeter.Valing@vta.ee</a>
Finland	Mrs Maarit MIKKELSSON	<a href="mailto:Maarit.Mikkellsson@liikennevirasto.fi">Maarit.Mikkellsson@liikennevirasto.fi</a>
France	Ms Caroline TEXIER	<a href="mailto:caroline.texier@shom.fr">caroline.texier@shom.fr</a>
Germany	Mr Johannes MELLES	<a href="mailto:Johannes.Melles@bsh.de">Johannes.Melles@bsh.de</a>
Italy	Cdr Alessandro NOBILI	<a href="mailto:alessandro.nobili@marina.difesa.it">alessandro.nobili@marina.difesa.it</a>
Japan	Mr Shigeru KASUGA	<a href="mailto:ico@jodc.go.jp">ico@jodc.go.jp</a>
Korea (Rep of)	Mr Seong-Kyu KONG	<a href="mailto:skkong@korea.kr">skkong@korea.kr</a>
Latvia	Mr Mikus RANKA	<a href="mailto:mikus.ranka@lhd.lv">mikus.ranka@lhd.lv</a>
Nigeria	Capt AA MUSTAPHA	<a href="mailto:nnho_nnhydrographicoffice@yahoo.com">nnho_nnhydrographicoffice@yahoo.com</a>
Netherlands	Mr Erwin WORMGOOR	<a href="mailto:em.vos@mindef.n">em.vos@mindef.n</a>
Norway	Mr Gerhard HEGGEBØ	<a href="mailto:gerhard.heggebo@statkart.no">gerhard.heggebo@statkart.no</a>
Portugal	Mr Rui Reino BAPTISTA LCdr António MARTINS PINHEIRO	<a href="mailto:reino.baptista@hidrografico.pt">reino.baptista@hidrografico.pt</a> <a href="mailto:martins.pinheiro@hidrografico.pt">martins.pinheiro@hidrografico.pt</a>
Romania	Mr Anton DRAGOȘ	<a href="mailto:hidro@rdslink.ro">hidro@rdslink.ro</a>
Slovenia	Mr Igor KARNIČNIK	<a href="mailto:igor.karnicnik@geod-is.si">igor.karnicnik@geod-is.si</a>
Spain	Lt Alberto FERNÁNDEZ Ros	<a href="mailto:ihmesp@fn.mde.es">ihmesp@fn.mde.es</a>
Singapore	Mr LIM Wee Kiat	<a href="mailto:wklim@mpa.gov.sg">wklim@mpa.gov.sg</a>
Sweden	Mr Patrik WIBERG	<a href="mailto:Patrik.Wiberg@sjofartsverket.se">Patrik.Wiberg@sjofartsverket.se</a>
Ukraine	Mr Oleg MARCHENKO	<a href="mailto:office@hydro.gov.ua">office@hydro.gov.ua</a> <a href="mailto:ukrmaps@ukrpack.net">ukrmaps@ukrpack.net</a>
UK	Mr Robin HENSLEY	<a href="mailto:Rob.Hensley@ukho.gov.uk">Rob.Hensley@ukho.gov.uk</a>
USA	Ms Maureen KENNY Mr Kurt A. NELSON Mr John W. VONROSENBERG	<a href="mailto:Maureen.Kenny@noaa.gov">Maureen.Kenny@noaa.gov</a> <a href="mailto:Kurt.A.Nelson@noaa.gov">Kurt.A.Nelson@noaa.gov</a> <a href="mailto:John.W.Vonrosenberg@nga.mil">John.W.Vonrosenberg@nga.mil</a>

<b>Expert Contributors</b>	<b>Name</b>	<b>E-mail</b>
John Pepper Consultancy Ltd	Mr John PEPPER	<a href="mailto:info@johnpepperconsultancy.com">info@johnpepperconsultancy.com</a>
CARIS	Mr Paul COOPER Mr Peter SCHWARZBERG	<a href="mailto:paul.cooper@caris.com">paul.cooper@caris.com</a> <a href="mailto:peter.schwarzberg@caris.nl">peter.schwarzberg@caris.nl</a>
ESRI	Mr Rafael Ponce	<a href="mailto:rponce@esri.com">rponce@esri.com</a>
Independent Consultant	Dr Mike OSBORNE	<a href="mailto:mike.osborne@oceanwise.eu">mike.osborne@oceanwise.eu</a>

**IHO Marine Spatial Data Infrastructure Working Group Work Plan 1/2011**  
**(To be revised at MSDIWG4)**

- A Investigate methods for IHO to support MS' capability development in MSDI
- B Monitor national and international marine SDI activities and liaise to increase visibility
- C Identify and recommend possible solutions to significant technical issues related to interoperability

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard
A.1	Add educational content to IHO Web site on MSDI	M	Set up schedule for presentations/papers from WG members/ others to be developed and offered via Web site for 2012  Post presentations/ papers	Oct 2011  Jan 2012	Dec 2011  Ongoing	P	Chair/Vice Chair; MSDIWG	
A.2	Investigate options through IHB to transition/integrate team to discussion forum group or group of experts	H	Compile list of options  Make recommendations to HSSC	May 2012  Aug2012	Aug 2012  Sep 2012	P	Chair/Vice Chair; MSDIWG	
B.1	Reissue 2008 questionnaire (updated) if appropriate	M	Review 2008 survey and determine possible gain from a second survey  Prepare updated questionnaire  Analyze and report on results	Oct 2011  Jan 2012  Jun 2012	Dec 2011  Mar 2012  Sep 2012	P	Chair/Vice Chair; MSDIWG	Results from 2008 survey (available from IHB)

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s)	Related Pubs/Standard
C.1	Identify and make available MS Web sites/papers that address technical issues such as datums, Web services for charting data (e.g., WMS, WFS)	M	Poll WG members for input  Work with IHB to place on IHO Web site  Poll MS via questionnaire if reissued	Nov 2011  Feb 2012  Mar 2012	Ongoing  Ongoing  Aug 2012	P	Chair/Vice Chair; MSDIWG	
C.2	Prioritize data layers useful to non-navigational community	M	Establish top 20 list	Apr 2012	Jun 2012	P	Chair/Vice Chair; MSDIWG	S-57
C.3	Liaise with TSMAD about S-100 use in support of SDI activities including INSPIRE	L  L	Determine if issues of concern exist in WG over new standards  Obtain feedback from TSMAD on MSDIWG group-established topics	Oct 2011  Jan 2012	Dec 2011  Feb 2012	P	Chair/Vice Chair; MSDIWG	

H = High, M = Medium, L = Low  
P = Planned, O = Ongoing, C = Completed