

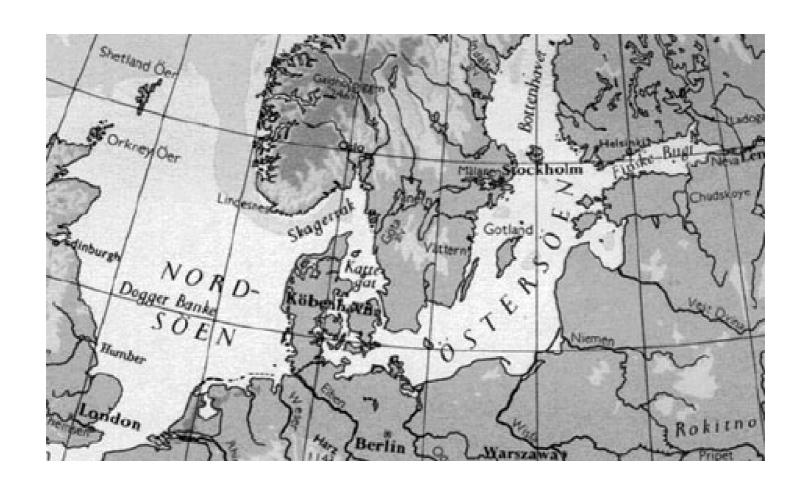
A project co-financed by the EU Interreg IV B Baltic Sea Region Programme aiming at "Efficient, Safe and Sustainable Traffic at Sea"

Presentation by

**Deputy Director General Francis Zachariae** 

**Danish Maritime Safety Administration** 





## Safe and Secure Place

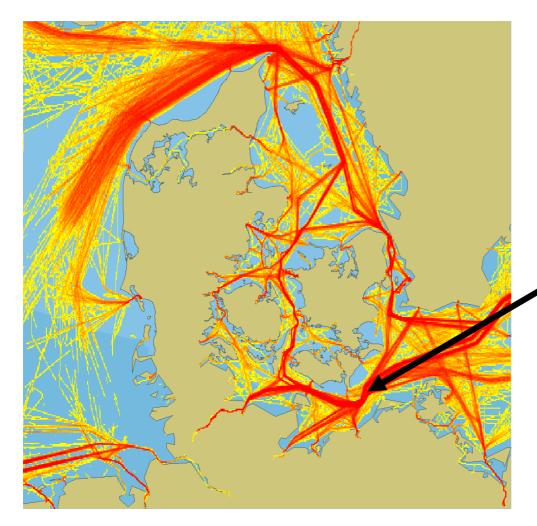


Oil transports especially from Russia have doubled in the period 2000-2007

Oil transports in the Gulf of Finland have increased by 4 from 1995 to 2005

Increase is expected to continue

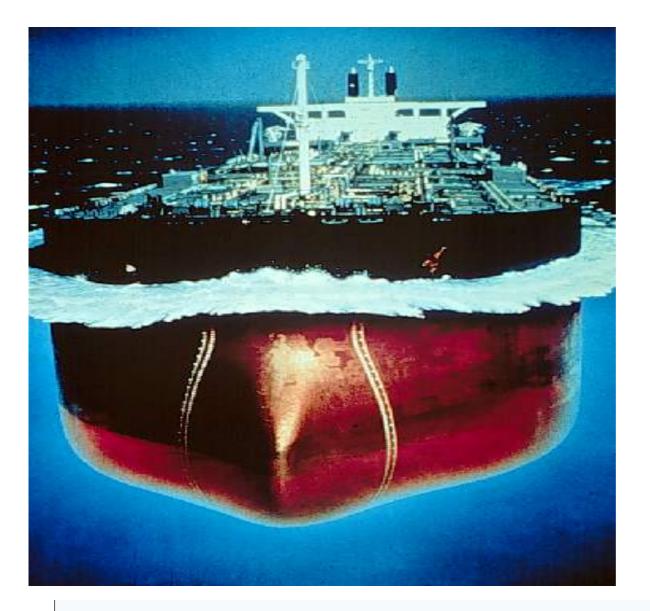




More than 70.000 ships and 10.000 tankers are passing the narrow straits



Many people look at a ship like this!



We look at it like this!







## The EfficienSea project in brief...

 Involves 16 partners from Denmark, Sweden, Norway, Finland, Poland and Estonia and an associated

industrial partner (Maris)

 Has a budget of 8 Mill. €(and is thus in terms of financing one of the largest Interreg projects)

 Lead partner: the Danish Maritime Safety Administration

• Timeframe: 2009 – 2011 (possibly to be extended)









## The objectives of the EfficienSea project...

- Efficient, Safe and Sustainable traffic at sea
- Improving maritime safety
- Improving environmental sustainability
- Accident prevention
- Raising awareness of challenges in a regional context









## Contents of the EfficienSea project...

<u>Prevention</u> is a key word for all the so-called work packages of the project, which focus respectively on:

- Improved maritime education better accident prevention
- E-Navigation

  increased situation awareness
- Improved maritime planning a holistic approach
- Dynamic risk management tools prevent accidents





## Work packages

#### **WP1 - Project Management**

Danish Maritime Safety Administration

WP2 Communication	WP3  Recruitment & competences	WP4 e-Navigation	WP5 Vessel Traffic Data & Maritime Planning	WP6  Dynamic Risk  Management
Danish Maritime Safety Administration	Swedish Maritime Administration	Danish Maritime Safety Administration	Norwegian Coastal Administration  (by interim Danish Maritime Safety Administration)	Finnish Transport Agency







e-Navigation is one of the central components of the EfficienSea project and deserves particular mentioning...

According to IMO definition from 2005:

e-Navigation is the harmonised collection, integration, exchange, presentation and analysis of maritime 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.

In short: a holistic approach to navigation!







# Proposed e-Navigation services (included in mock-up 2.0)

General principles

Integrating information in one system

Only show relevant information in the given situation (decision support / information filtering)

Different visualisation method based on task at hand (2D, 3D presentations)

Object fusion
Only one object presented in display for one physical object

Information sharing (All relevant information is shared between all users shore and sea)

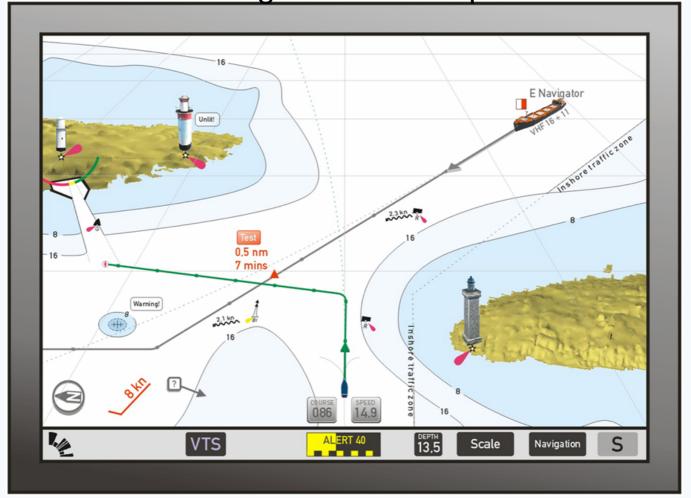








E-navigation "mock-up"







## Test-bed for e-navigation in the Baltic Sea

EfficienSea is setting up a test bed in the Baltic Sea with different levels of e-Navigation services

The primary focus area is the sound between Denmark and Sweden

Possible other focus areas:

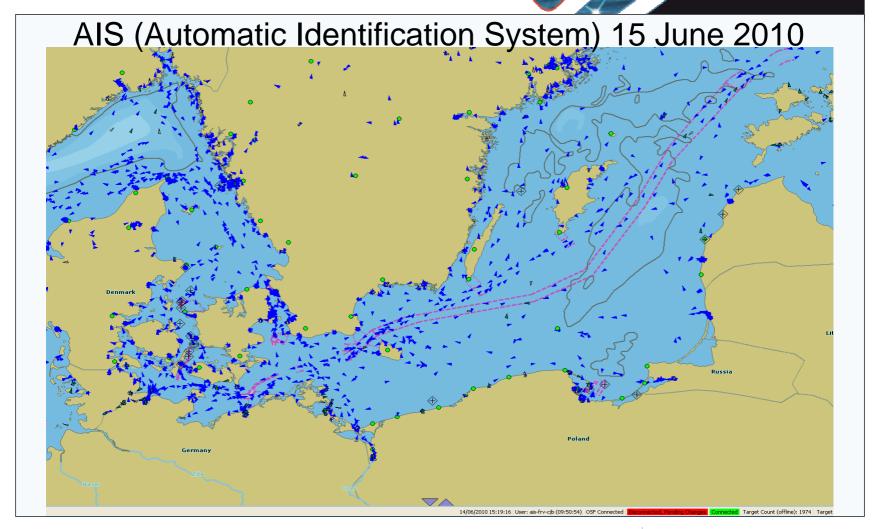
Strait between Finland and Estonia (AIS tests)

Bay of Gdansk















#### Test bed users include:

Scandlines; Ferries between Elsinore and Helsingborg

DFDS; Ferries between Copenhagen and Oslo

Herning Shipping; Tankers

Sound VTS Vessel Traffic Service

Pilots: Transit and port calls

Svitzer: Tug boats operating in the area

Visby tankers

DaMSA: Bouy tenders

Stena Line; ferries







## "Participants in EfficienSea test bed 1/4"



Prins Joachim Scandlines Gedser - Rostock



Crown of Scandinavia DFDS
Copenhagen - Oslo



Tycho Brahe Scandlines Elsinore - Helsingborg



Stena Carisma Stena Line Frederikshavn - Göteborg



Pearl of Scandinavia DFDS Copenhagen - Oslo



Bitten Theresa Herning Shipping







## " Participants in EfficienSea test bed 2/4"



Vitta Theresa Herning Shipping

..



Wisby Wave Wisby Tankers



Fenja Svitzer

. .



Poul Løwenørn Danish Maritime Safety Administration



Mars Svitzer

. . .



Jens Sørensen Danish Maritime Safety Administration







## "Participants in EfficienSea test bed 3/4"



Zodiak Maritime office of Gdynia



Tucana Maritime Office of Gdynia



Katarina KYAMK



Sektori Estonian Maritime Administration



A number of pilot vessels DanPilot / Danish Maritime Safety Administration



Eva Estonian Maritime Administration

Baltic Sea Region



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## "Participants in EfficienSea test bed 4/4"

And finally Vessel Traffic Service centre(s)

Sound VTS



SOUND VTS is a cooperation between Danish and Swedish authorities that aims to improve the safety of navigation. SOUND VTS provides information to the shipping about specific and urgent situations, which could cause conflicting traffic movements.

SOUND VTS broadcasts relevant information concerning safety of navigation in the operational area.

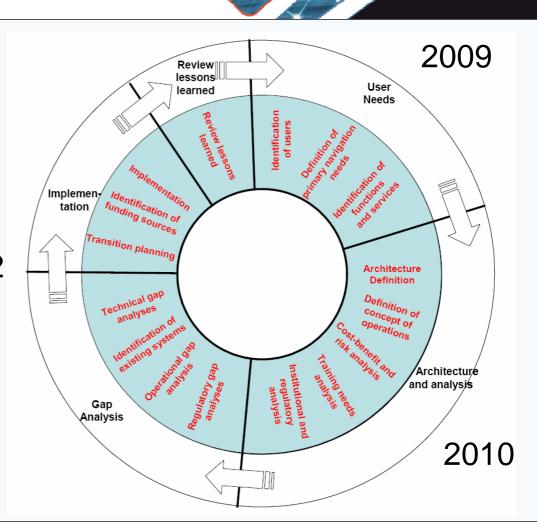






# The international process in IMO

2012







### Draft political Recommendations - 19th BSPC Draft Resolution

..support the initiatives to improve safety and environmental risk reduction in the Baltic Sea, i.e. efficient and compatible surveillance, monitoring and routing systems and addressing the human element factor.





## Thank you for your attention

Additional information is available at

www.frv.dk

www.efficiensea.org



