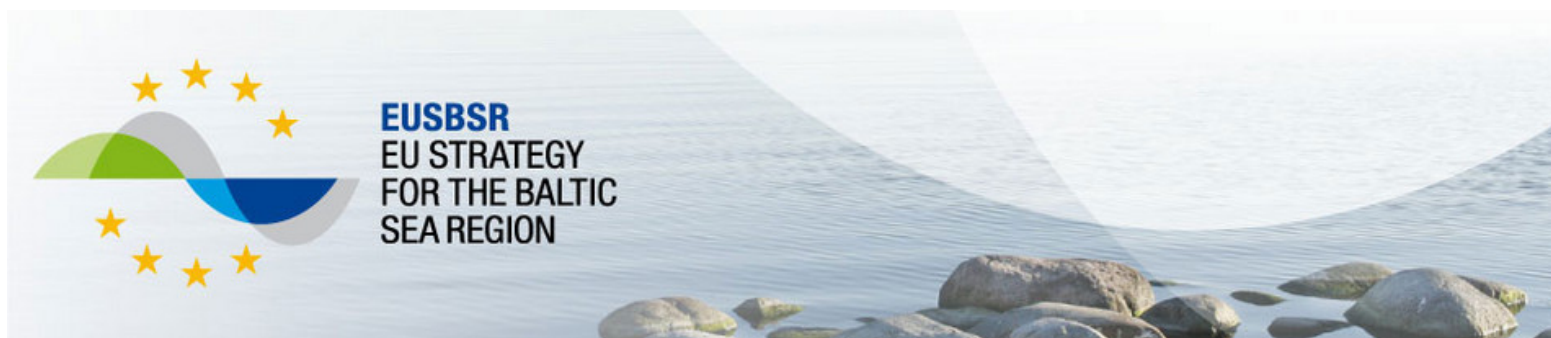# EU macro-regional strategies as a tool to enhance maritime safety and security
– Lessons from the Baltic Sea Region

By Mads Bentzen Billesø, Danish Maritime Authority

Contents

- **EU Macro-regional strategies – current and forthcoming**

- **The EU Strategy for the Baltic Sea Region**
  - its Priority Area on Maritime Safety and Security
    - a few selected project results

- **Synergies between our tasks and the work of NDPTL?**

- **e-Navigation and ArcticWeb**

EU macro-regional strategies

Definitions:

- **A 'Macroregional strategy' is an integrated framework endorsed by the European Council, which may be supported by the European Structural and Investment Funds among others, to address common challenges faced by a defined geographical area relating to Member States and third countries located in the same geographical area which thereby benefit from strengthened cooperation contributing to achievement of economic, social and territorial cohesion.**

- **A 'macro-region' is an area including territory from a number of different countries or regions associated with one or more common features or challenges.**

- **The EU Strategy for the Baltic Sea Region, adopted in 2009, was the Union´s first macro-regional strategy.**

The 4 EU macro-regional strategies so far:

- EU Strategy for the Baltic Sea Region (since 2009)

- EU Strategy for the Danube Region (since 2011)

- EU Strategy for the Adriatic-Ionian Region (from 2014)

- Potential future EU Strategy

  for the Alpine Region

- More regions have expressed interest.
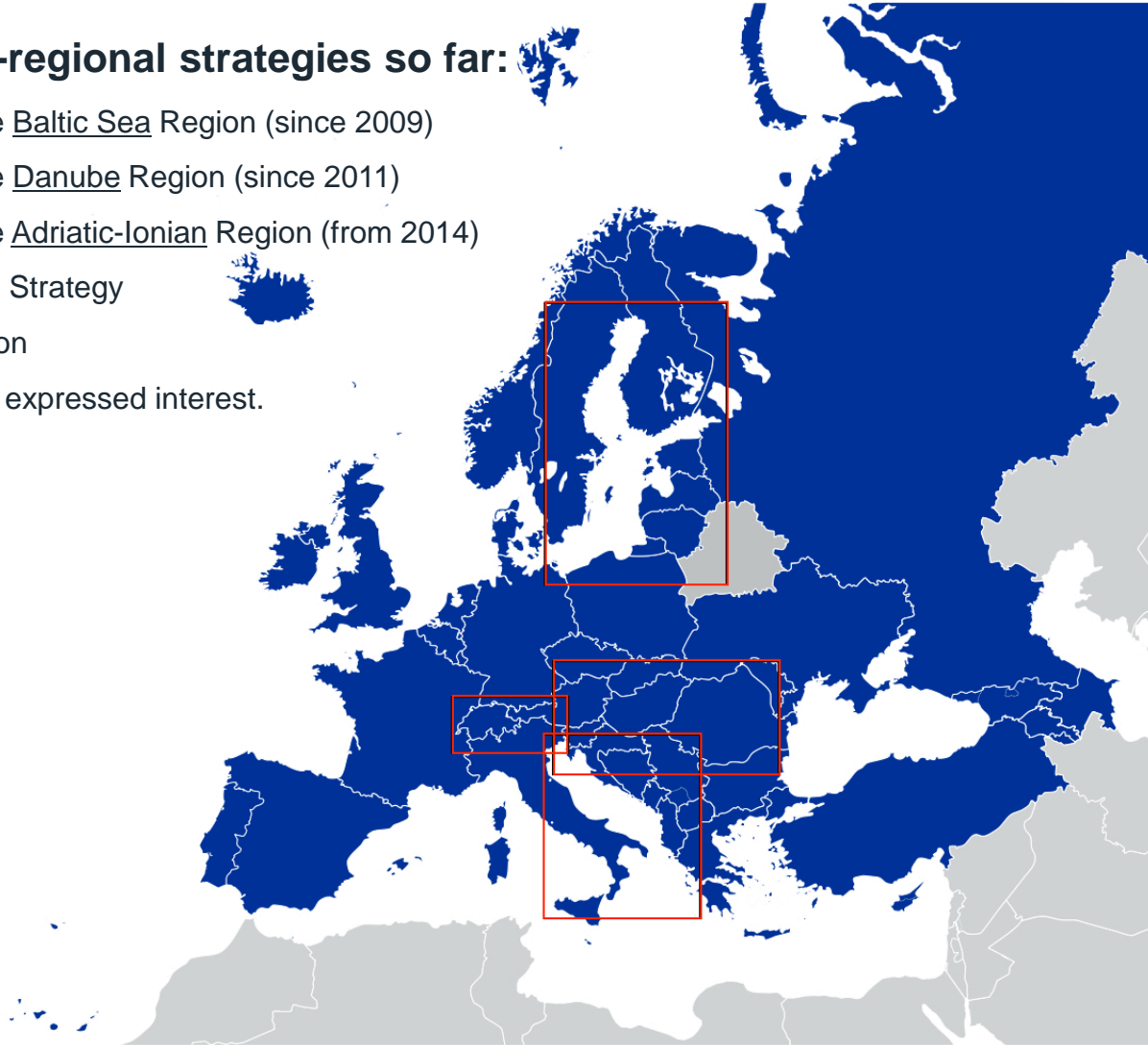
EU Strategy for the Baltic Sea Region

8 EU Member States:
Denmark
Estonia
Finland
Germany
Latvia
Lithuania
Poland
Sweden

European Commission
Other stakeholders

Cooperation with
neighbouring states

- **<u>What</u> is the aim of the Strategy?**

  The Strategy was adopted in 2009 and aims at reinforcing cooperation within the Baltic Sea region in order to face several challenges by working together as well as promoting a more balanced development in the area.

- **<u>Why</u> is a Strategy needed?**

  Since the EU enlargement of 2004, challenges facing the region have increased:
  - Serious environmental condition of the Baltic and some areas on land
  - Gaps in the economic development
  - Poor or missing transport links

  Most of these can only be addressed through better regional coordination and joint action.

- **<u>How</u> is this done?**

  By coordinating actions of the Member States, regions, the EU, pan-Baltic organisations, financial institutions and NGOs. The focus is on coordinating existing policies and programmes better – no new budget lines, legislation or institutions are foreseen!

  The working method is primarily <u>intergovernmental</u> dialogue, and the role of the Commission is to assist and encourage rather than to propose new initiatives or enforce implementation.

Overall ambition

The three cornerstones of the EU Strategy for the Baltic Sea Region are to:

- **Save the sea**

  – Clear water, clean & safe shipping, rich and healthy wildlife, better cooperation.

- **Connect the region**

  - Create good transport connections on land and at sea, well-connected energy markets, connecting people in the region, fighting cross-border crime.

- **Increase prosperity**

  – Regional implementation of Europe 2020 Strategy, improving competitiveness, creating jobs, climate change adoption, risk prevention & management.

Implementation

- **The <u>Strategy</u> is being implemented through an Action Plan**

- **The <u>Action Plan</u> translate the three conerstones of the EUSBSR into:**

    - **17 thematic Priority Areas**

    - **5 cross-cutting Horizontal Actions**

- **A <u>Priority Area</u> consists of:**

    - **Priority Area Coordinator**

    - **Flagship Projects**

    - **International Steering Committee**

    - **Other activities**

Priority Area for Maritime Safety and Security (PA Safe)

- **Objective: To become a leading region in maritime safety and security.**

- **Denmark and Finland appointed as Priority Area Coordinators.**

- **A Steering Committee has been established to guide and assist the Priority Area Coordinators.**

How we work

- **Priority Area Coordinators**
    - **Takes care of the daily work of the Priority Area**
    - **Undertakes a secretariat function**
    - **Prepares a policy dialogue and liaises with relevant stakeholders**

- **Steering Committee**
    - **Consisting of representatives of maritime authorities, Commission services, regional organisations and projects.**
    - **Anchor decisions of the Priority Area all over the region**
    - **Develop new projects and ensures follow-up of results achieved**
    - **Meets two times per year**

- **Flagship Projects**
    - **Turns the objectives of the Priority Area into concrete action and activities**

Turning objectives into actions by means of Flagship Projects

- **Our projects cover a wide range of aspects of maritime safety.**

- **Projects can be headed by national or regional authorities, universities, ports etc.**

- **Our projects are typically funded by a mixture of funding sources, including EU funding programmes (such as Interreg, TEN-T and others), national and regional funding.**

- **Projects can have a double status – e.g. both in EMSA or HELCOM and in the EU Strategy.**

Flagship Projects

6 ongoing and 3 completed projects in such fields as..
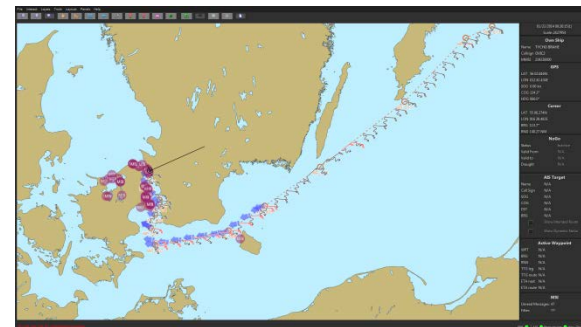
Re-surveying of shipping routes

Safety in fisheries
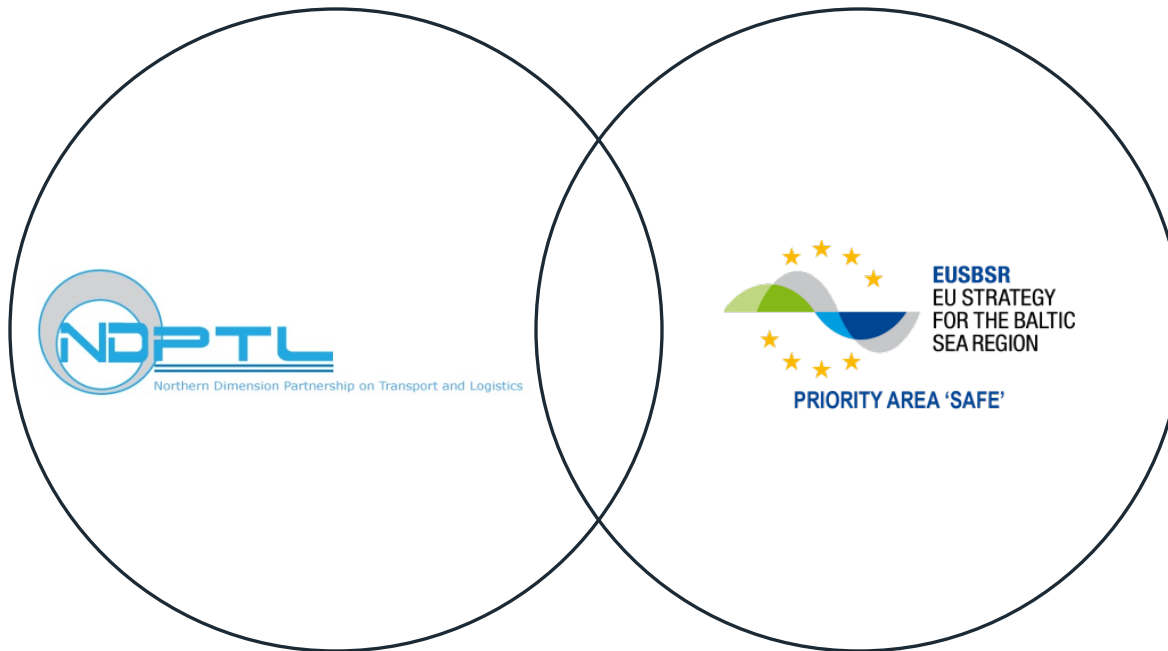
Transport of dangerous goods

Winter navigation in icy waters

e-Navigation

# Perhaps we can identify synergies between NDPTL and the work of PA Safe?

e-Navigation

- A series of projects on e-Navigation are conducted in the Baltic, in line with the EU Strategy´s aim to become a leading region in this field.
- Projects include EfficienSea and MonaLisa I+II and other initiatives.
- Development and test of required architecture, infrastructure and basic services
- Moreover, results of these projects have e.g.:

  - given valuable input for an e-Navigation strategy implementation plan in IMO
  - led to new e-Navigation services for the Arctic allowing long-range AIS access, exchange of ice charts, showing distance to nearest vessels etc.
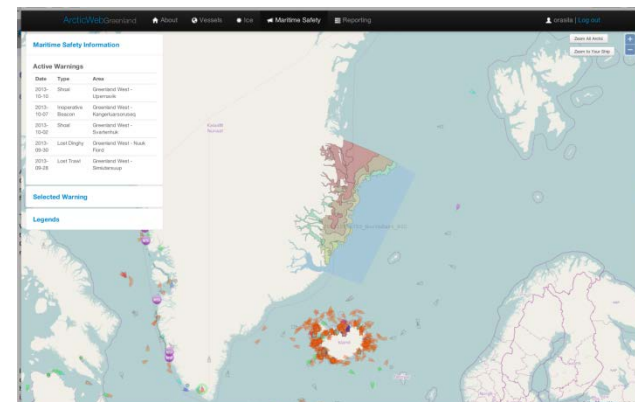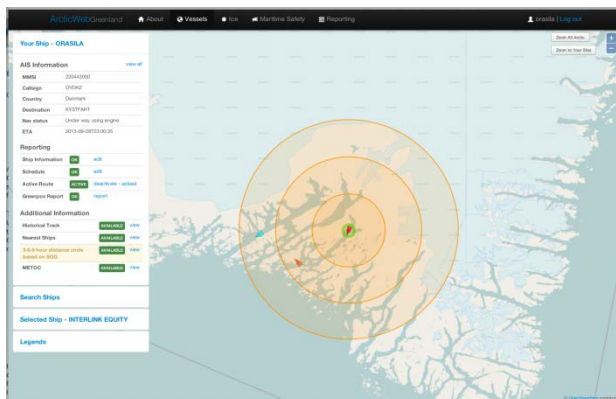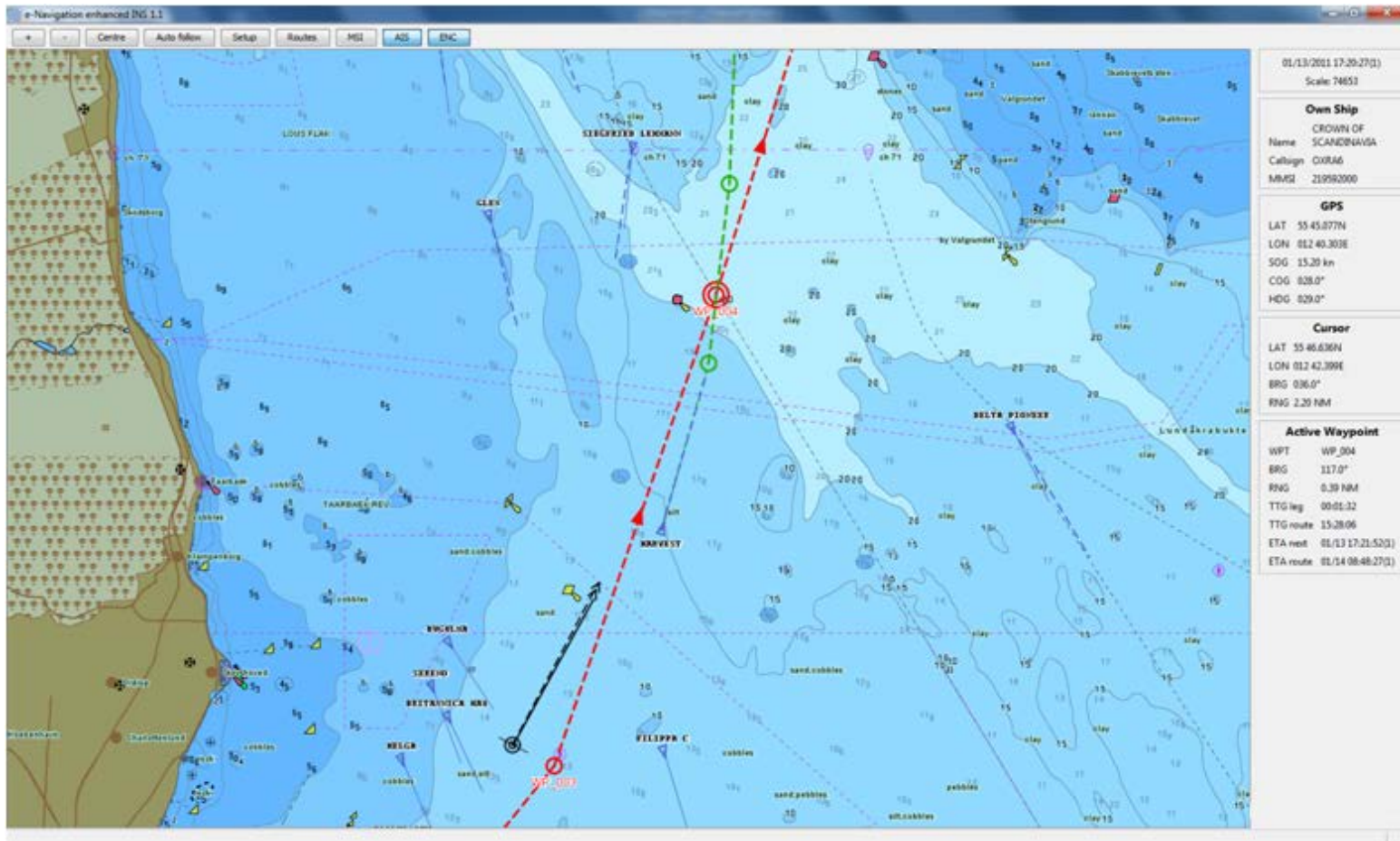
e-Navigation – definition

*"e-Navigation is the **harmonized** collection, integration, exchange, presentation and analysis of marine information onboard and ashore by electronic means to enhance berth to berth navigation and related services for safety and security at sea and protection of the marine environment."*

MSI/NM (T) and (P)
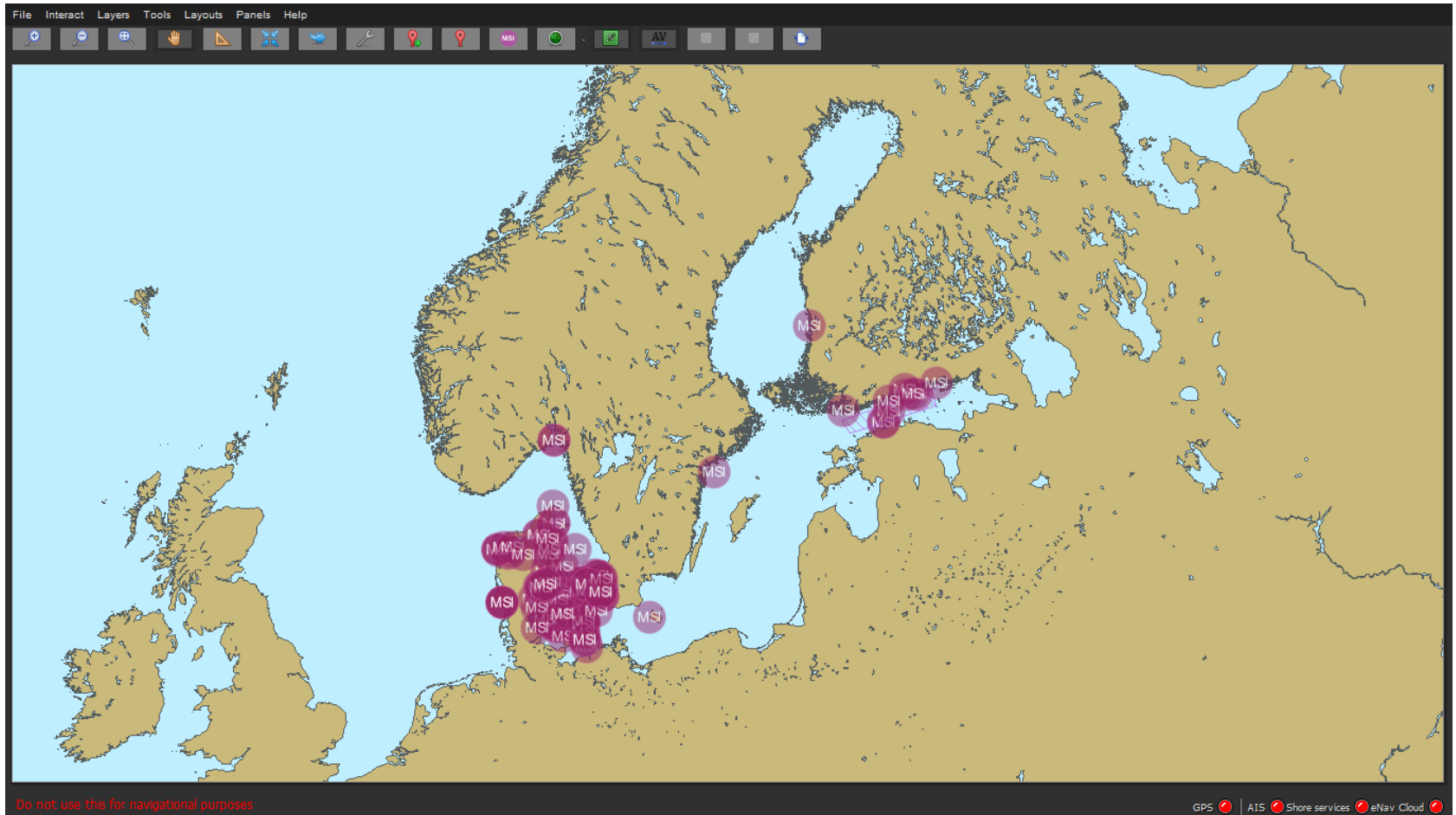
Exchange of routes
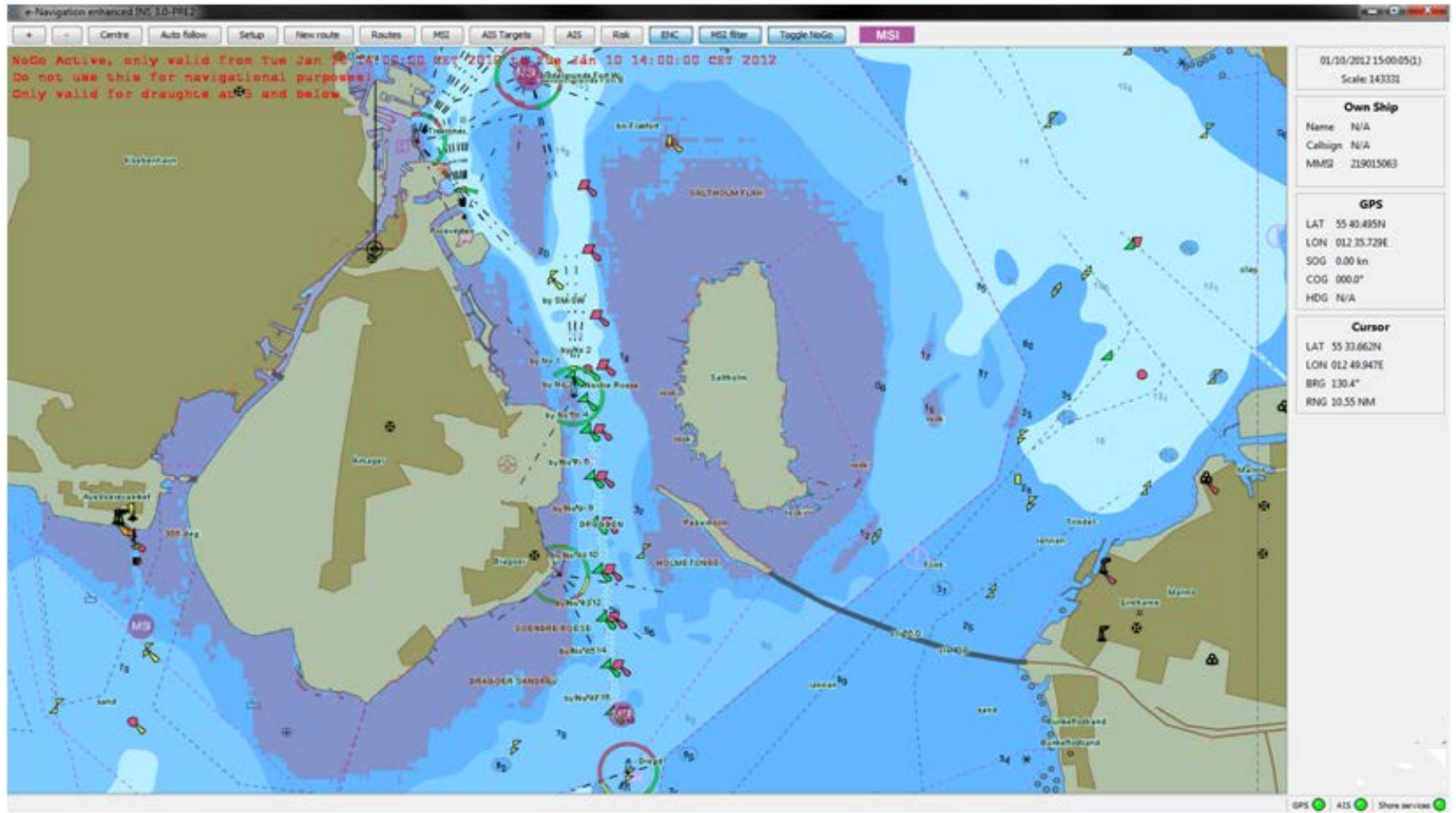
No-Go Areas

The Maritime Cloud will:

Support IMO's 5 prioritized e-navigation solutions

Support future e-navigation solutions

Support sharing of all kinds of maritime information

Be secure

>   Facilitate authenticity

>   Facilitate integrity

>   Facilitate confidentiality
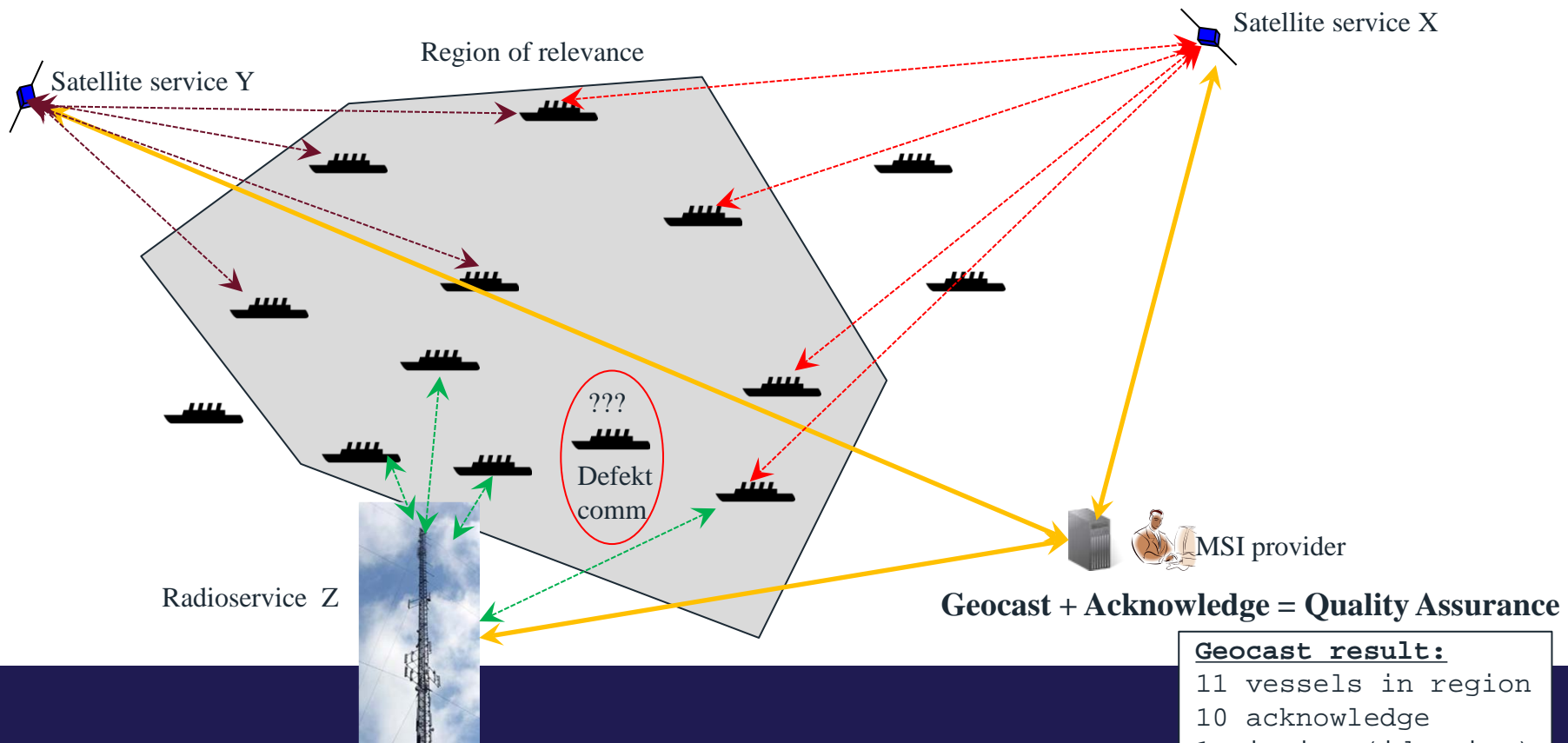
Be carrier independent

>   Facilitate seamless transition from existing to new communication channels

S4: Maritime Cloud – MSI promulgation

Satellite service X

Region of relevance

Satellite service Y

Defekt comm

???

Radioservice Z

MSI provider

Geocast + Acknowledge = Quality Assurance

Geocast result:
11 vessels in region
10 acknowledge
1 missing (identity)

Embryonic e-navigation / ArcticWeb

- **Embryonic e-navigation**
  - **Webbased test and implementation of e-navigation solutions and services**

  - **Not limited by existing equipment or carriage requirements**

  - **Test of different possibilities before finalization of standards**

- **ArcticWeb**
  - **Focus on Arctic (but platform and concept has global interest)**
  - **Coordinated voyage**
  - **Gathering all relevant information for the Arctic**
  - **Early implementation of e-navigation solutions and services**

ArcticWeb, an aid to safe operation in the Arctic

ArcticWeb provides:

- **Full overview of other vessels in the area from AIS data collected by national and commercial satellites and base stations.**

- **Ice charts**

- **Weather data, including weather forecasts for planned route.**

- **Navigational warnings.**

- **Reporting (GREENPOS and others)**

- **Enabling Coordinated Voyage through the sharing of routes and schedules.**

- **Tools to help ships in need of assistance**

- **Front page with all relevant static/text information (e.g. Ice charts (pdf), weather information and a safety package with regulations and other important information.**

Ice Charts

Cape Farewell

DMI	2014-01-16 20:55	17 KB	zoom
DMI	2014-01-16 9:30	17 KB	download
DMI	2014-01-13 9:15	16 KB	download
DMI	2014-01-09 9:30	14 KB	download
DMI	2014-01-06 9:20	11 KB	download
DMI	2014-01-02 9:30	11 KB	download
DMI	2013-12-30 9:20	11 KB	download
DMI	2013-12-27 9:15	14 KB	download
DMI	2013-12-27 4:00	19 KB	download
DMI	2013-12-20 9:10	20 KB	download

Central West

| DMI | 2013-12-19 21:15 | 80 KB | download |

South East

| DMI | 2014-01-02 6:00 | 26 KB | download |
| DMI | 2013-12-18 20:00 | 47 KB | download |

South West

DMI	2014-01-02 21:30	56 KB	download
DMI	2013-12-29 21:30	68 KB	download
DMI	2013-12-26 21:15	60 KB	download

Greenland Overview

DMI	2014-01-15 12:00	545 KB	download
DMI	2014-01-12 12:00	541 KB	download
DMI	2014-01-08 12:00	464 KB	download
DMI	2014-01-05 12:00	457 KB	download
DMI	2014-01-01 12:00	505 KB	download
DMI	2013-12-29 12:00	492 KB	download
DMI	2013-12-26 12:00	487 KB	download
DMI	2013-12-22 12:00	460 KB	download
DMI	2013-12-18 12:00	514 KB	download

Selected Ice Observation

Legends

63 polygons. 10105 points drawn.

Zoom All Arctic
Zoom to Your Vessel
Switch Base Map

2G1401162055_CapeFarewell_RIC

We also coordinate…
the Priority Area on Clean Shipping

Aims at becoming a model region for clean shipping

Flagship Projects

- **6 ongoing and 3 completed projects**

- **Current and upcoming projects cover reduction of emissions from ships, waste and sewage handling on board and port reception facilities, LNG, compliance monitoring and new technologies for cleaner and greener shipping.**

Thank you for your attention & have a nice day!

Further information:

Mads Bentzen Billesø

Danish Maritime Authority Maritime Technology and e-navigation

mcb@dma.dk

EU Strategy for the Baltic Sea Region
http://www.balticsea-region-strategy.eu

Priority Area on Maritime Safety and Security
http://pa-safe.dma.dk

Priority Area on Clean Shipping
http://pa-ship.dma.dk

EUSBSR
EU STRATEGY
FOR THE BALTIC
SEA REGION

PRIORITY AREA 'SAFE'