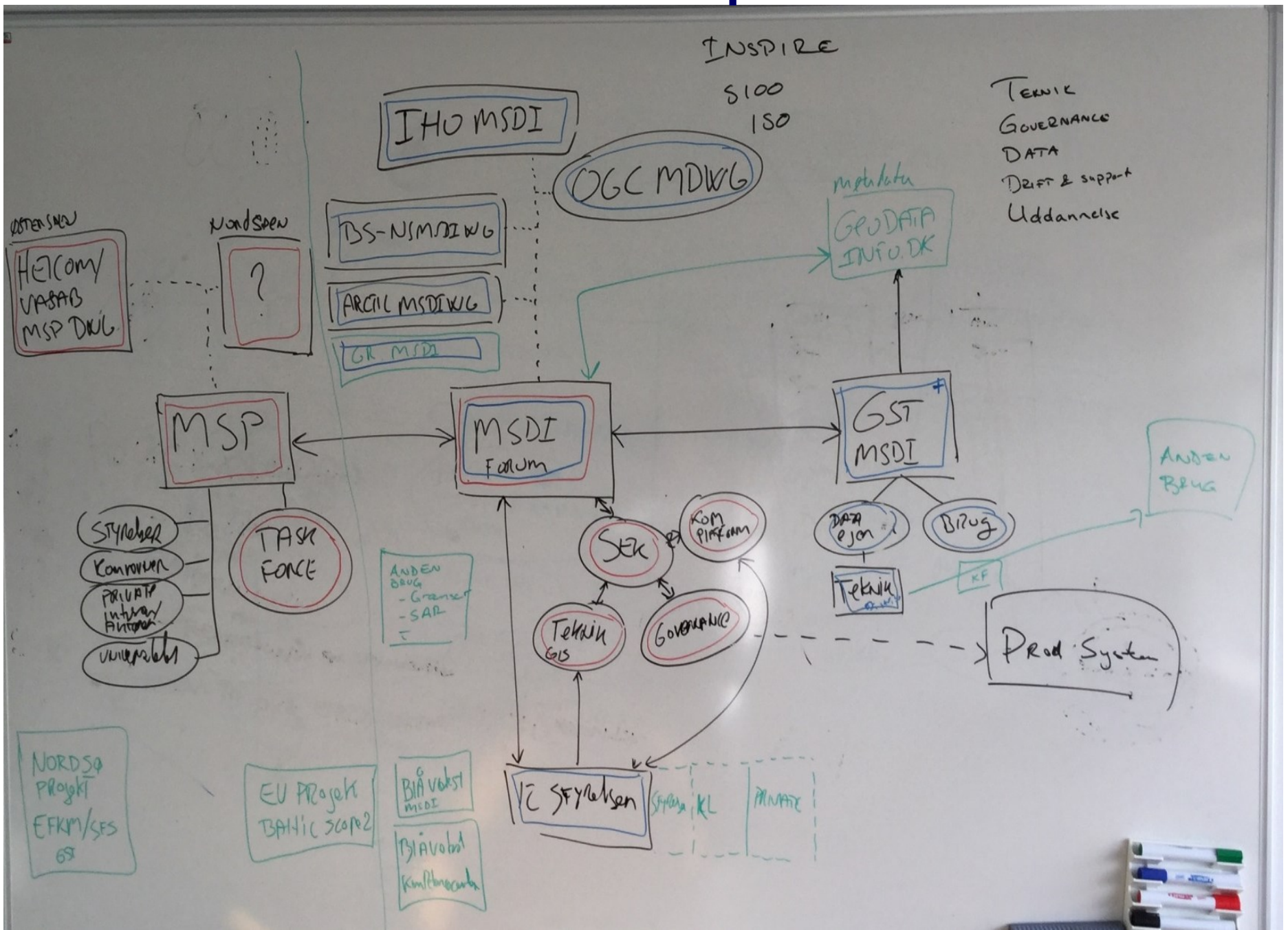
International Hydrographic Organization
Organisation Hydrographique Internationale

BALTIC SEA HYDROGRAPHIC COMMISSION

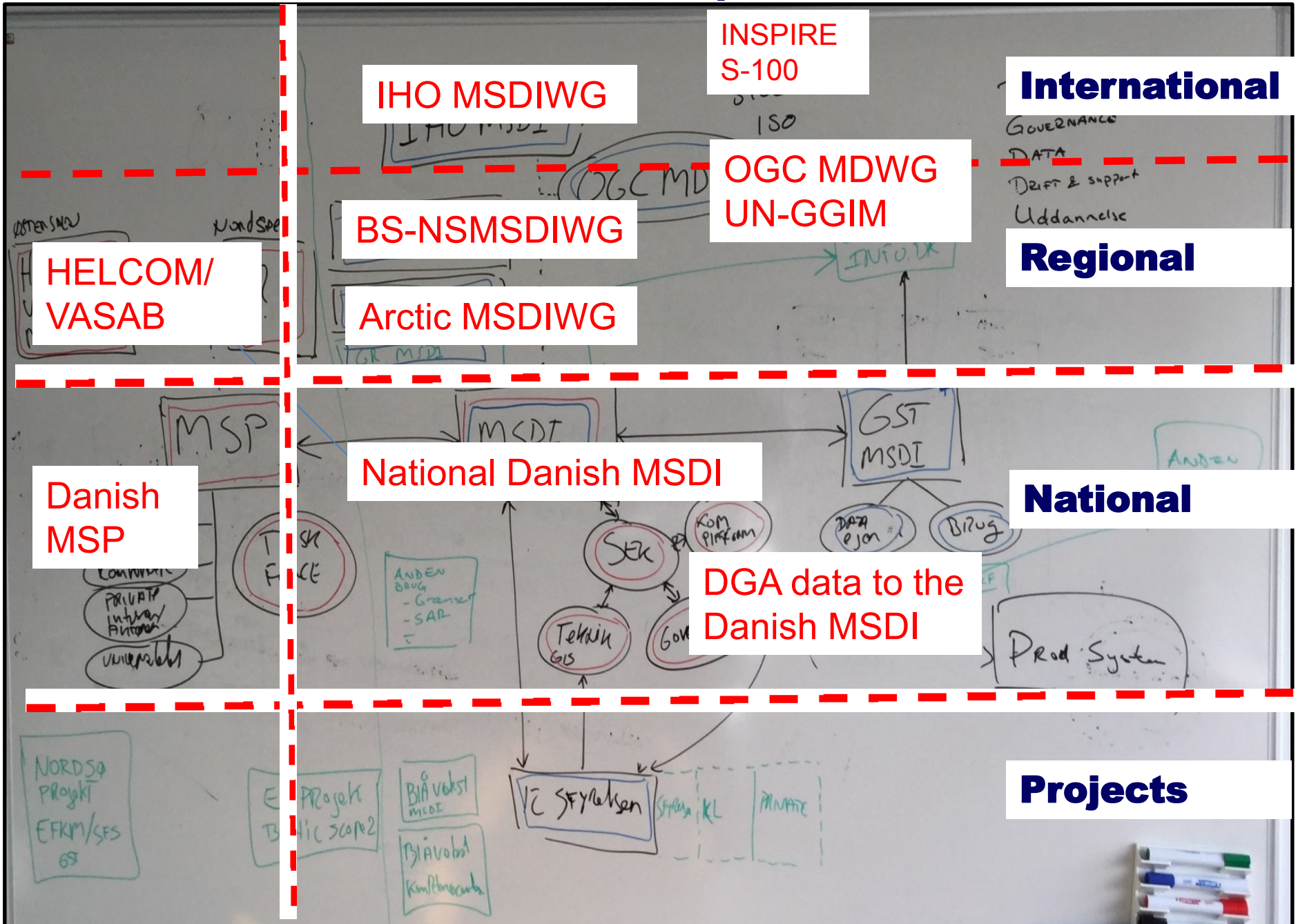
NS HC

NORTH SEA HYDROGRAPHIC COMMISSION

The Danish MSDI landscape



The Danish MSDI landscape



Marine Spatial Data Infrastructure (MSDI) International

International

Marine Geospatial Working Group
August 2017

Three Advisory/Contributing Bodies

International Organization for Standardization

Geoinformation Standards

Marine Domain Working Group

IHO:
International Hydrographic Organisation

MSDI Working group + specific Maritime Geoinformation standards

Danish Geodata Agency

The IHO - MARINE SPATIAL DATA INFRASTRUCTURE value chain

IHO → IRCC ⇄ MSDIWG

RHC (BSHC, NSHC, ARHC) ⇄ BS-NSMSDIWG

Arctic MSDIWG

Danish Geodata Agency

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				
Exemple for France (SHOM)			(2) http://services.data.shom.fr/INSPIRE/wms/r				
			(3) http://services.data.shom.fr/INSPIRE/wfs				

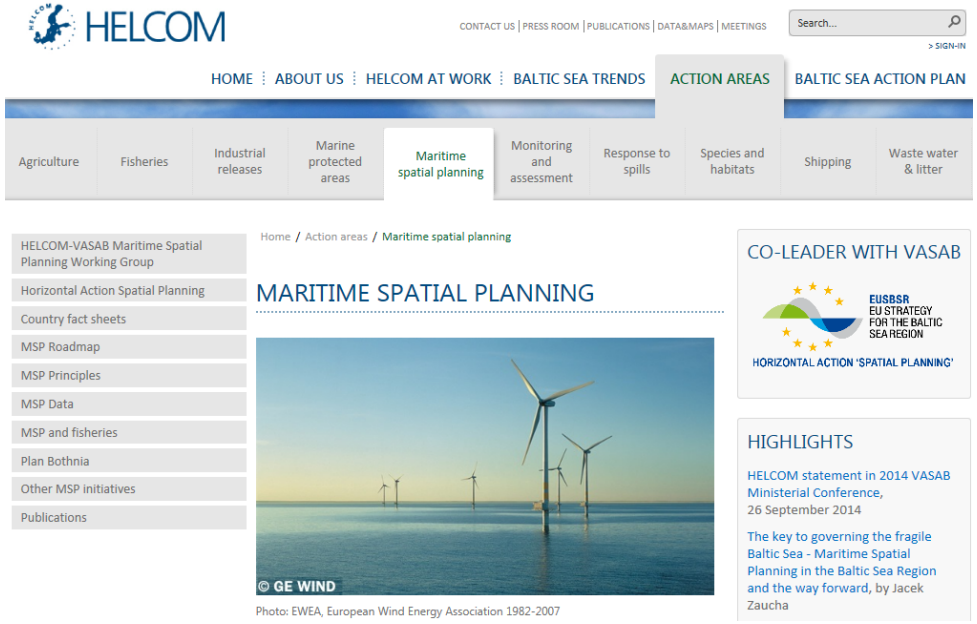
What are the consequences of a Data centric approach in the HO =>

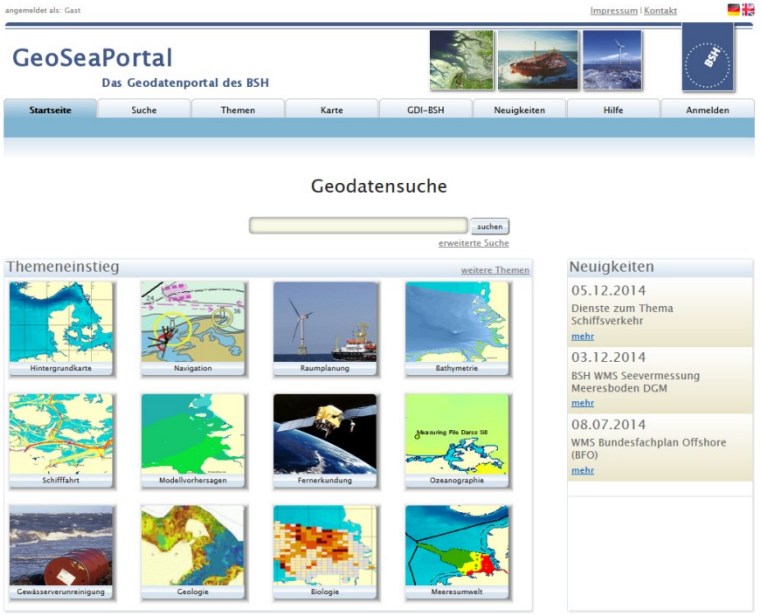
- Change management and Culture?
- Change in the Value chain and Production?

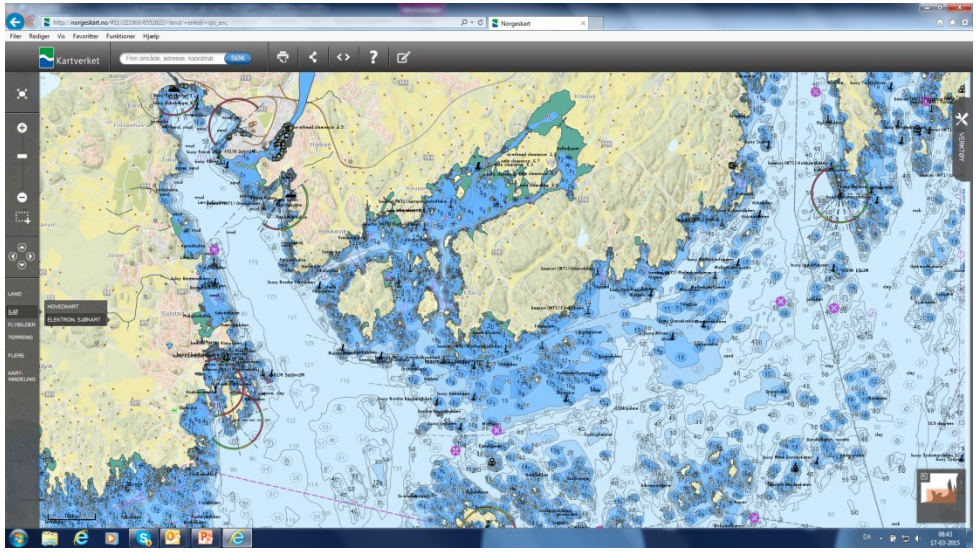
Establishing a conceptual model of a production system from data centric approach

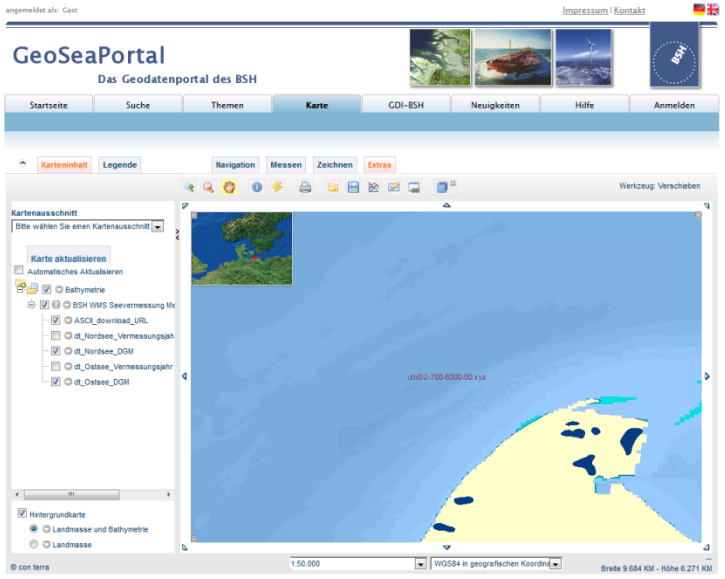
MSDI and MSP – seen from a regional perspective.

HELCOM/VASAB data expert group









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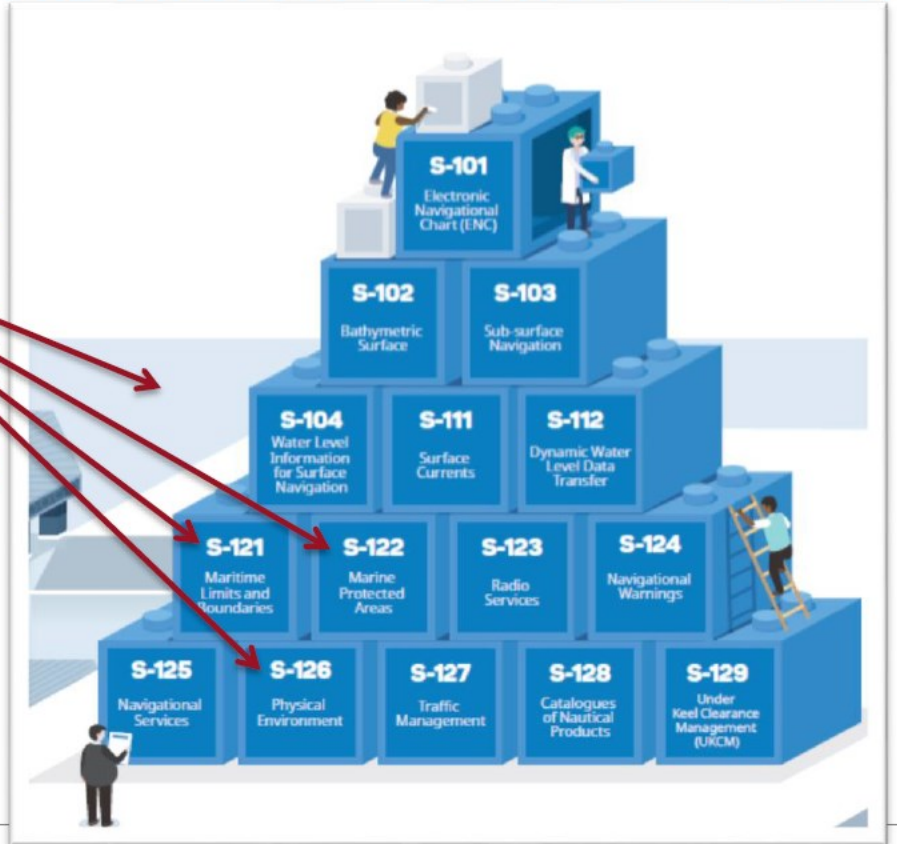
STANDARDIZATION IN HYDROGRAPHY : MUCH MORE THAN JUST NAUTICAL CHARTS!

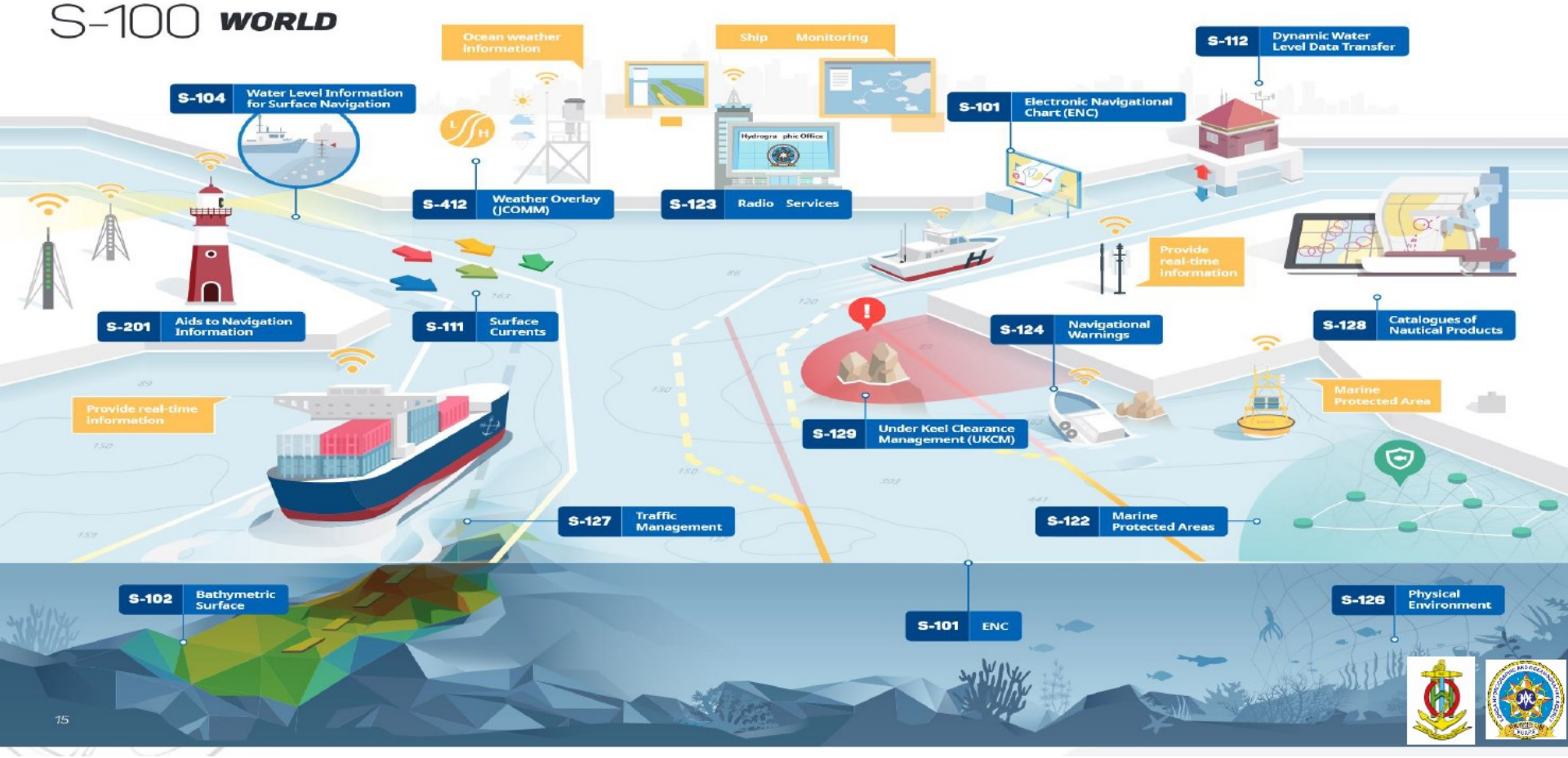
...MUCH MORE!!!



Graphic Source: International Hydrographic Organization (IHO)

&

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



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