



International Hydrographic Organization

IENWG-4

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Articulation between HSSC, MSDIWG and IENWG
on Spatial Data Infrastructure issues

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Background

- 2005 : Seminar in Rostock on “The role of Hydrographic Services with regard to Geospatial Data and Planning Infrastructure”

The effective implementation of an infrastructure for spatial information requires coordination by all those with an interest in the establishment of such infrastructures and the IHO and its Member States have a significant role to play in this regard.

=> CHRIS (now HSSC) identified as the appropriate IHO body to consider this issue and to advise the Organization in order to:

- a) Define customer/client needs;
- b) Define core data held by HOs;
- c) Create a framework for SDIs;
- d) Define strategies and mechanisms for implementation of SDI;
- e) Develop a communication plan for both internal and external stakeholders.



Background

■ IHC-17 (2007):

- Establishment of the MSDIWG under CHRIS (now HSSC)
- IHO Work Programme 2008-2012:

Element 3.5 Data for Geomatics Application

Objective: Facilitate the optimal use of hydrographic data for purposes other than navigation.

Task 3.5.1 Development of Standards

Develop processes under which Hydrographic Data and Exchange Products Specifications may be created under S-100.

Develop standards for coastal zone hydrographic surveys in support of coastal zone management, protection of the environment and natural hazards (eg tsunamis).

Task 3.5.2 Maritime Spatial Data Infrastructure

Monitor global geomatics development, especially those connected with coastal zone data management and the development of national, regional and global spatial data infrastructure and to provide guidance to MSs as appropriate.

■ EIHC-4 (2009)

- IHO Strategic Plan:

Strategic Direction 2:

Facilitate global coverage and use of official hydrographic data, products and services

The IHO will strive to achieve global coverage and availability of high quality official hydrographic data, information, products and services necessary for safety of navigation at sea and for non-navigational uses, e.g. by means of the developing spatial data infrastructure.



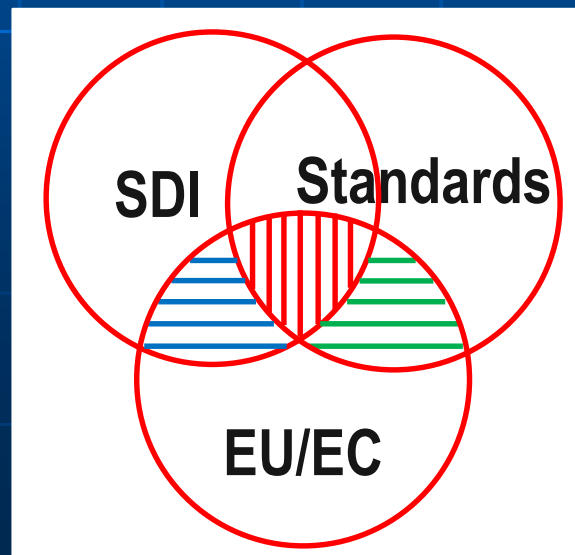
Background

- 2008-2010: MSDIWG develops C-17 - *Spatial Data Infrastructures: “The Marine Dimension” - Guidance for Hydrographic Offices*
- 2010-2012: WG dormant
- 2012-2013:
 - New Chair re-activates the WG
 - IRCC-5 decides to establish IENWG
 - HSSC-5 questions whether the group should sit under HSSC or IRCC
- 2014-2015
 - IRCC-6 proposes moving MSDIWG subordination from HSSC to IRCC
 - HSSC-6
 - approves the transfer under IRCC from 1 Jan 2015
 - maintains an agenda item on MSDIWG activities affecting HSSC
 - HSSC-7 considers MSDIWG report forwarded through IRCC:
 - 3 out of 7 requests from MSDIWG to HSSC relate to EU issues (see IRCC7-08E rev 1):
 - Does EC-JRC, in developing INSPIRE specifications; take account of S-100 Universal Hydrographic Data Model?
 - Make IHO EU MS's aware of the importance of engaging in the INSPIRE implementation and maintenance processes in the INSPIRE MIG framework
 - Make IHO EU MS aware of the EU Location Framework of which Norway is Vice-Chair.



Discussion

- **HSSC:**
 - Objective: promote and coordinate the development of standards, specifications and guidelines for official products and services to meet the requirements of mariners and other users of hydrographic information
- **MSDIWG:**
 - Objective: support the activities of the IHO related to Spatial Data Infrastructures (SDI) and/or Marine Spatial Data Infrastructures (MSDI)
- **IENWG:**
 - Objective: deal with EU/EC matters and manage the IHO/EC MOU



Discussion

■ SDI versus EU/EC issues

- TOR IENWG: Identify EU activities and processes on matters of interest to Hydrographic Offices (HOs)
- TOR MSDIWG: Monitor national, **regional** and international SDI activities and trends, and present information on those activities to IRCC members by correspondence and at the annual meeting

⇒ ***Need to clarify who takes the lead in monitoring / identifying EU SDI activities and trends of interest to HOs***

■ Standards versus EU issues

- TOR IENWG: Liaise with relevant Hydrographic Services and Standards Committee (HSSC) WGs for technical matters (e.g. standardization)

⇒ ***IENWG has the lead in referring EU issues of interest to HSSC***

■ SDI versus Standards issues

- TOR MSDIWG:
 - Promote the use of IHO standards (...) in SDI activities
 - Identify and recommend possible solutions to any significant technical issues related to interoperability between maritime and land based inputs to SDI

⇒ ***MSDIWG has the lead in referring SDI issues of interest to HSSC***



Discussion

■ Current EU/EC and SDI-related issues raised by MSDIWG

• INSPIRE

- IHO/IHB registered as a Spatial Data Interest Communities (SDIC)
- Some (?) HOs registered as Legally Mandated Organisations (LMOs)
 - Invite all EU/HOs to register as LMOs?
- **Consider establishing formal relations with ...**
 - a) INSPIRE Coordination Team (ICT)?
 - DG Environment
 - DG Joint Research Center (JRC): the Commission's in-house science service
 - Institute for Environment and Sustainability (JRC-IES) - Ispra, Italy
 - Institute for Energy and Transport (JRC-IET) - Petten, Netherlands, and Ispra, Italy
 - European Environmental Agency (EEA)
 - b) INSPIRE Maintenance and Implementation Group (MIG)
 - DG Environment
 - Thematic Clusters
 - Bathymetry: Elevation, Orthoimagery, Reference Systems and Geographical Grids Cluster / Elevation Sub-Group
 - Oceanography: Marine and Atmosphere Cluster
- **Upcoming events**
 - 25-30 Sep-2016 INSPIRE Conference 2016 (Barcelona, Spain)

• European Location Framework

- See <http://www.elfproject.eu/>
- Harmonised cross-border platform for National Mapping, Cadastre and Land Registry Authorities
- **Consider inviting Denmark and/or Norway to check the scope of the project**
(limited to land SDI?)



Discussion

- Other potential EU/EC and SDI-related issues
 - ***Consider the need of establishing relations with ...***
 - UN/GGIM Europe
 - GEO European High Level Working Group / regional GEOSS hub for Europe
 - (Copernicus)
 - (EUROGOOS)
 - ...
 - ***... and how ...***
 - through Member States
 - through IHO organ(s) (IHB, IENWG, MSDIWG, etc.)
 - through EMODnet
 - ...

