

**Consequences of new restrictions on emissions for  
countries depending on sea transportation and for shipowners**

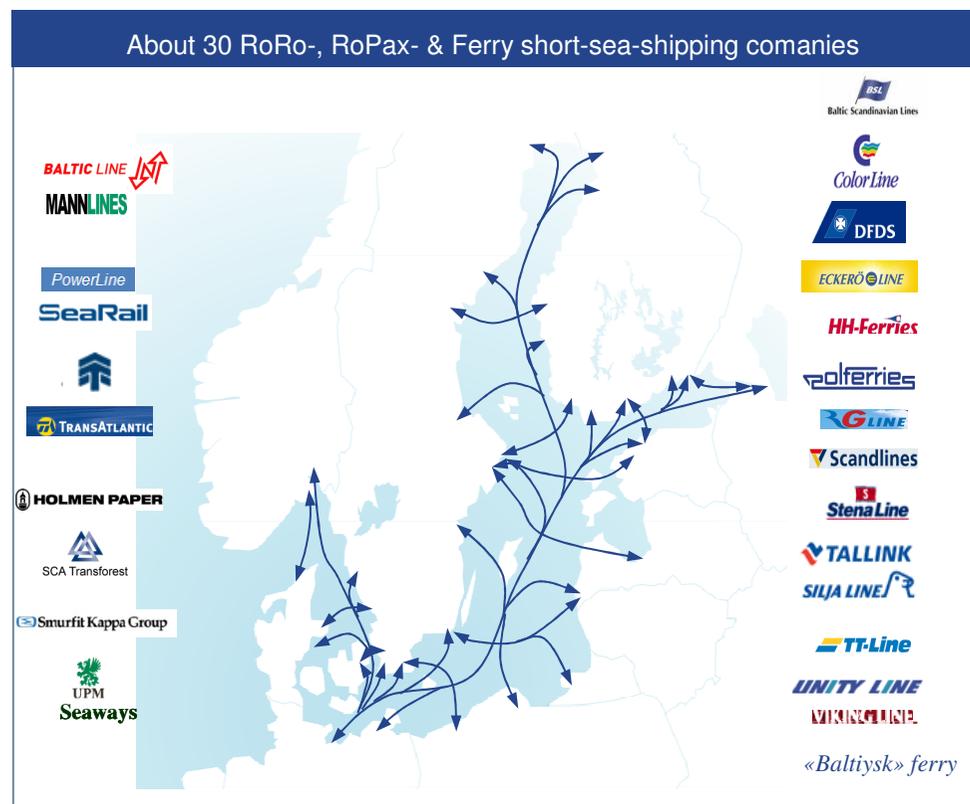


**Bilbao, 14.04.2011**

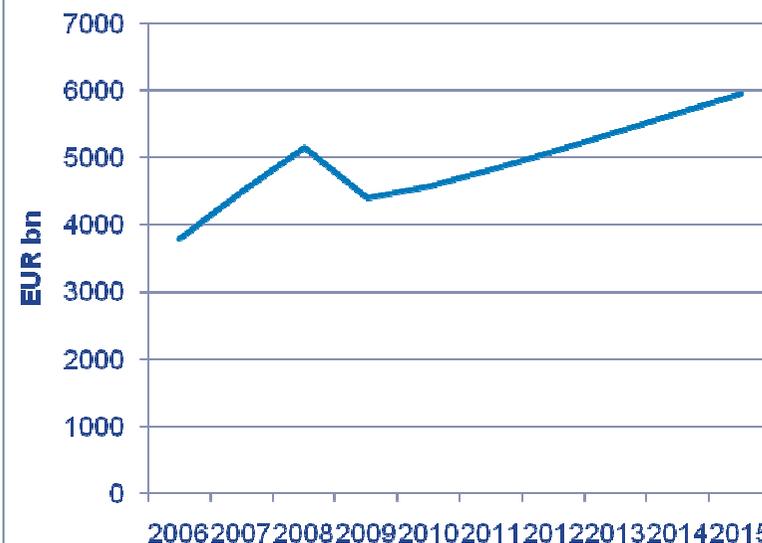
**Uwe Bakosch**

**President/CEO, Finnlines Plc**

# Baltic Sea Transports



## Baltic Sea States GDP \*)



\*) Denmark, Estonia, Finland, Germany, Latvia, Lithuania, Poland, Russia, Sweden

Source: International Monetary Fund (2010) - World Economic Outlook Database

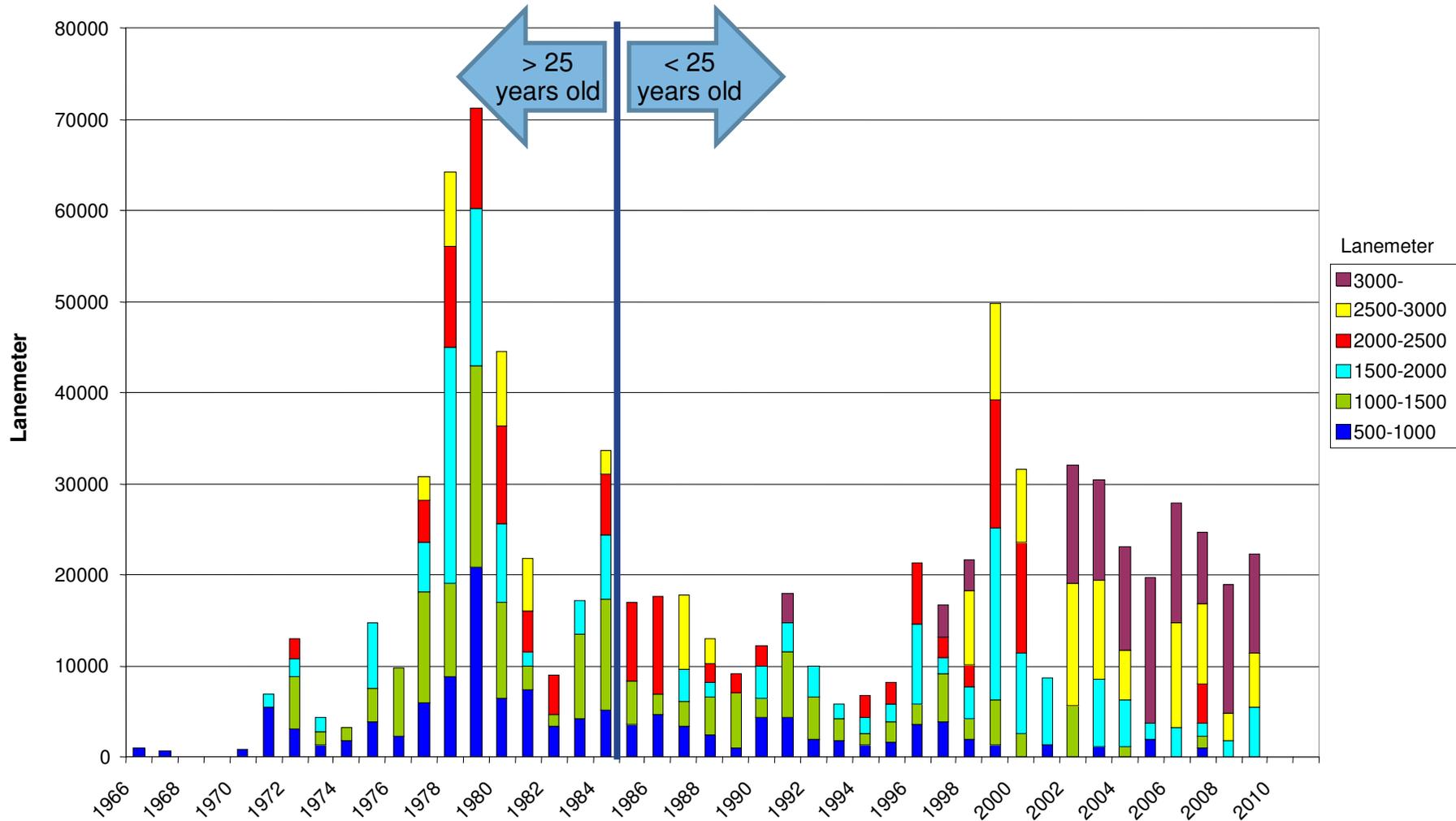
Approx. 8% of the world trade takes place on the Baltic Sea!<sup>1)</sup>

This equals to 620 million tons of freight<sup>1)</sup> on only 0,12% of the area of all oceans. Experts expect 4% growth p.a. for Baltic Sea transports.

Source: 1. Ostseeinstitut für Verkehr, Marketing und Tourismus / University of Rostock

**50% of the worlds RoRo-vessels are older than 25 years. After 2002, the biggest part of newbuildings has a capacity of >3.000 lanemeters**

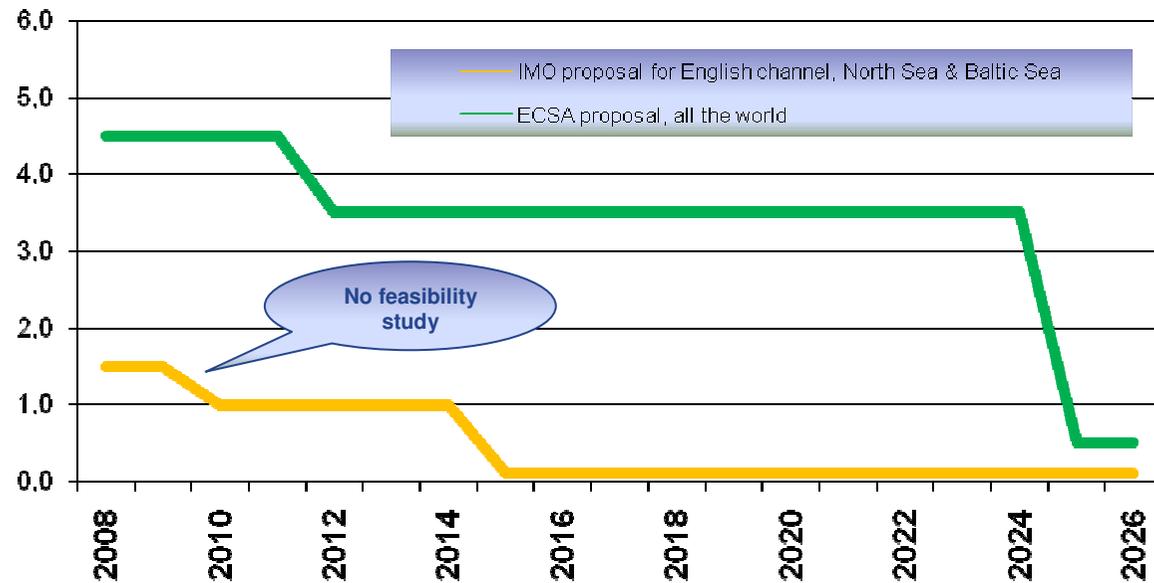
RoRo tonnage age profile



Source: Fearnleys

## Further development

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### Facts:

- From 2015 onwards 0,1% SO<sub>x</sub> restriction in Sulphur Emission Control Areas (SECAs)
- From 2020/2025 onwards 0,5% SO<sub>x</sub> restriction worldwide

## Critical consequences on new restrictions related to Baltic Sea states (I)

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Not only shipping companies and harbours affected, but great economical impacts for Baltic neighbouring countries:

- Transport costs to/from Baltics will increase from 2015 onwards. 2/3 of the shipping companies operating at the Baltic Sea expect an increase per transported unit between 25 and 50%.<sup>1)</sup>
- Increasing transport costs will have macro economical consequences: Im- and exportability of Baltic Sea surrounding countries will suffer dramatically. Especially Finland is affected to a large extent with its de-facto island status as transports have to be routed via Russia or the Baltic Sea. Same principals also apply for Sweden or Latvia.

The im- and exportability of these countries depends highly on efficient sea transports. The Stora Enso CEO Mr. Jouko Karvinen, cited in an article of the Finnish Newspaper "Helsingin Sanomat" on 2.3.2011, estimates that additional costs for Finlands export industry over 1 billion EUR could even put an end to the forest industry in Finland.<sup>2)</sup>

Sources: 1. Unicredit (2010) – 5<sup>th</sup> Maritime Trend Barometer, Hamburg, December 2010  
2. Helsingin Sanomat (2011) – Rikkimääräys lopettaa metsäteollisuuden, Helsinki, 02.03.2011

## Critical consequences on new restrictions related to Baltic Sea states (II)

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- Macro economical consequences not restricted to Northern European countries: also northbound exports, for instance from Germany, will be more expensive and unattractive for buyers in Northern Europe.
- Before the decision of the Marine Environment Protection Committees 57th meeting (MEPC57) the shipping companies thought, a 0,5% SOx restriction would be applied. The branch had already prepared for this and therefore already accepted a massive increase of fuel costs.
- From an eco-political view it is important to mention, that the enduring use of HFO with 3,5% sulphur emission on the oceans and even in the Mediterranean and Irish Sea will destroy our efforts in the Baltics, since the Baltic Sea is no closed eco system and the emission will not stop at our borders. Furthermore the emission of CO2 from road traffic will exponentially increase due to the shift of goods back to the roads.

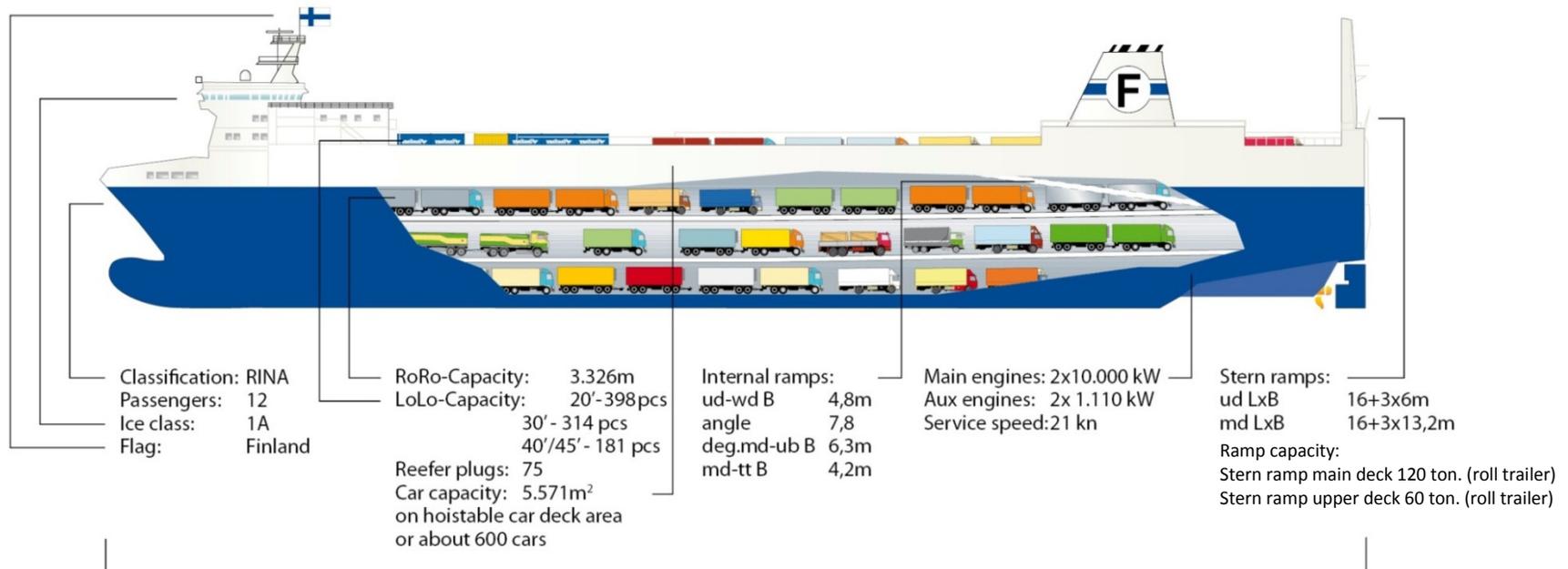
# Potential for improvement

The real potential for improvement is based on efficient fleet management and modernity of vessels:

- hydrodynamics
- modern engine technology
- modern propeller and rudder design
- all combined with high cargo intake

Picture: MV Finnbreeze, delivered on 10.03.2011 and MV Finnsea delivered on 30.03.2011.

- MV Finnsky, to be delivered in Q4/2011
- MV Finnsun, to be delivered in Q4/2011
- MV Finntide, to be delivered in Q4/2012
- MV Finnwave, to be delivered in Q4/2012



ud-wd B = upper deck - weather deck Breadth  
 md-ud B = main deck - upper deck Breadth  
 md-tt B = main deck - tank top Breadth  
 ud LxB = upper deck Length x Breadth  
 md LxB = main deck Length x Breadth

Length overall: 188,4m  
 Beam: 26,5m  
 Draft: 6,9m