



## MSDI Open Forum

### 第二部 海洋空間データ基盤の推進に向けて

#### Introduction 趣旨説明

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ジェンス・ピーター・ハートマン(IHO-MSDI 作業部会議長)

# Traditional approach to Hydrographic data

- One primary user, the mariner
- The primary products:
  - Paper chart
  - ENC - S57 data
  - Publications
  - Updates of products
- SOLAS (ECDIS - ENC)
- IHO:
  - standardisation
  - harmonisation
  - recommendations



## SOLAS:

### Chapter V regulation 19 2.1.4

Nautical charts and nautical publications to plan and display the ship's route for the intended voyage and to plot and monitor positions throughout the voyage; an Electronic Chart Display and Information System (ECDIS) may be accepted as meeting the chart carriage requirements of this subparagraph;

### Chapter V regulation 27

Nautical charts and nautical publications, such as sailing directions, *lists of lights*, notices to mariners, *tide tables* and all other nautical publications necessary for the intended voyage, shall be adequate and up to date.

## Expectations for development within the marine/maritime field:

- Increased activity with multiple uses
- Multiple stakeholders and users with demands for the same area
- Major external impact from “new” organisations:
  - INSPIRE Directive
  - Marine Strategy
  - Marine Spatial Planning



- Increased demands for coordination and planning within the maritime area
- Increased demands for coordination of activities on land
- Increased demands for coordination with neighbouring countries



**Not doing anything will not be an option**



**MSDI**

**Geo Data of the Sea**

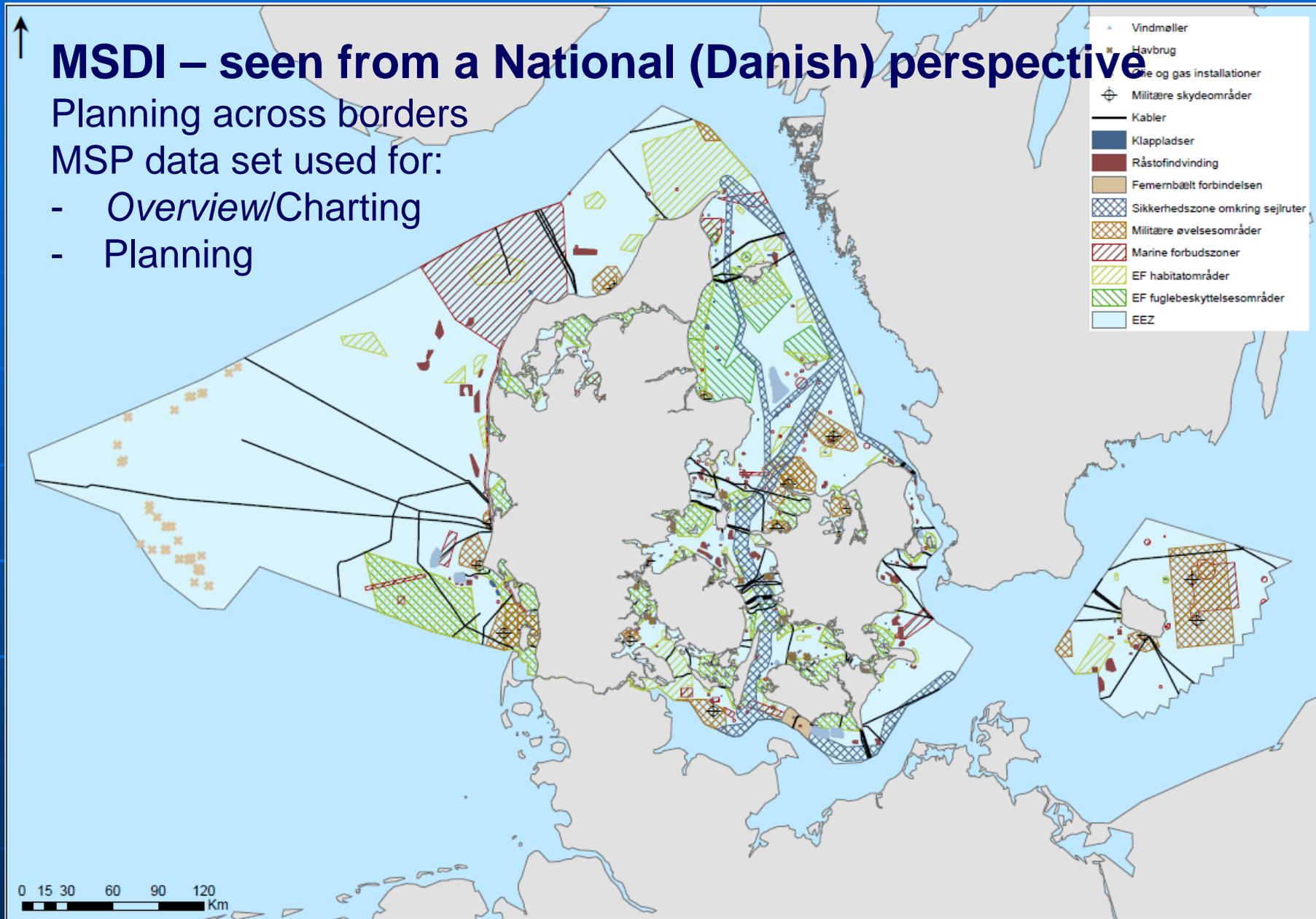


# MSDI – seen from a National (Danish) perspective

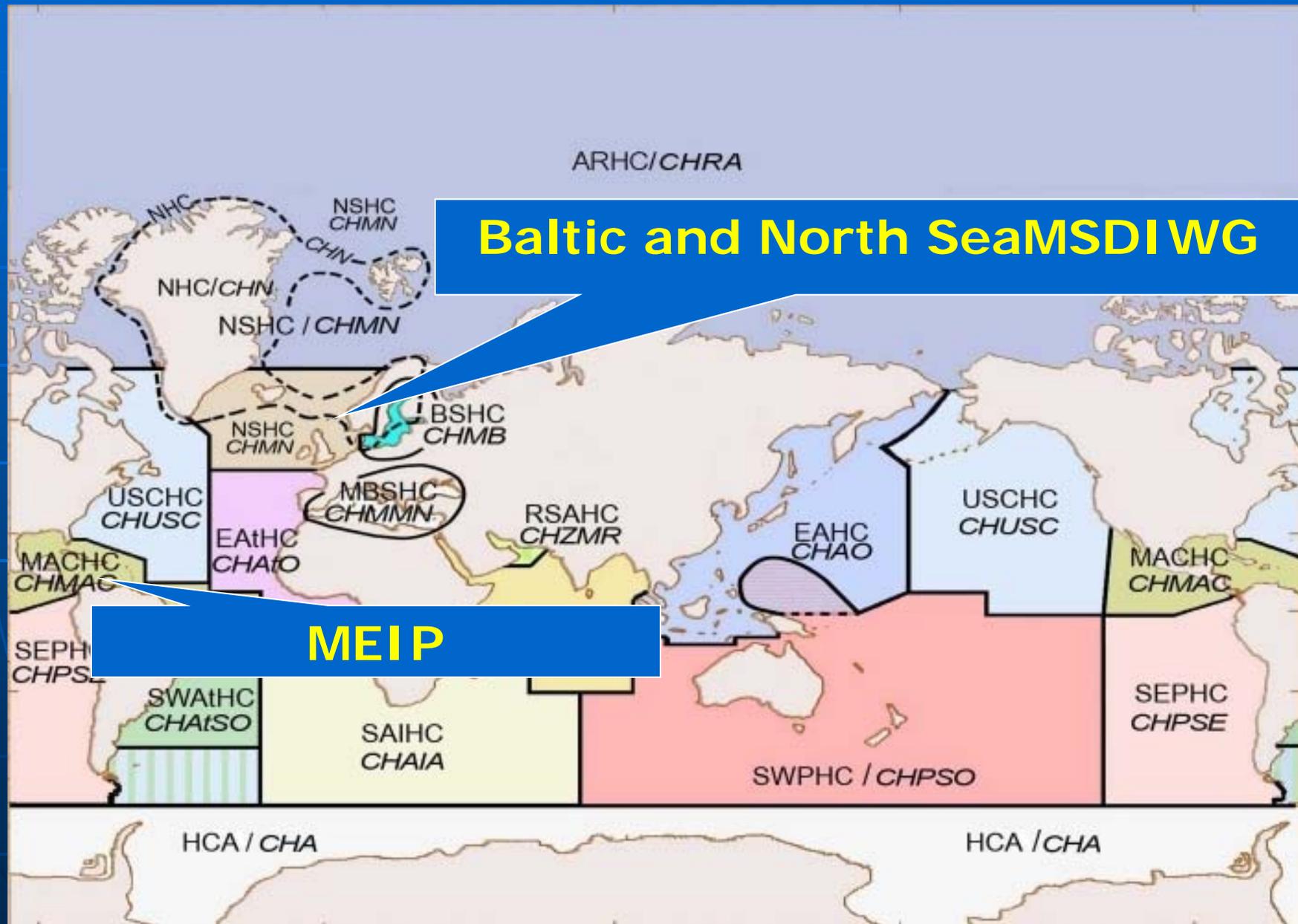
Planning across borders

MSP data set used for:

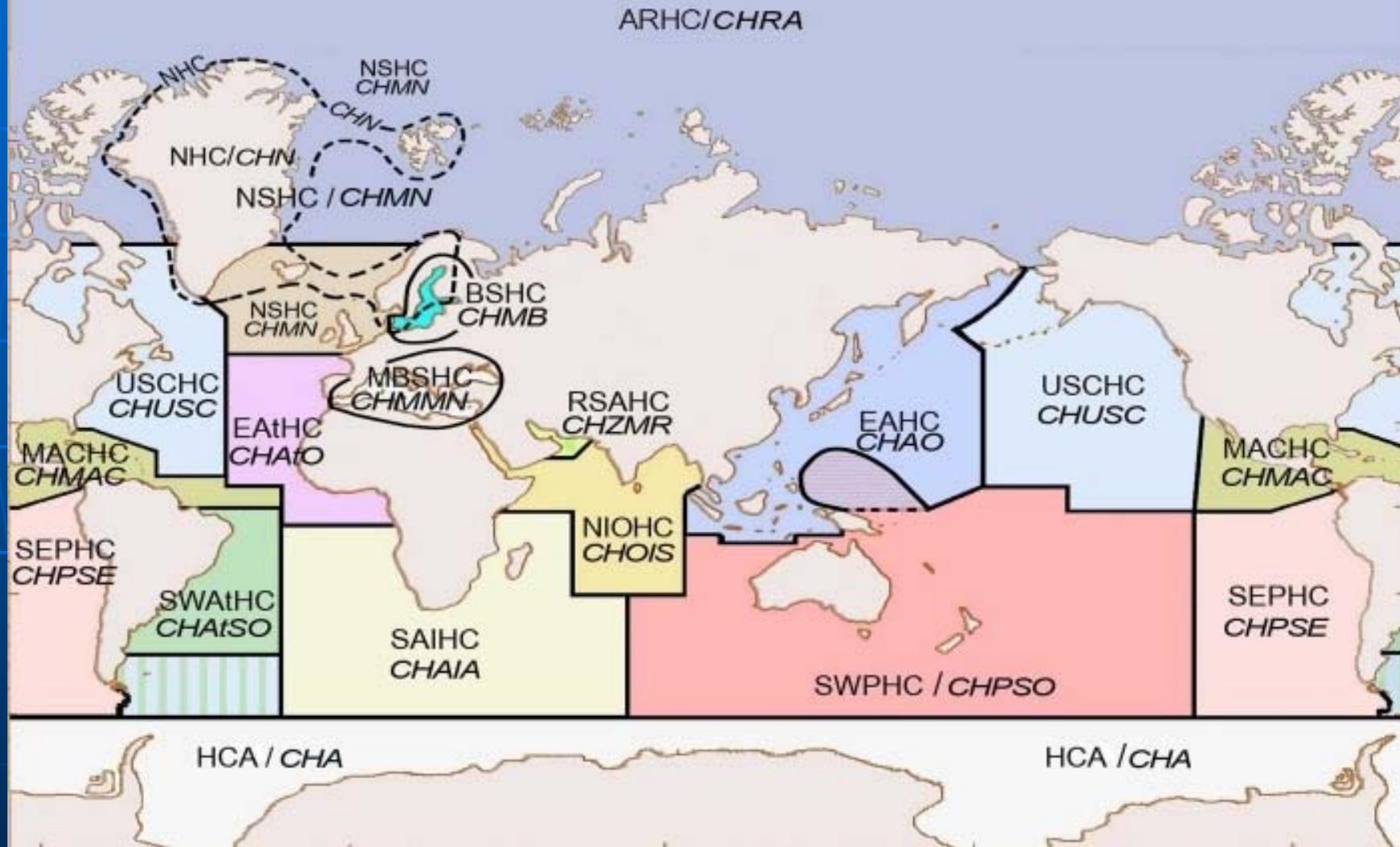
- Overview/Charting
- Planning



# Regional MSDI groups



# IHO - MARINE SPATIAL DATA INFRASTRUCTURE WORKING GROUP (MSDIWG)



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## Objectives of the IHO MSDIWG:

- Identify the Hydrographic Community inputs to National Spatial Data Infrastructures (NSDI).
- Monitor national and international SDI activities
- Promote the use of IHO standards and member state marine data in SDI activities.
- Liaise, as appropriate, with other relevant technical bodies
- Propose any Technical and/or Administrative Resolutions that may be required to reflect IHO involvement in the support of SDI.
- Identify actions and procedures that the IHO might take to contribute to the development of Spatial Data Infrastructure (SDI) and / or MSDI in support of Member States.

International Hydrographic Organization  
Organisation Hydrographique Internationale

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English

FRANÇAIS

MARINE SPATIAL DATA INFRASTRUCTURE WORKING GROUP (MSDIWG)

GRUPE DE TRAVAIL SUR L'INFRASTRUCTURE DES DONNÉES SPATIALES MARITIMES (MSDIWG)

Chair: Mr. Jens Peter HARTMAN (Denmark)  
Vice-Chair: Vacant  
Secretariat: Vacant

Président: M. Jens Peter HARTMAN (Danemark)  
Vice-Président: A pourvoir  
Secrétariat: A pourvoir

Objectives:  
Identify the Hydrographic Community inputs to National Spatial Data Infrastructures (NSDI). More details can be found in the full Terms of Reference for MSDIWG.  
This group is open to representatives of IHO Member States, Hydrographic Offices and, as expert contributors, to entities and organisations that can provide a relevant and constructive contribution to the work of the WG.  
See Terms of Reference for further information.

Objectifs:  
Identifier les contributions de la communauté hydrographique aux infrastructures des données spatiales nationales (NSDI). On peut trouver de plus amples détails dans le mandat du MSDIWG.  
La participation à ce groupe est ouverte aux représentants de Services Hydrographiques des Etats membres de l'OHI et, en qualité de collaborateurs experts, aux entités et organisations qui peuvent fournir une contribution pertinente et constructive aux travaux du GT.  
Voir le mandat pour plus de détails.

Meetings:  
The WG works primarily by correspondence and aims to meet at least once every two years, normally in conjunction with another convenient IHO forum. See current Work Plan.

Réunions:  
Le GT travaille essentiellement par correspondance et a pour objectif de se réunir au moins une fois tous les deux ans, normalement en liaison avec d'autres réunions appropriées de l'OHI. Voir le programme de travail en cours.

Members:  
The WG comprises representatives of IHO Member States, Expert Contributors and Accredited NGO Observers. Expert Contributors principally from industry participate in the WG at the invitation of the Chairman. A full list of the WG Members is maintained.

Membres:  
Le GT est composé de représentants des Etats membres de l'OHI, d'experts collaborateurs et d'observateurs d'organisations internationales non gouvernementales accréditées. Les experts collaborateurs, principalement du secteur industriel, participent aux travaux à l'invitation du Président. Une liste complète des membres du GT est tenue à jour.

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

SPATIAL DATA INFRASTRUCTURES  
"THE MARINE DIMENSION"

Guidance for Hydrographic Offices

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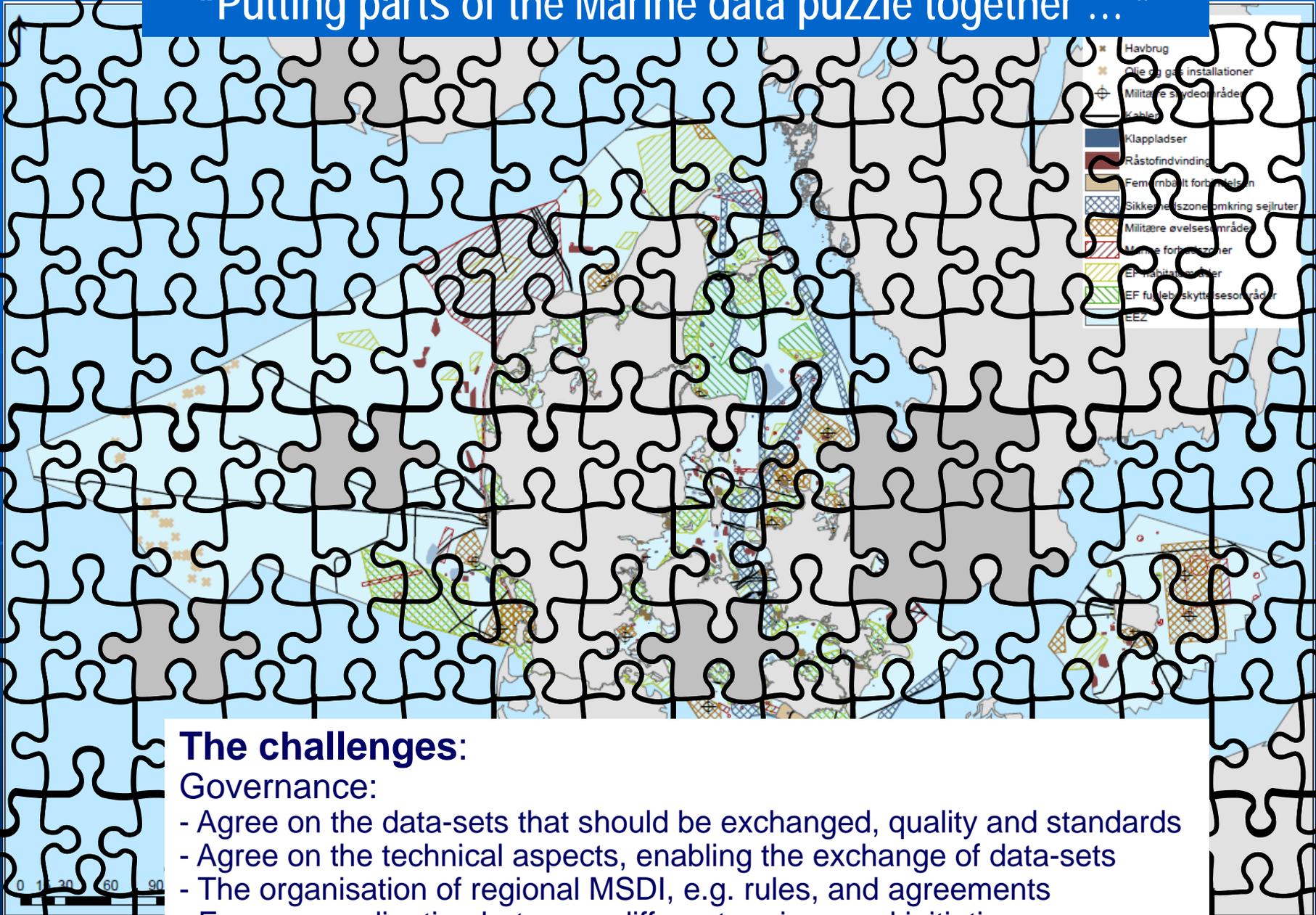


# Hydrography supports:

- ✦ Safety of navigation
- ✦ Protection of the marine environment
- ✦ National infrastructure development
- ✦ Coastal zone management
- ✦ Marine exploration
- ✦ Resource exploitation – minerals, fishing, energy
- ✦ Maritime boundary delimitation (UNCLOS, others)
- ✦ Maritime defence and security
- ✦ Disaster prevention and response



# "Putting parts of the Marine data puzzle together ..."



## The challenges:

### Governance:

- Agree on the data-sets that should be exchanged, quality and standards
- Agree on the technical aspects, enabling the exchange of data-sets
- The organisation of regional MSDI, e.g. rules, and agreements
- Ensure coordination between, different regions and initiatives
- Economy and financial model
- Establishing Metadata