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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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
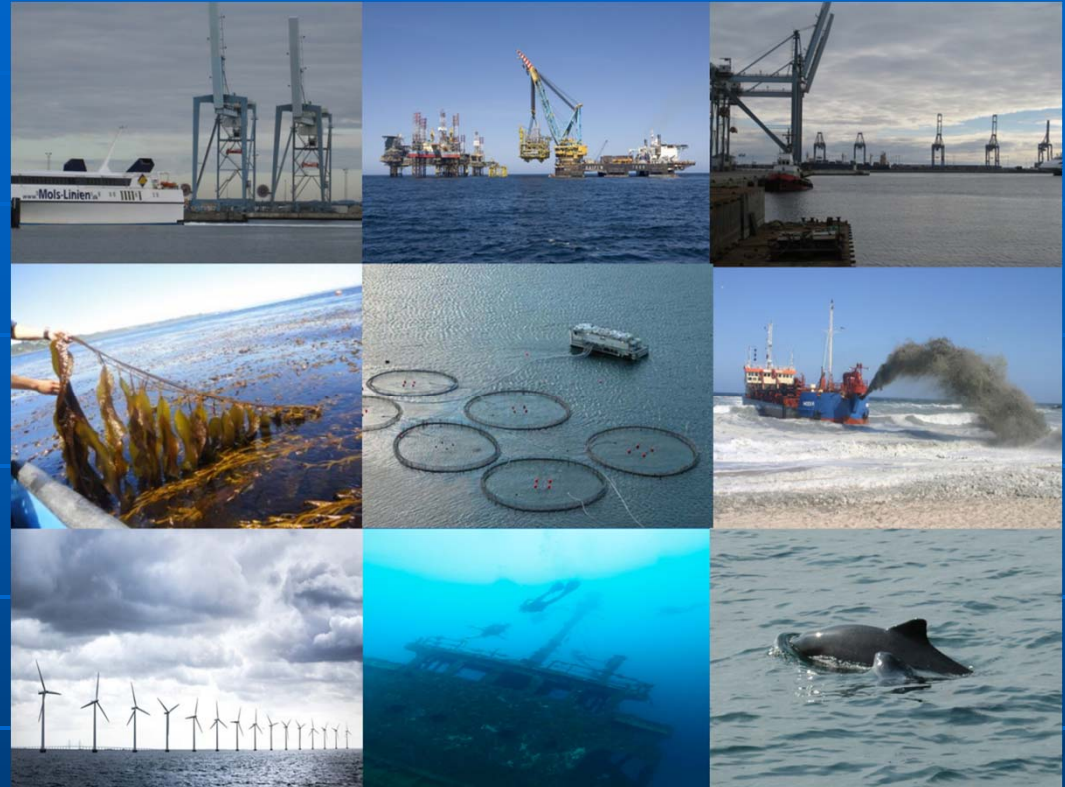
- Increased demands for coordination with neighbouring countries

Not doing anything will not be an option

MSDI

Geo Data of the Sea

MSDI – seen from a National (Danish) perspective
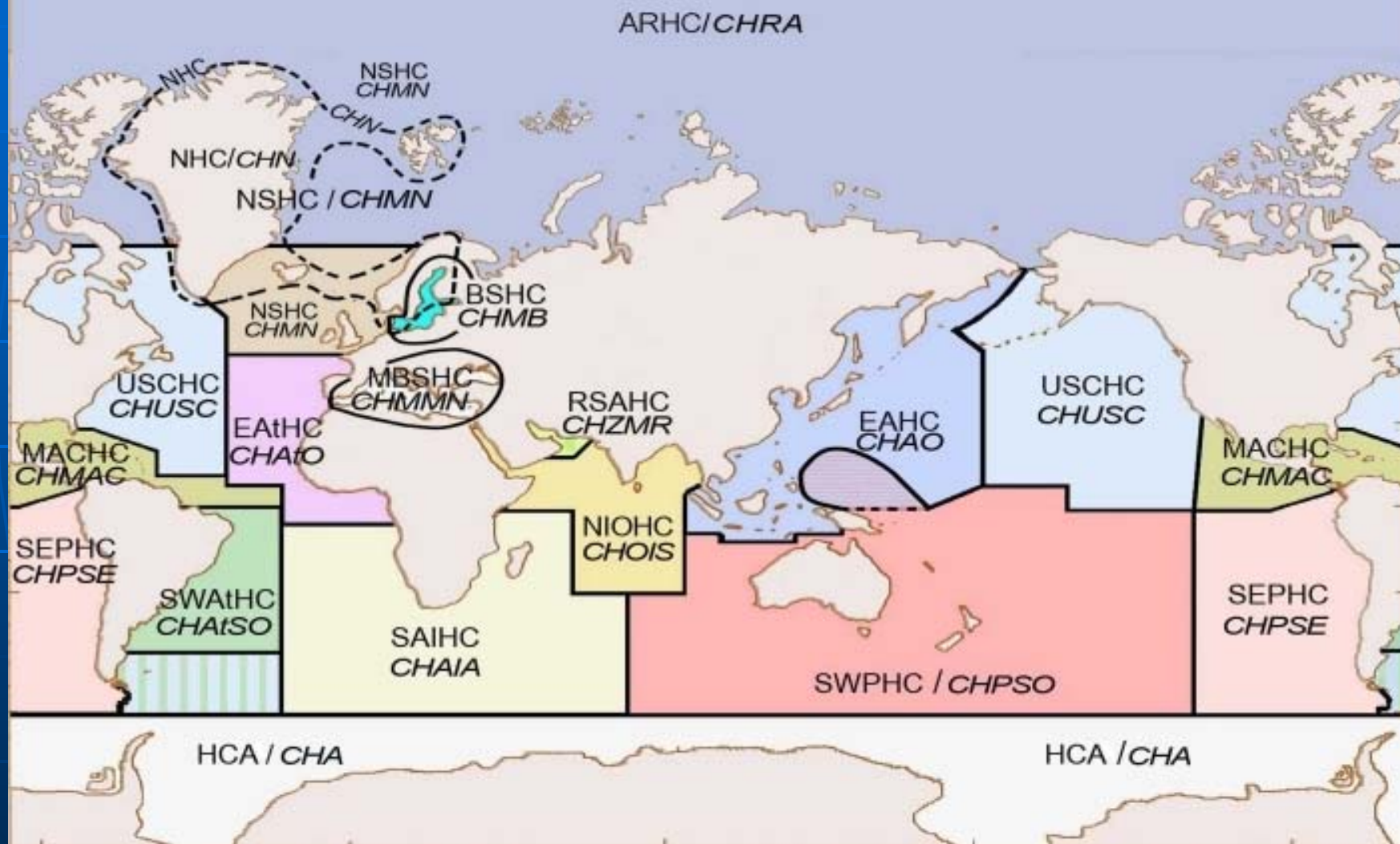
Planning across borders
MSP data set used for:
- *Overview*/Charting
- Planning

Legend:
- Vindmøller
- Havbrug
- ...ie og gas installationer
- Militære skydeområder
- Kabler
- Klappladser
- Råstofindvinding
- Femernbælt forbindelsen
- Sikkerhedszone omkring sejlruter
- Militære øvelsesområder
- Marine forbudszoner
- EF habitatområder
- EF fuglebeskyttelsesområder
- EEZ

0 15 30 60 90 120 Km
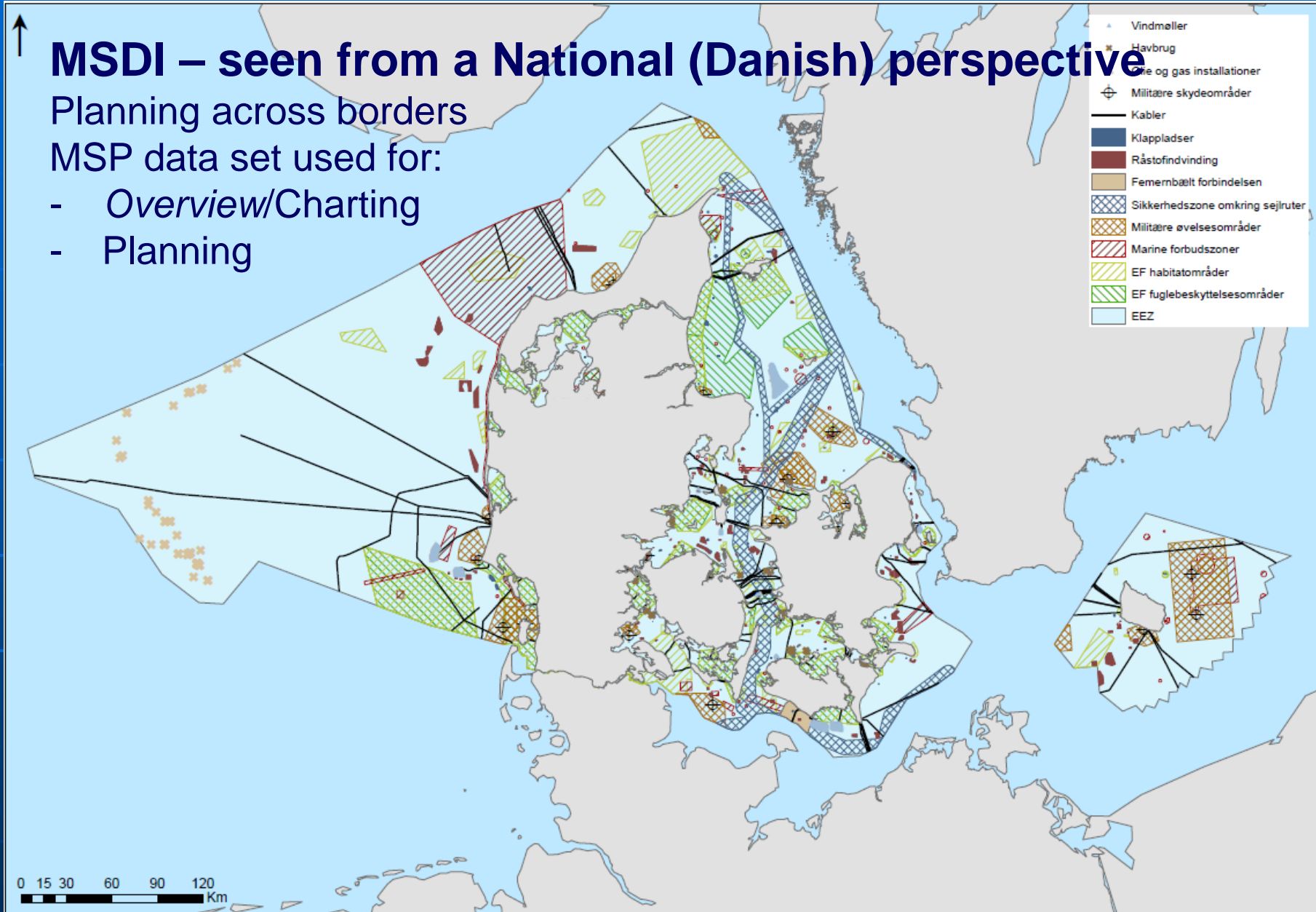
Regional MSDI groups
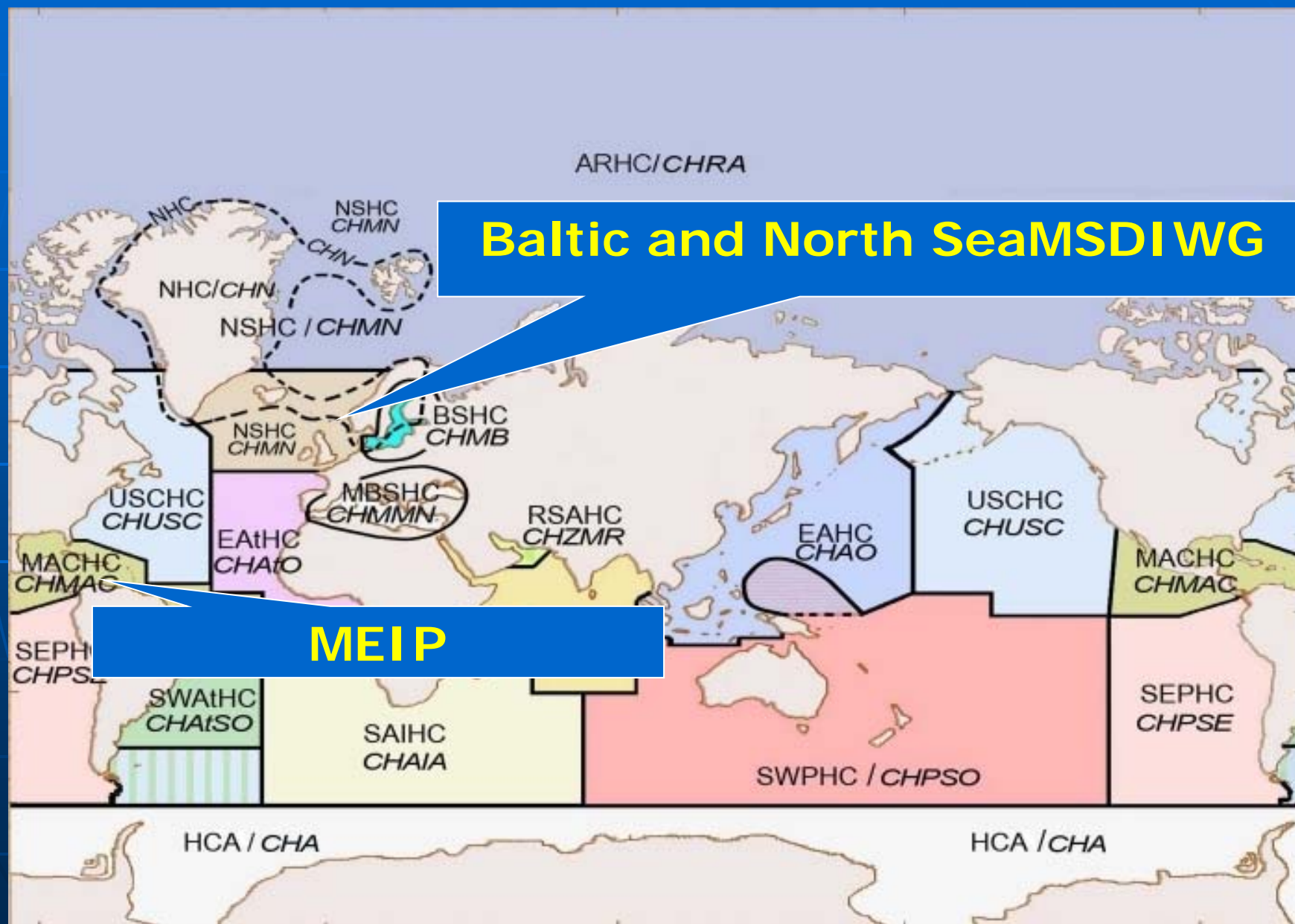
IHO - MARINE SPATIAL DATA INFRASTRUCTURE WORKING GROUP (MSDIWG)

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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.

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 … "
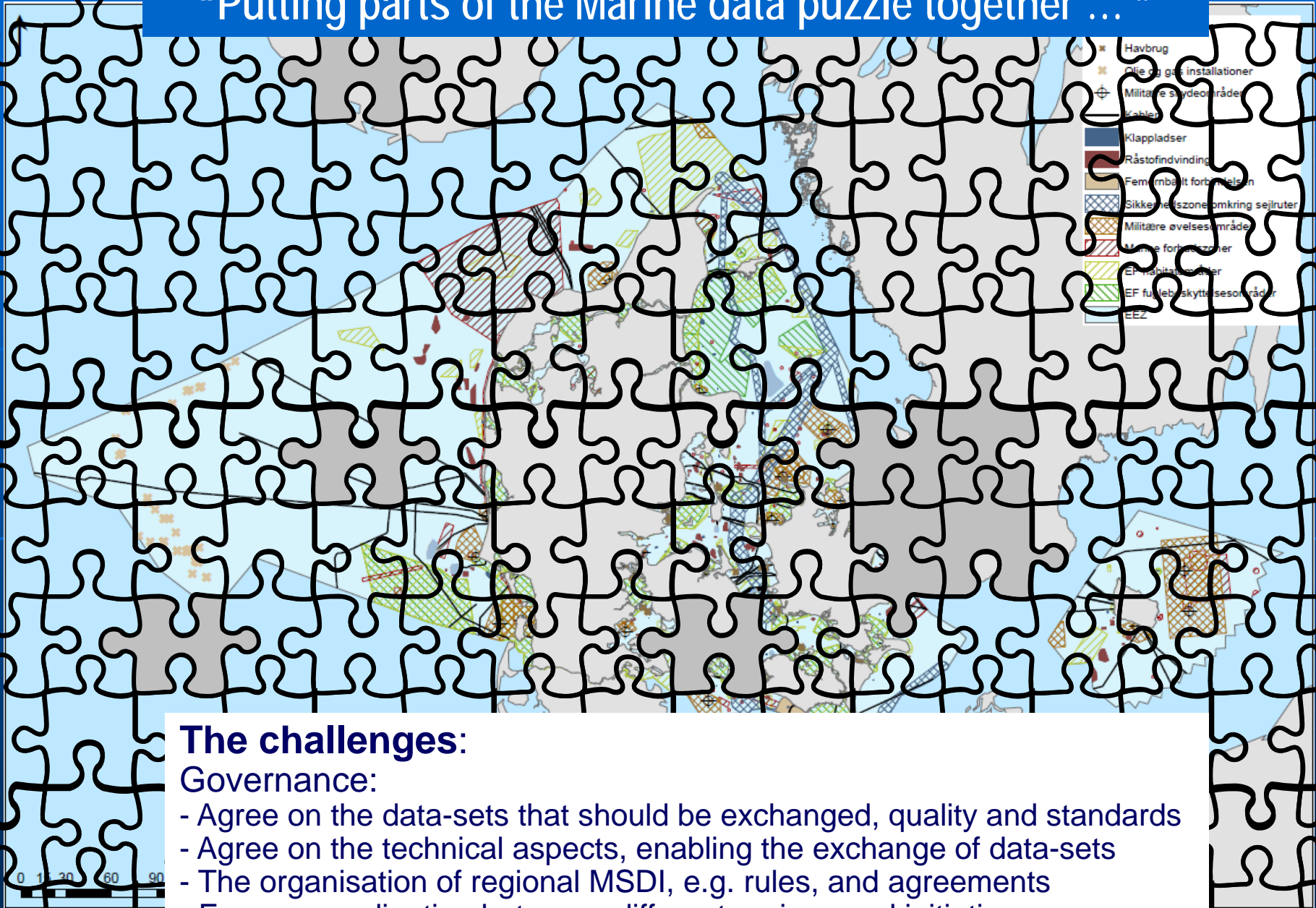
The challenges:

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