



International Hydrographic Organization
Organisation Hydrographique Internationale

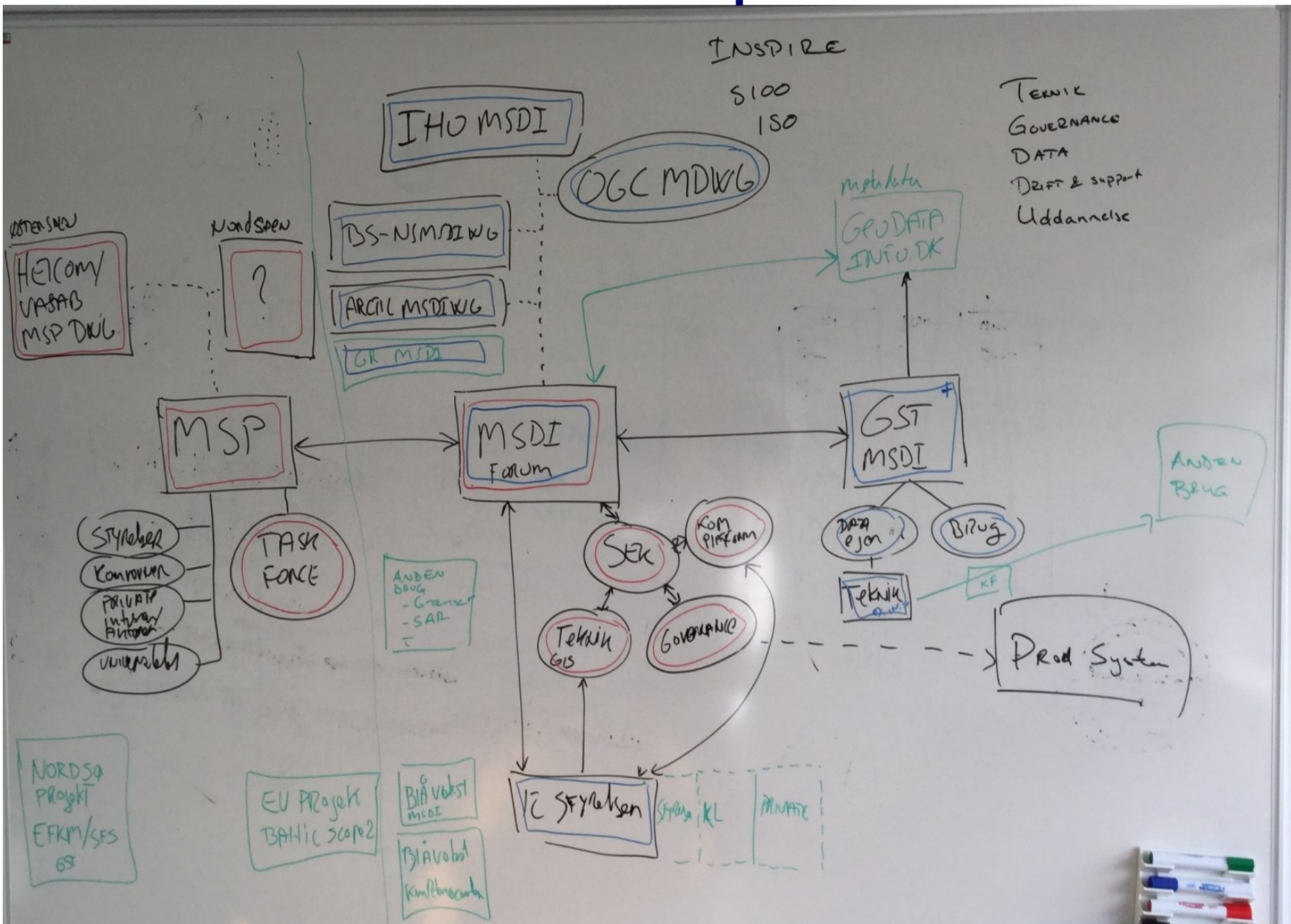


**BALTIC SEA
HYDROGRAPHIC
COMMISSION**



**NORTH SEA
HYDROGRAPHIC
COMMISSION**

The Danish MSDI landscape



The Danish MSDI landscape

IHO MSDIWG

INSPIRE
S-100

International

BS-NSMSDIWG

OGC MDWG
UN-GGIM

Regional

HELCOM/
VASAB

Arctic MSDIWG

Danish
MSP

National Danish MSDI

National

DGA data to the
Danish MSDI

NORDSØ
Projekt
EFKM/SES
GS

Projekt
scope 2

Biavokst
MSDI
Biavokst
Kvalitetskontrol

VZ Sfyrelsen

Projects



Marine Spatial Data Infrastructure (MSDI) International

International



Marine Geospatial Working Group
August 2017

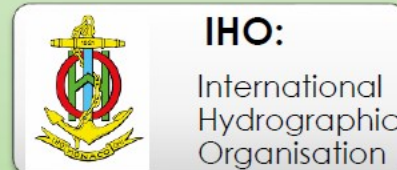
Three Advisory/Contributing Bodies



Geoinformation Standards



Marine Domain Working Group



MSDI Working group + specific Maritime Geoinformation standards





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Upcoming Public Events/Événements publics à venir

» Upcoming Events/Événements à venir

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ABLOS8 Conference - Registration is open /...

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3 NEW IHO MEMBER STATES / 3

The IHO - MARINE SPATIAL DATA INFRASTRUCTURE value chain



BS-NSMSDIWG work shop December 6 - 8, Rostock, Germany

HELCOM, VASAB and DMA participated the meeting on December 7



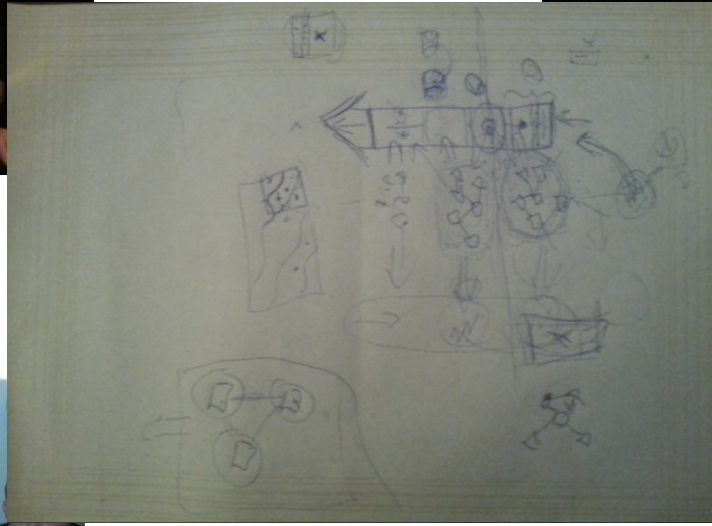
Example - SHOM France

INSPIRE theme			Data set types	INSPIRE conformity			
				discover* (metadata)	view*	download*	transform service
Geographical Names	GN	I.3	Toponymes	no	no	no	no
Administrative Units	AU	I.4	Maritime limits - jurisdiction (6M, 12M, 200M...)	WCS [1]	WMS [2]	WFS [3]	no
Administrative Units	AU	I.4	Territorial sea baseline	no	no	no	no
Administrative Units	AU	I.4	Internal waters, territorial sea, EEZ	WCS [1]	WMS [2]	WFS [3]	no
Transport Network	TN	I.7	TSS, maritime routes and fairways	no	no	no	no
Elevation	EL	II.1	Bathymetry (DTM, surveys, ...)	WCS [1]	WMS [2]	WFS [3]	planned
Elevation	EL	II.1	Maritime altimetric references (tide)	WCS [1]	WMS [2]	WFS [3]	no
Geology	GE	II.4	Sedimentology	WCS [1]	WMS [2]	WFS [3]	no
Utility and Government Services	US	III.6	Dumping areas, incineration areas, dredged areas	no	no	no	no
Utility and Government Services	US	III.6	Submarine cables and pipelines	WCS [1]	WMS [2]	WFS [3]	no
Utility and Government Services	US	III.6	Surveillance and rescue stations	WCS [1]	WMS [2]	WFS [3]	no
Production and Industrial Facilities	PF	III.8	Offshore production areas	no	no	no	no
Agricultural and Aquaculture Facilities	AF	III.9	Aquaculture farms, fish facilities	no	no	no	no
Management/Restriction/Regulation Zones and Reporting Units	AM	III.11	Maritime safety areas, regional and international monitoring or fishing areas	no	no	no	no
Management/Restriction/Regulation Zones and Reporting Units	AM	III.11	Restricted areas (military, mooring, danger, transshipping, sea landing ...)	no	no	no	no
Sea Regions	SR	III.16	Coastline, shoreline	WCS [1]	WMS [2]	WFS [3]	no
Utility and Government Services (or Transport Network?)	US	III.6	Navigational aids	no	no	no	no
?			Wrecks and obstructions	WCS [1]	WMS [2]	WFS [3]	no
Oceanographic Geographical Features	OF	III.15	Currents (2D or 3D)	WCS [1]	WMS [2]	WFS [3]	no
Oceanographic Geographical Features	OF	III.15	Hydrological data (salinity, T° profiles, ...)	WCS [1]	WMS [2]	WFS [3]	no
Oceanographic Geographical Features	OF	III.15	Sea transparency	no	no	no	no
* Please precise on which web portal here :			(1) http://services.data.shom.fr/CSW/ISOAP				
Example for France (SHOM)			(2) http://services.data.shom.fr/INSPIRE/wms/r				
			(3) http://services.data.shom.fr/INSPIRE/wfs				



What are the consequences of a Data centric approach in the HO =>


- Change management and Culture?
- Change in the Value chain and Production?



Establishing a conceptual model of a production system from data centric approach

MSDI and MSP – seen from a regional perspective.

HELCOM/VASAB data expert group



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Agriculture | Fisheries | Industrial releases | Marine protected areas | **Maritime spatial planning** | Monitoring and assessment | Response to spills | Species and habitats | Shipping | Waste water & litter

- HELCOM-VASAB Maritime Spatial Planning Working Group
- Horizontal Action Spatial Planning
- Country fact sheets
- MSP Roadmap
- MSP Principles
- MSP Data
- MSP and fisheries
- Plan Bothnia
- Other MSP initiatives
- Publications

Home / Action areas / Maritime spatial planning

MARITIME SPATIAL PLANNING



Photo: EWEA, European Wind Energy Association 1982-2007

CO-LEADER WITH VASAB



HIGHLIGHTS

HELCOM statement in 2014 VASAB Ministerial Conference, 26 September 2014

The key to governing the fragile Baltic Sea - Maritime Spatial Planning in the Baltic Sea Region and the way forward, by Jacek Zaucha

angemeldet als: Gast [Impressum](#) | [Kontakt](#) 

GeoSeaPortal

Das Geodatenportal des BSH

Startseite | Suche | Themen | Karte | GDI-BSH | Neuigkeiten | Hilfe | Anmelden

Geodatenuche

[erweiterte Suche](#)


Themeneinstieg

weitere Themen

- Hintergrundkarte
- Navigation
- Raumplanung
- Bathymetrie
- Schifffahrt
- Modellvorhersagen
- Fernerkundung
- Ozeanographie
- Umweltvermessung
- Geologie
- Biologie
- Meeressumwelt

Neuigkeiten

- 05.12.2014 Dienste zum Thema Schiffsverkehr [mehr](#)
- 03.12.2014 BSH WMS Seevermessung Meeresboden DGM [mehr](#)
- 08.07.2014 WMS Bundesfachplan Offshore (BFO) [mehr](#)

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GeoSeaPortal

Das Geodatenportal des BSH

Startseite | Suche | Themen | **Karte** | GDI-BSH | Neuigkeiten | Hilfe | Anmelden

Karteninhalt | Legende

Navigation | Messen | Zeichnen | Extras

Werkzeug Verschieben

Kartenausschnitt

Bitte wählen Sie einen Kartenausschnitt

Karte aktualisieren

Automatisches Aktualisieren

- Bathymetrie
- BSH WMS Seevermessung Meeresboden DGM
- ASCI_Gewinnd_URL
- dt_Nordsee_Vermessungpgh
- dt_Nordsee_DGM
- dt_Ostsee_Vermessungsjahr
- dt_Ostsee_DGM

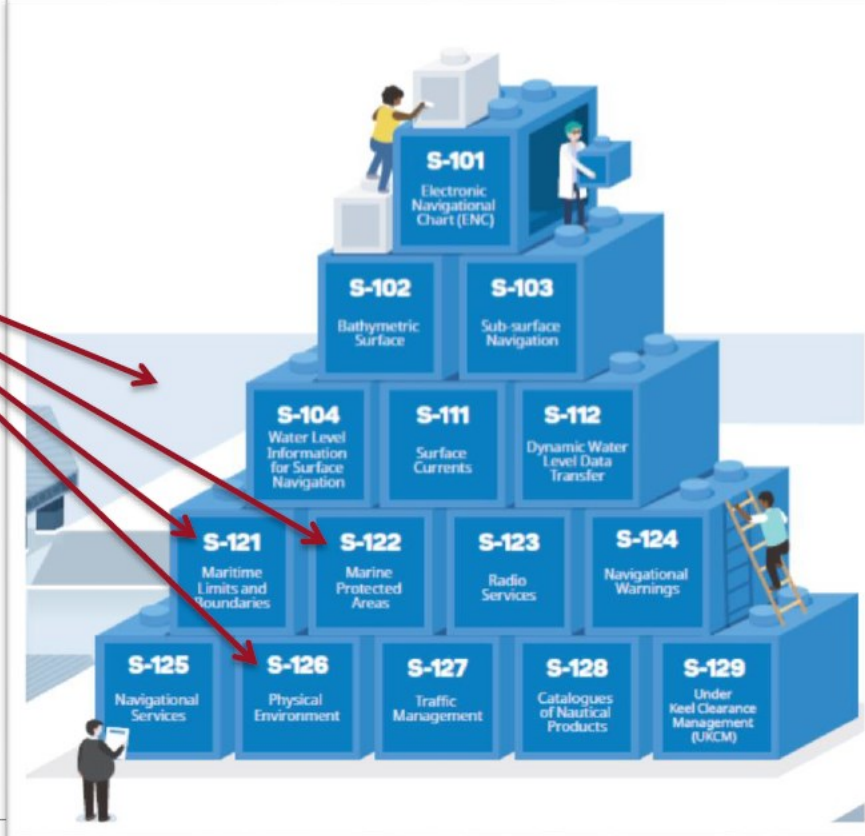
Hintergrundkarte

- Landmasse und Bathymetrie
- Landmasse

© con terra 1:50.000 WGS84 in geografischen Koordinaten Breite 9.684 KM - Höhe 6.271 KM

STANDARDIZATION IN HYDROGRAPHY : MUCH MORE THAN JUST NAUTICAL CHARTS!

...MUCH MORE!!!



Graphic Source: International Hydrographic Organization (IHO)

&

Korea Hydrographic & Oceanographic Agency (KHOA), Republic of Korea



S-100 WORLD

