

MEDITERRANEAN AND BLACK SEA HYDROGRAPHIC COMMISSION

MSDI Report

MBSHC21-06.6 MSDI AMBASSADOR

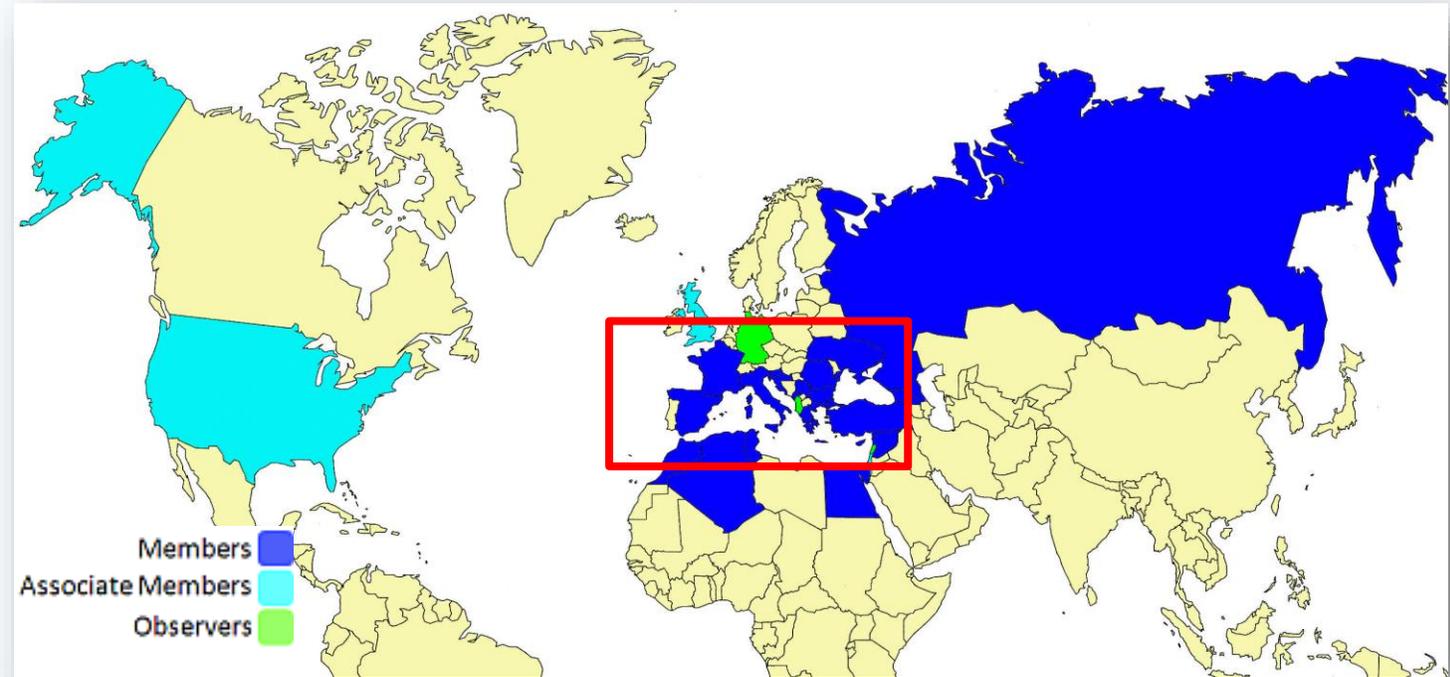


Introduction

MSDI Ambassador of MBSHC (decision MBSHC 20/01) → Italy

REGIONAL PRE-CONDITION:

- Countries peculiarities
- Geography of the basin



RHC MSDI Ambassadors

- Promote MSDI and to help MSs to prepare the national reports with respect to the status of MSDI
- MSDI as a RHC agenda item (done!)
- National MSDI report prepared by each Member State for submission to every RHC
- The report should incorporate the status of MSDI, plans for involvement in MSDI and challenges facing the HO

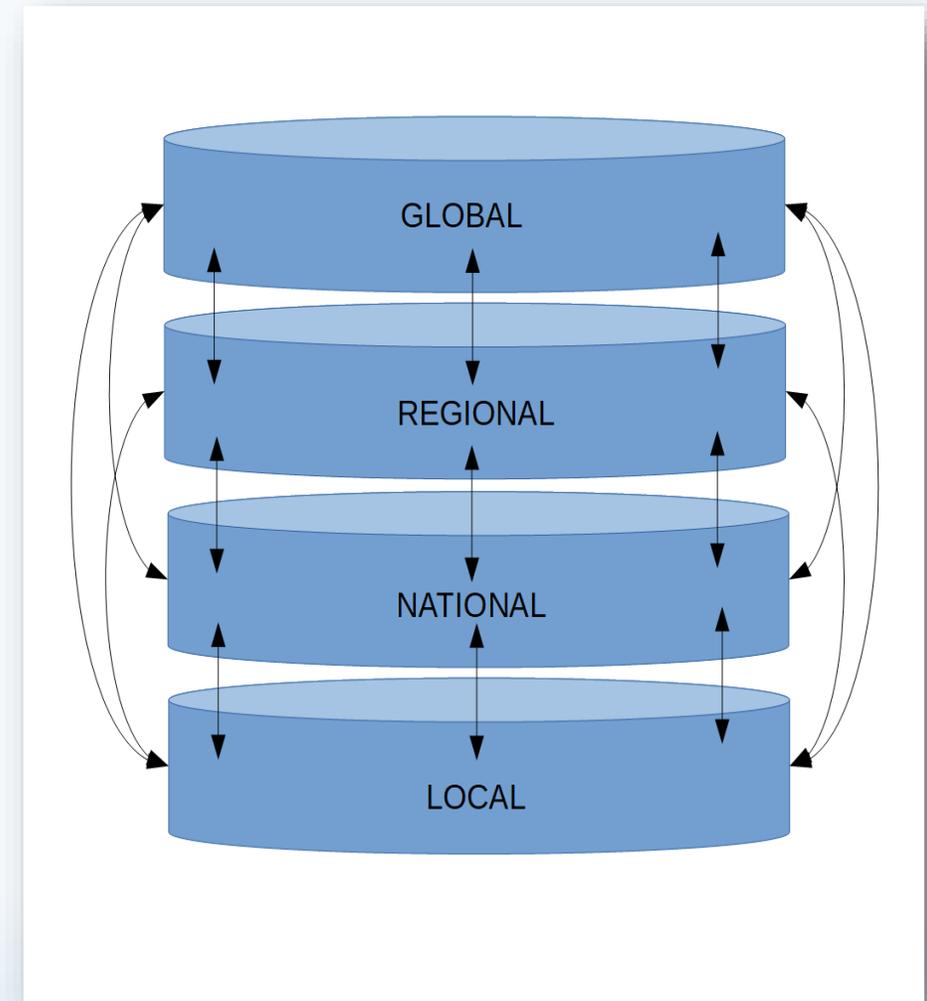
See IRCC 11 MSDI report



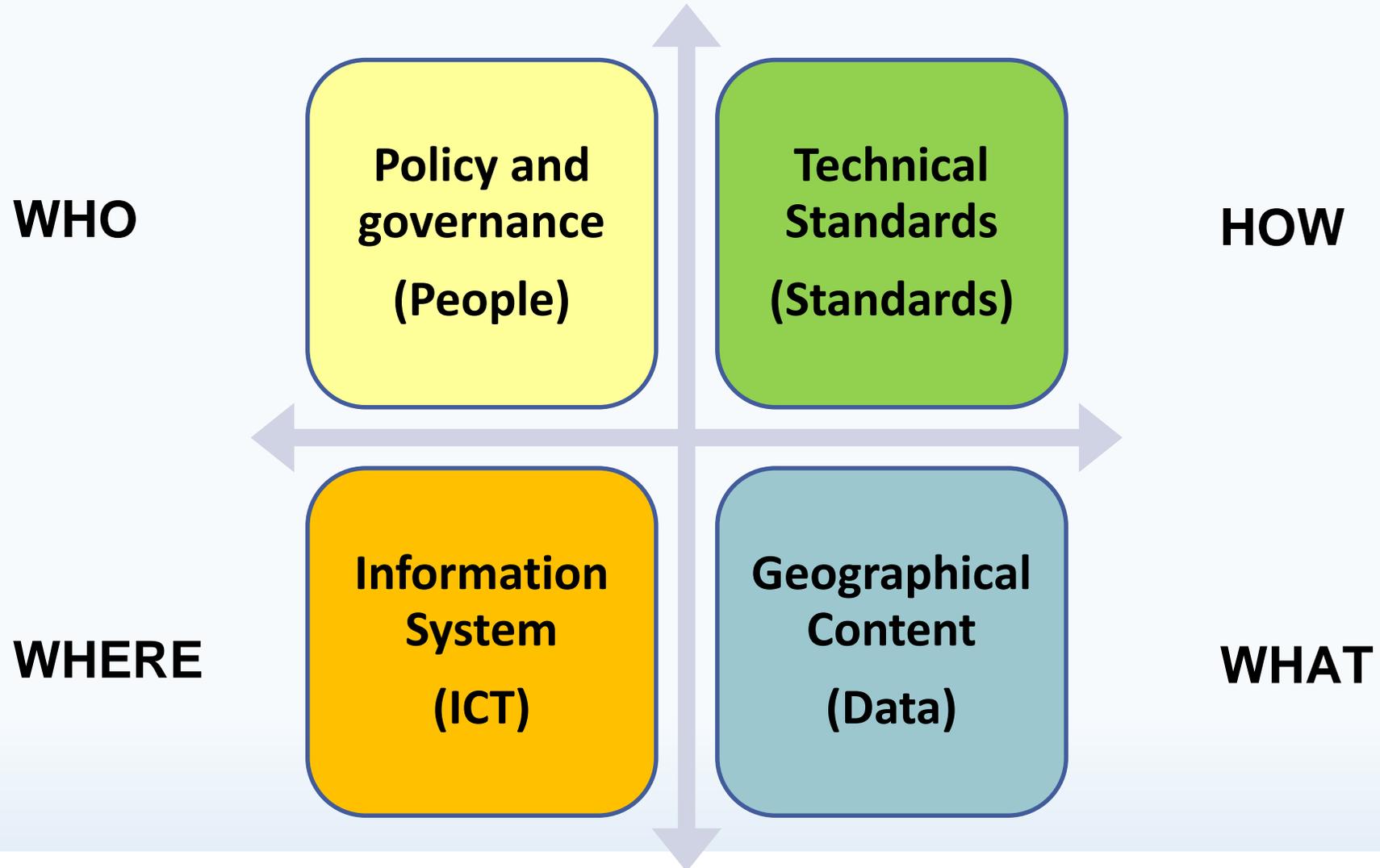
References

C-17 v.2.0

- Spatial Data Infrastructures «The Marine Dimension» Guidance for Hydrographic offices (IHO CL 16/2018)
- **MSDIWG9**
 - Connection between national MSDI to global MSDI through Regional HCs



MSDI pillars



MSDI activities and achievements

Communication and dissemination



MSDI National Report

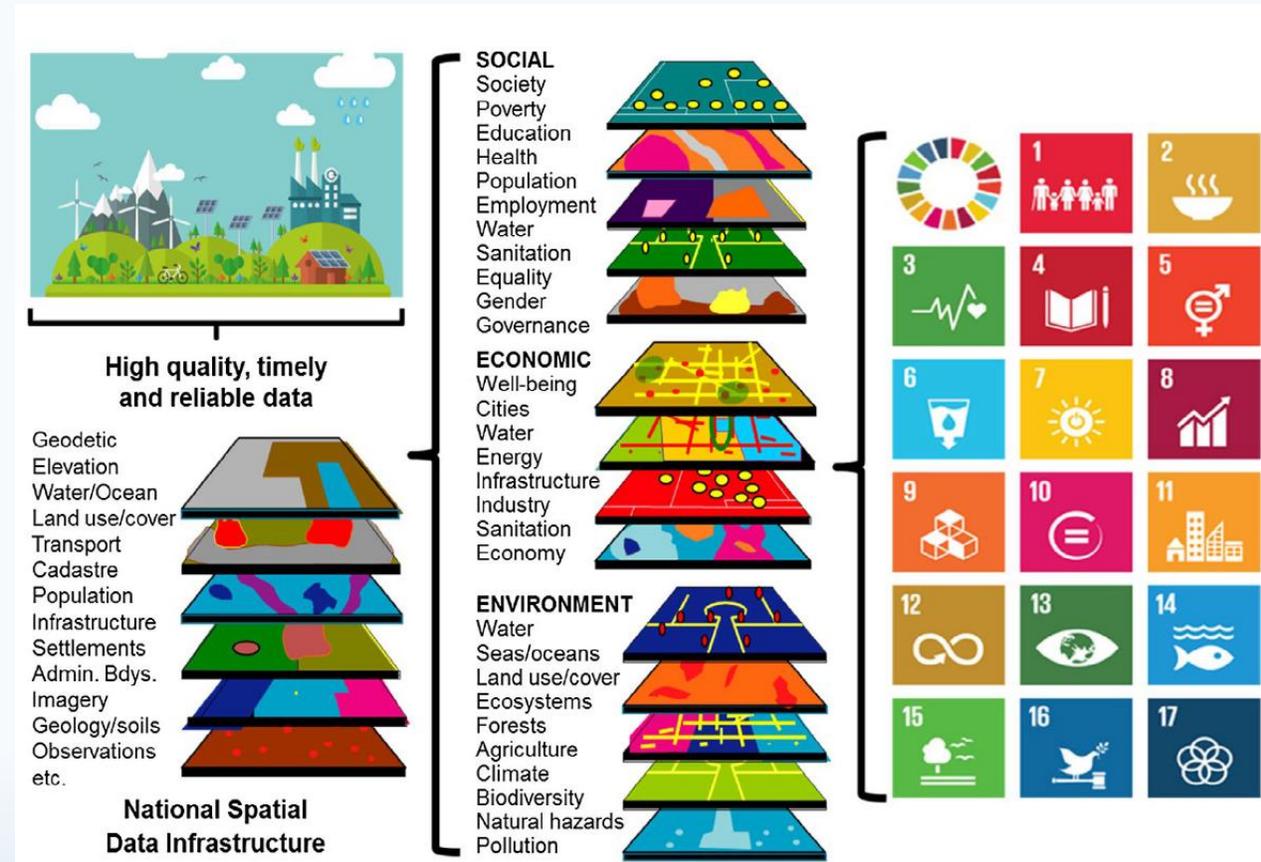
It is recommended that the National Reports include the topics from **C-17, item 2.1** on what constitutes a MSDI:

- Policy and Governance
- People & Organizations
- Enablers (the framework for data acquisition, management, updating and dissemination)
 - o Standards
 - o Technology
 - o Metadata
- IHO S-100 Universal Hydrographic Data Model
- Content
- Education and Learning



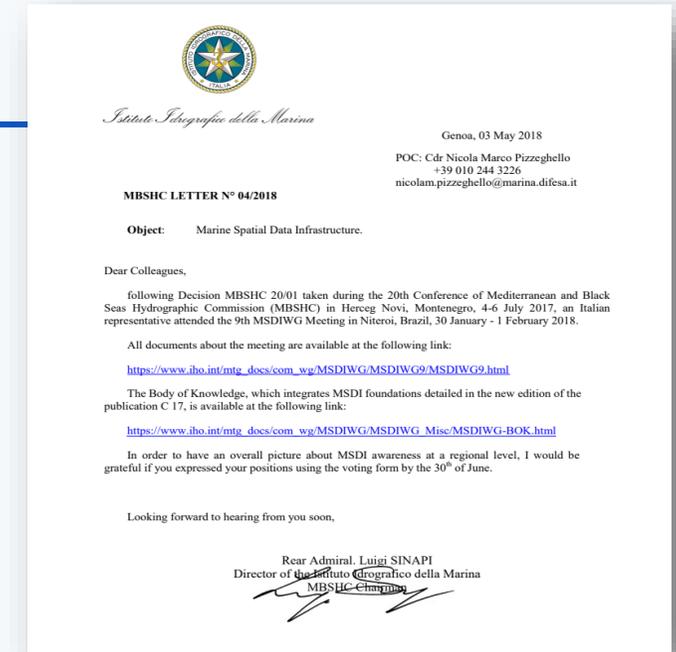
Analysis

Make the Ambassador aware of National MSDI Initiatives



Regional Level Activities

- MBSHC CL 4/2018: questionnaire sent to MSs in order to **study/develop the link between different geographical levels of MSDI** (local, national, regional and global)
- MBSHC CL 09/2018: feedback to questionnaire



Annex to MBSHC CL 04/2018 03/05/2018

**Status Update of Marine Spatial Data Infrastructure (MSDI)
Implementations
related to a Marine Spatial Architecture**

(to be returned to the E-mail: iim.corsi@marina.difesa.it by 30th June 2018)

The intent of the study is to determine the relative level of advancement of various countries of the MBSHC in the development of their MSDI. It also explores what is offered and what can be offered within a given resource framework. This means that the questions are intended to scope the scale of the MSDI resources required in their development.



Questionnaire outcomes

- Application of MSDI to the Maritime domain
- Beyond Safety of Navigation
- Standards operationalization/dissemination (OGC, IHO, EU)
- Different MSDI initiatives
 - (eg. Internal to HOs, Regional SDI, INSPIRE, EMODNET, RENC MSDI)
- Role of authoritative data, open data, free data
- Cost of the infrastructure and the connected services
- Copyright, licencing, responsibility (legal framework)



UN GGIM

- MBSHC MSDI Ambassador provided a presentation to **UN GGIM WG meeting on Marine Geospatial Information** (March 2019)



MSDI training material

Phase 1. MSDI orientation

- For students who are marine-focused, but have very little experience of MSDI concepts or practice.

Phase 2. Fundamentals of a MSDI

- For students who are marine geospatial professionals but who have very little experience of MSDI (one-day course)

In preparation by MSDI WG

This slide features a light blue background. In the top left corner, there is a logo consisting of a crown above a circle of dots. In the top right corner, there is a small image of an offshore oil rig with the text 'Data is the new oil' and 'Orientation' below it. The main content area contains a central diagram with four colored boxes: 'Policy and Governance' (red), 'Technical Standards' (green), 'Technology' (blue), and 'Data and Metadata' (orange), all connected to a central 'MSDI' label. To the right of this diagram is a large red box with the text 'Marine Spatial Data Infrastructures' in white. Below this red box, the word 'Orientation' is written in a large, black, sans-serif font. At the bottom left is the IHO logo, and at the bottom right is the text 'Produced by IHO TECHNOLOGIES'.

This slide is identical in layout to the one above, but the word 'Orientation' is replaced by 'Fundamentals' in a large, black, sans-serif font. The rest of the slide content, including the diagram, red box, and logos, remains the same.



The MSI e-Learning course

Two MSDI courses

- Orientation eLearning course
- Fundamentals eLearning course

Marine Spatial Data Infrastructures

Concepts, definitions and examples

In preparation by MSDI WG

Marine geospatial data content

What is Data???

Vector Data: "Things"

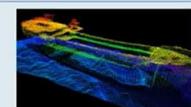


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Raster Data and Imagery



Bathymetry: Point Clouds and Surveys



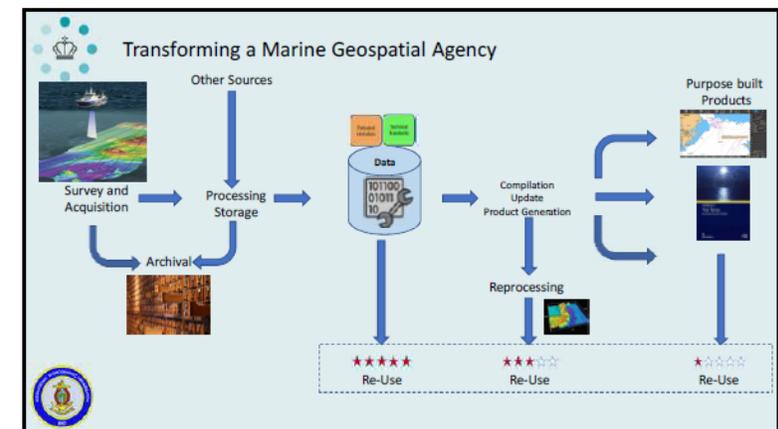
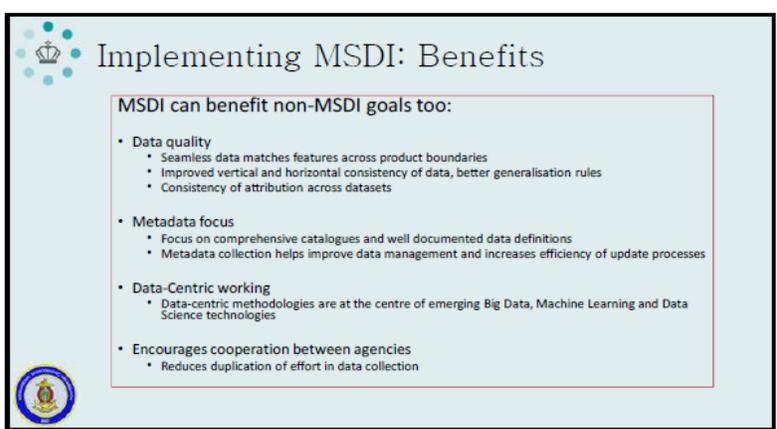
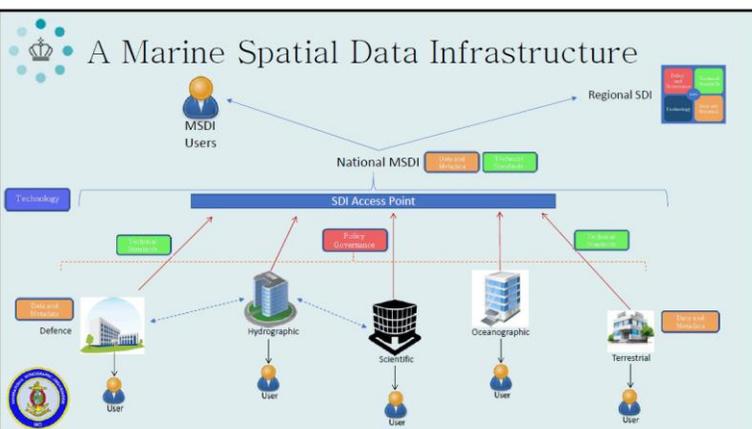
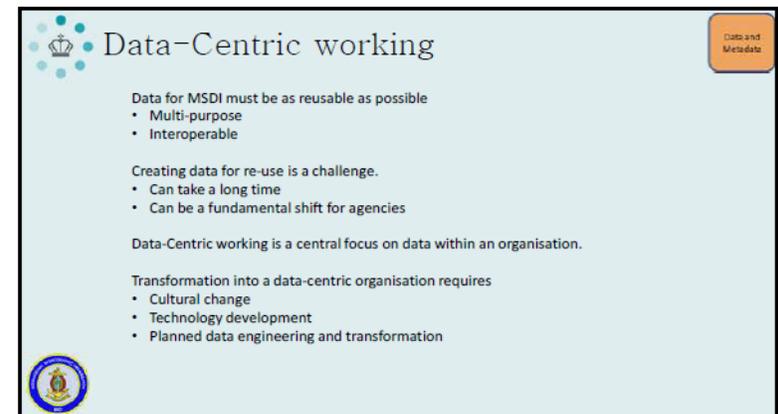
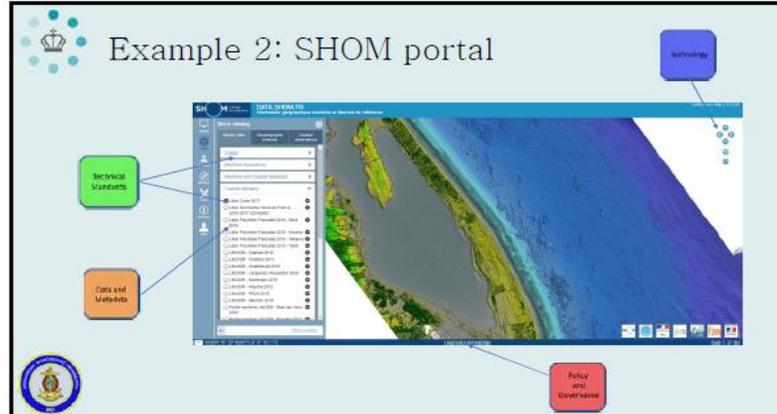
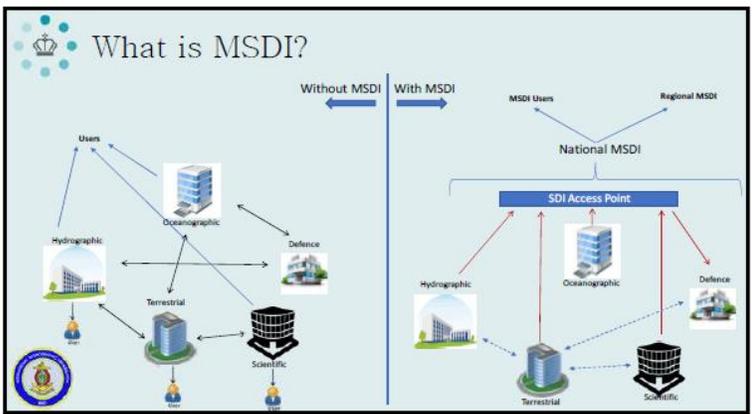
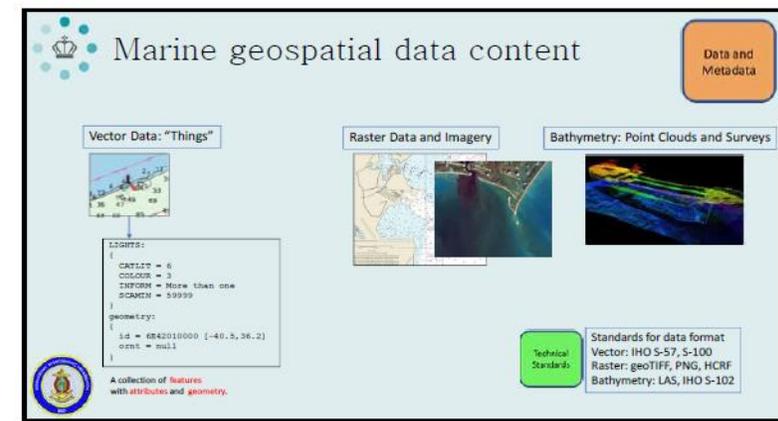
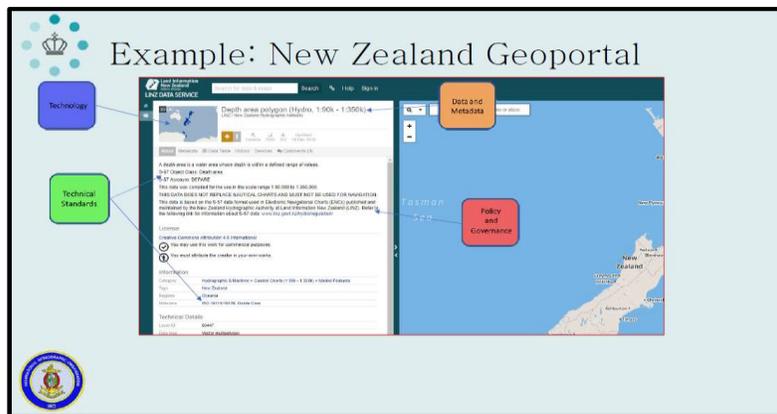
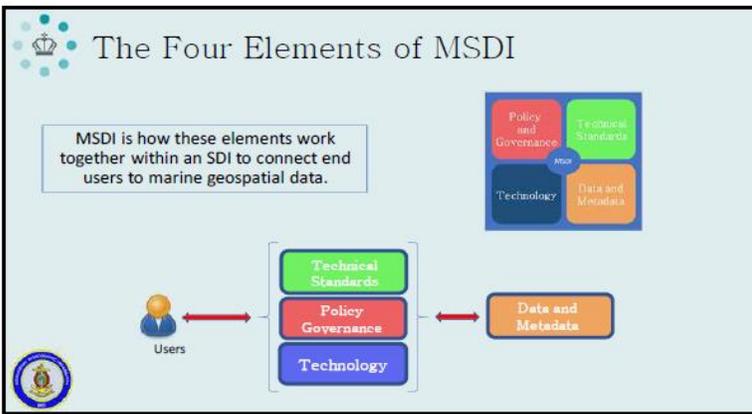
Good for MSDI?:

- Coastline
- Tidal Predictions
- Oceanographic
- Navigation Aids
- Obstructions and Wrecks
- Named Features
- Offshore installations

Data and Metadata



International Hydrographic Organization
Organisation Hydrographique Internationale



Action requested of MBSHC

The MBSHC is invited to:

- Encourage MSDI initiatives at National Level
- Make the Ambassador aware of National MSDI Initiatives
- Encourage training
- Note the report

