

Developments in International Shipbuilding

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IMSF Annual Meeting 2014 - Copenhagen

Blue Growth

The surface of the globe consists of 70% water

The world coastline is 356.000 km long

7 bn people live on Earth

UN expects a global population of 9.7 bn in 2050

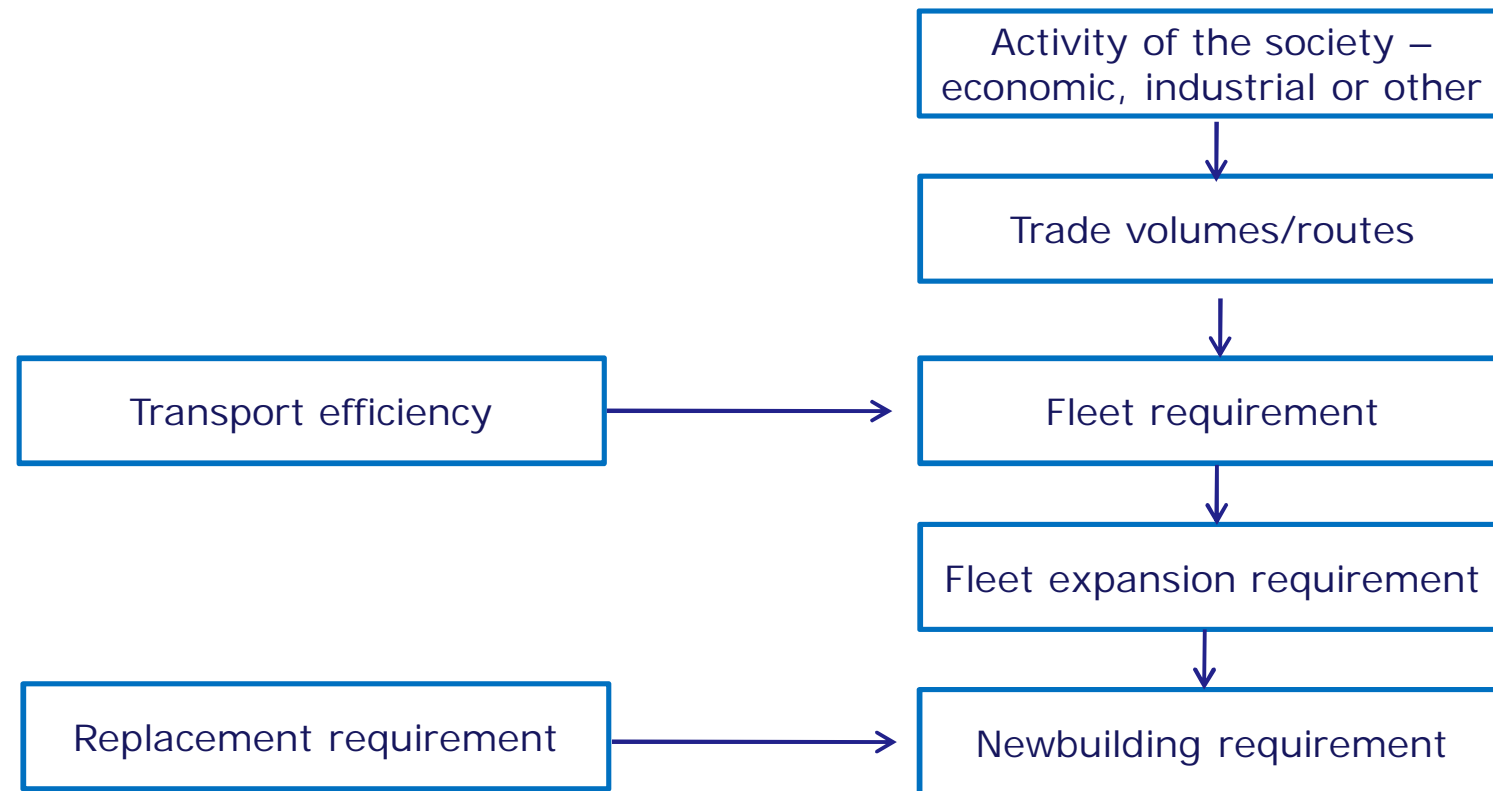
40% of the world's population lives within 100 kilometers of the coast.

90% of all trade is transported by sea

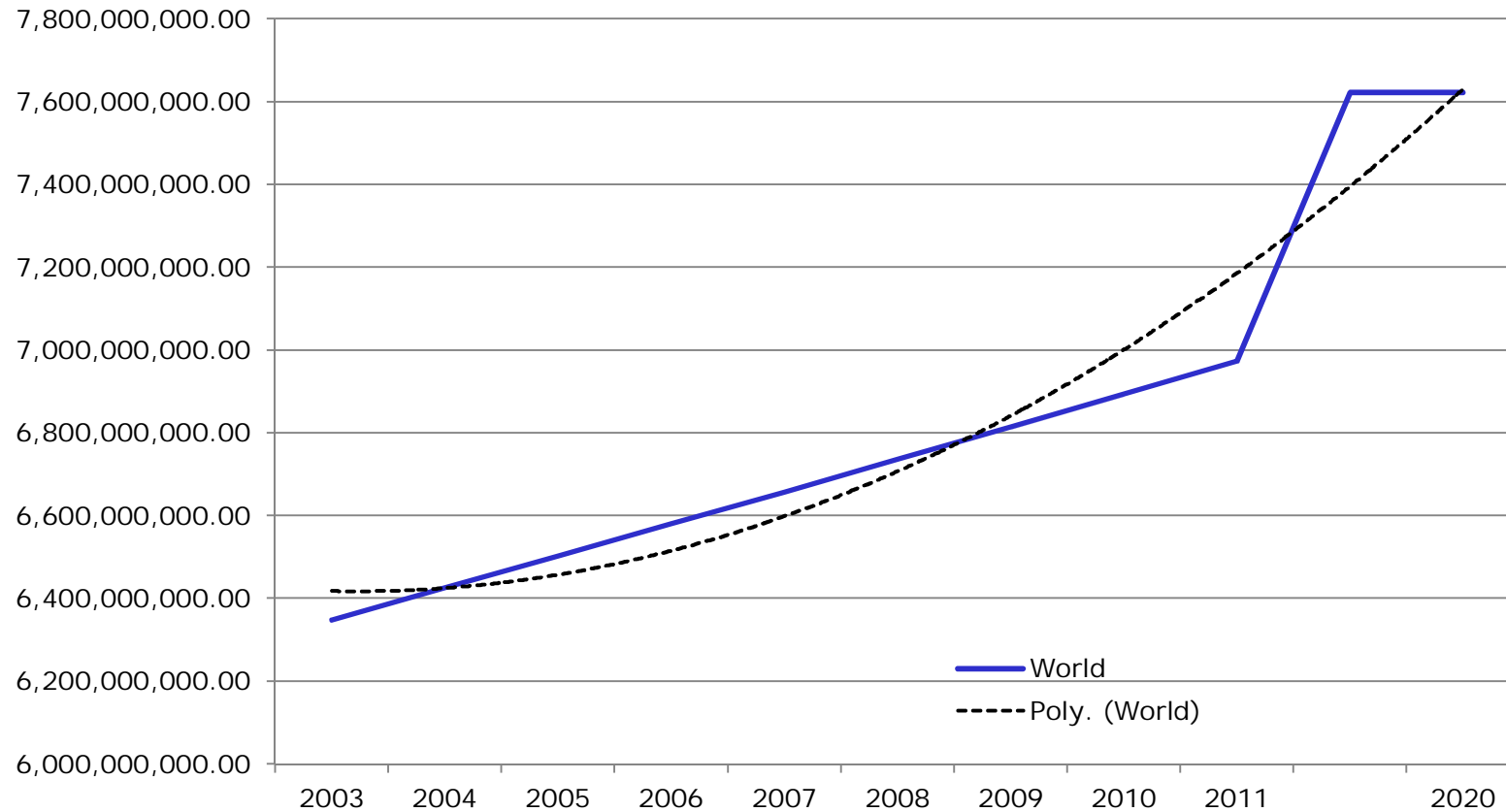
The future will need maritime knowhow on how to use the SEA



Basic Forecasting Methodology



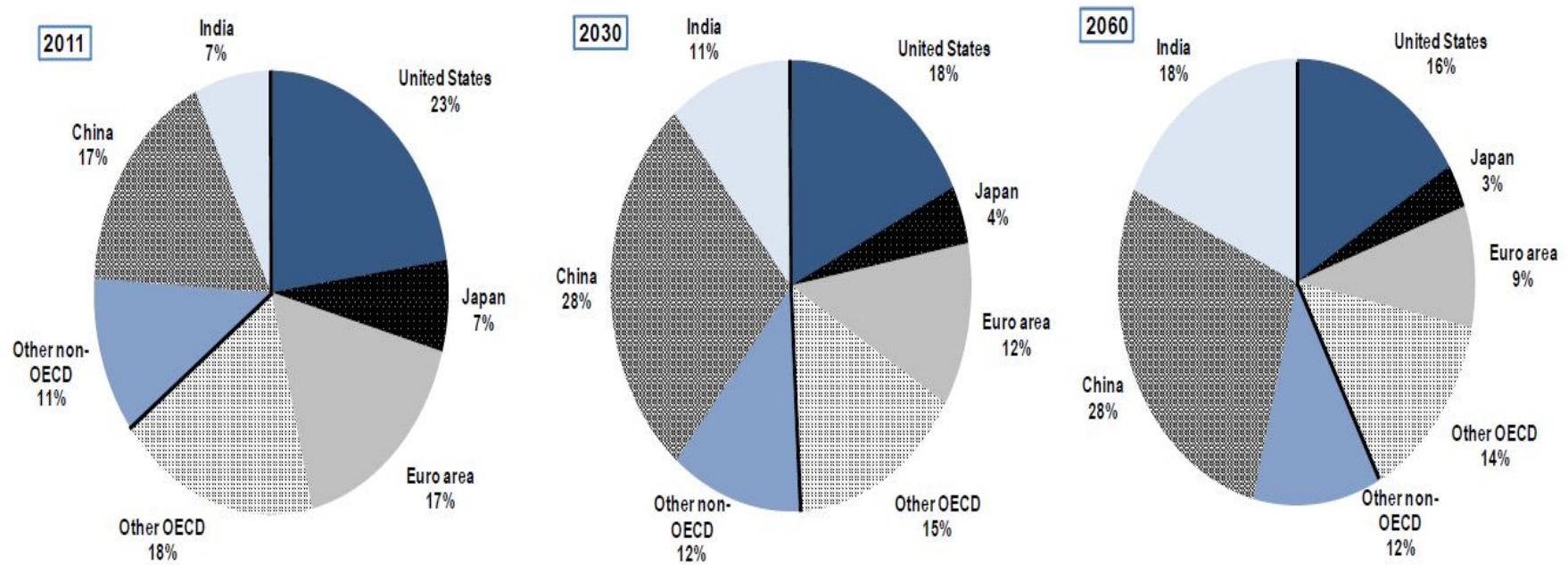
World population 2003 -2020



Source: World bank

Figure 8. There will be major changes in the composition of global GDP¹

Percentage of global GDP in 2005 PPPs



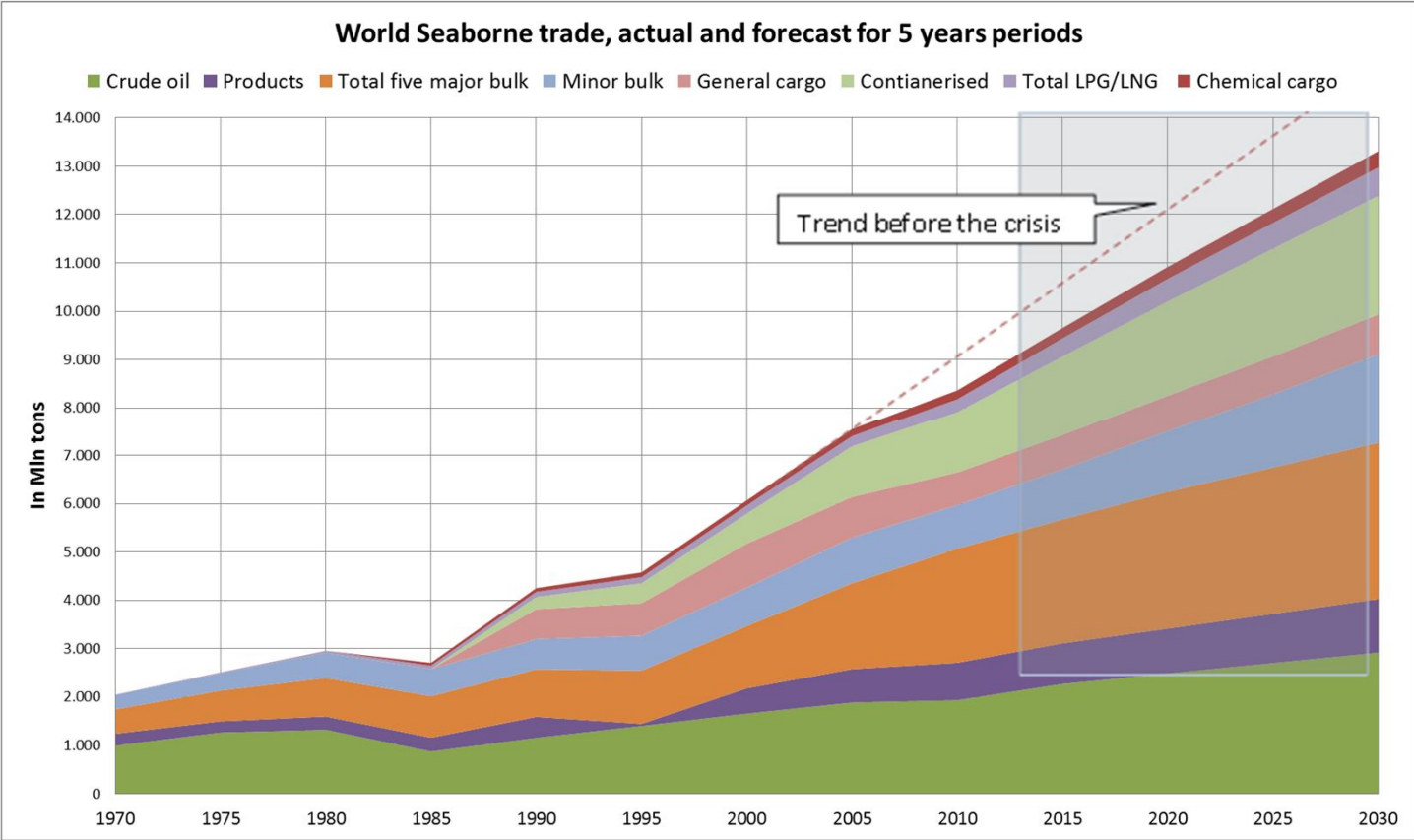
1. Global GDP is taken as sum of GDP for 34 OECD and 8 non-OECD G20 countries.



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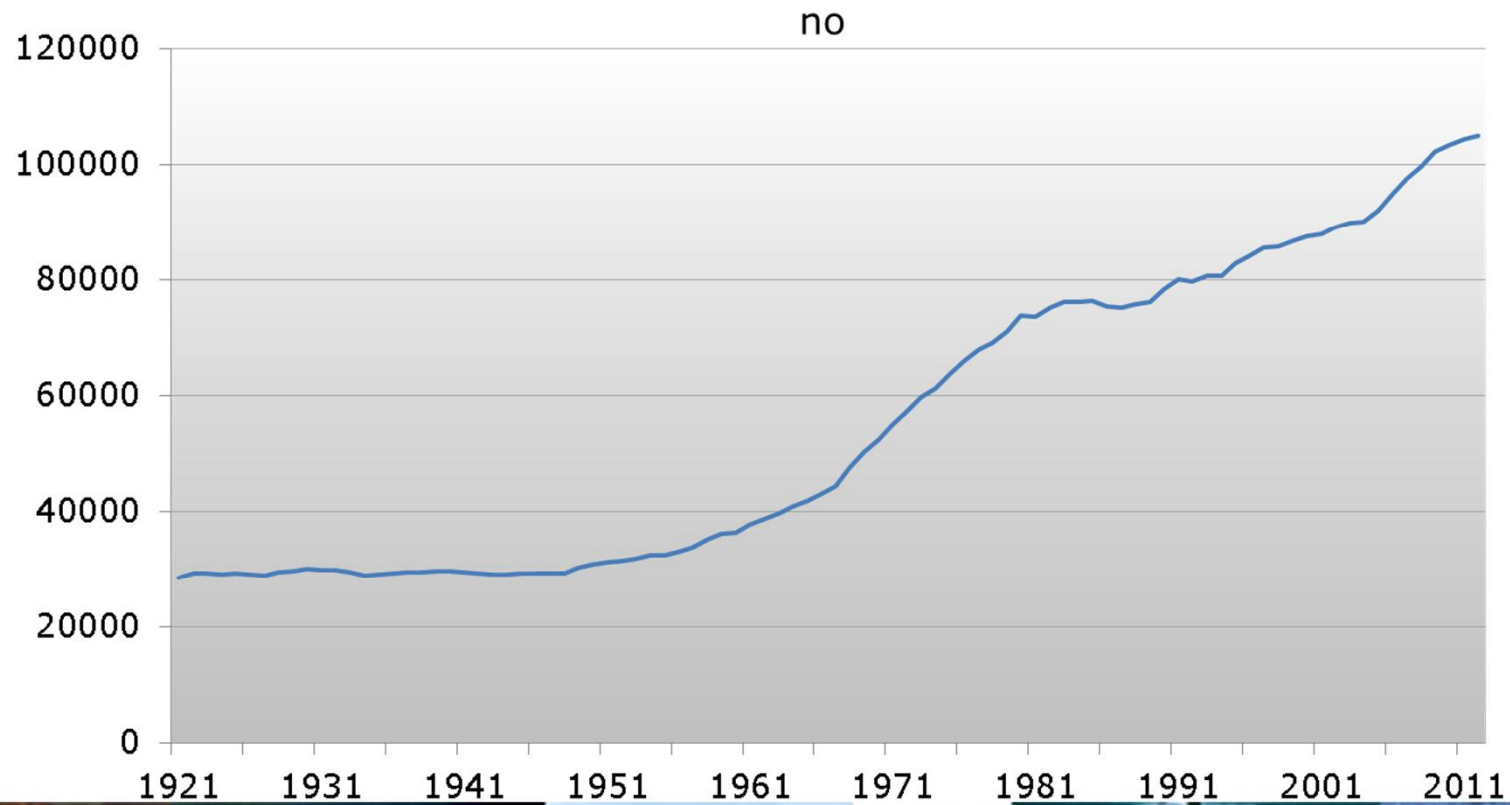
World Economic Growth Forecast 2014-2030 (pct. Pa.) in PPP (Base Case)

Area	2014 (IMF)	2015-2020	2021-25	2026-30
United States	2,77%	2,30%	2,10%	1,80%
Canada	2,30%	2,40%	2,30%	2,30%
Mexico	2,99%	3,50%	3,50%	3,60%
North America	2,75%	2,39%	2,22%	2,03%
West Europe	1,57%	1,80%	1,80%	1,90%
East Europe	2,74%	2,70%	3,50%	3,50%
OECD Europa	1,66%	1,86%	1,92%	2,02%
Japan	1,35%	1,00%	1,50%	1,50%
Korea	3,71%	3,50%	3,00%	3,00%
Australasia	2,70%	2,80%	3,40%	3,40%
OECD Pacific	2,08%	1,86%	2,19%	2,23%
Total OECD	2,23%	2,12%	2,12%	2,06%
Latin America	2,36%	4,30%	4,70%	5,10%
Africa	4,32%	5,60%	6,30%	6,90%
Middle East	3,26%	3,80%	3,50%	3,20%
South Asia	5,21%	6,30%	6,45%	6,60%
South East Asia	4,68%	5,40%	5,20%	4,50%
China	7,54%	6,90%	5,90%	4,00%
Hong Kong	3,75%	3,80%	3,50%	3,50%
Developing Asia	6,34%	6,40%	5,85%	4,60%
Developing Countries Total	3,16%	6,15%	5,43%	4,85%
Non-OECD Europe	2,02%	3,50%	3,50%	3,50%
Former Sovjet Union (FSU)	2,05%	2,90%	4,20%	5,00%
Transisition Economy	2,05%	2,98%	4,00%	4,60%
World	3,52%	4,36%	3,92%	3,73%

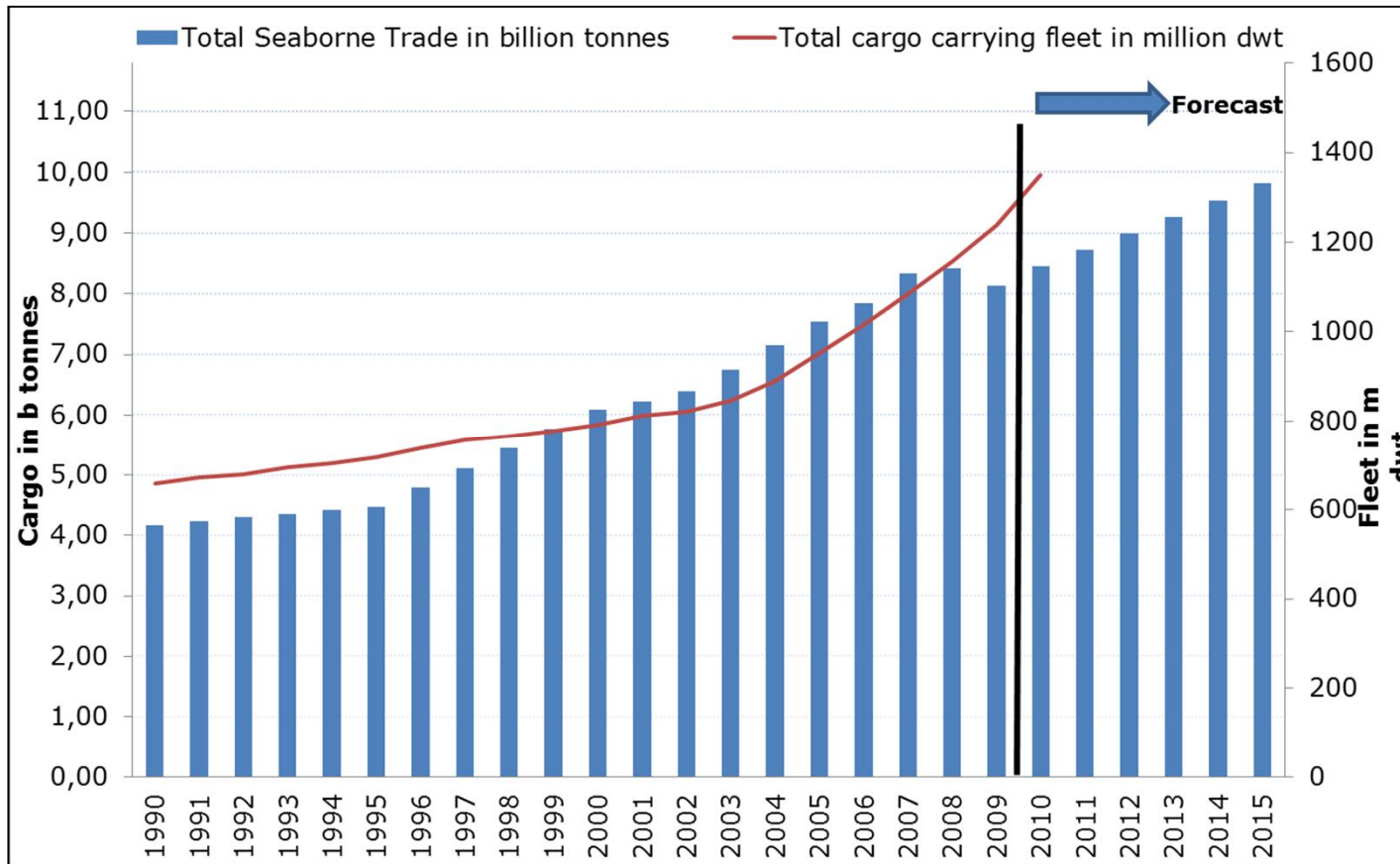


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The World Fleet 1925-2012



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Turning the existing fleet greener

A simple calculation

- There is about 25.000 Containerships, Bulk carriers, Tankers and RoRo vessels on the water
- If 50% of them are retrofitted with relevant retrofit packages the fuel saving per transported cargo is about 30- 35 million tonnes of fuel
- The accumulated fuel savings per year would be approximately 20 billion USD per year
- The cost of doing the retrofits would be around 30 billion USD
- 33 million tonnes of fuel equals 100 million tonnes of CO2
- CO2 saving for 1 MW wind turbine is approximately 2600 tonnes per year
- If the shipping community does not retrofit these vessels, the world would have to invest in more than 40.000 MW wind turbines to compensate



12.000 retrofits

30 billion USD

CO2 savings per year:
100 million tonnes

40.000 MW

60 billion USD

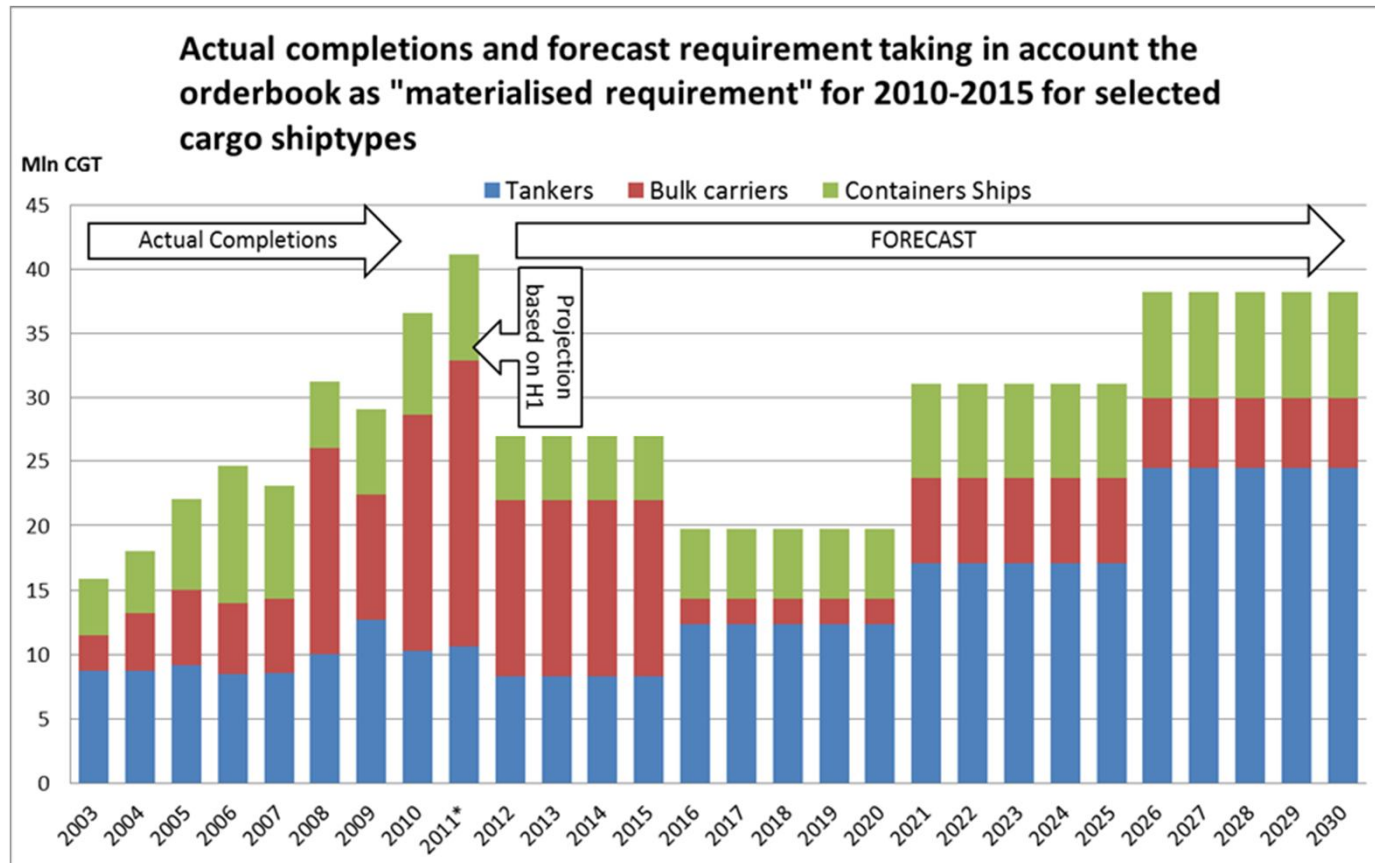
CO2 savings per
year: 100 million
tonnes



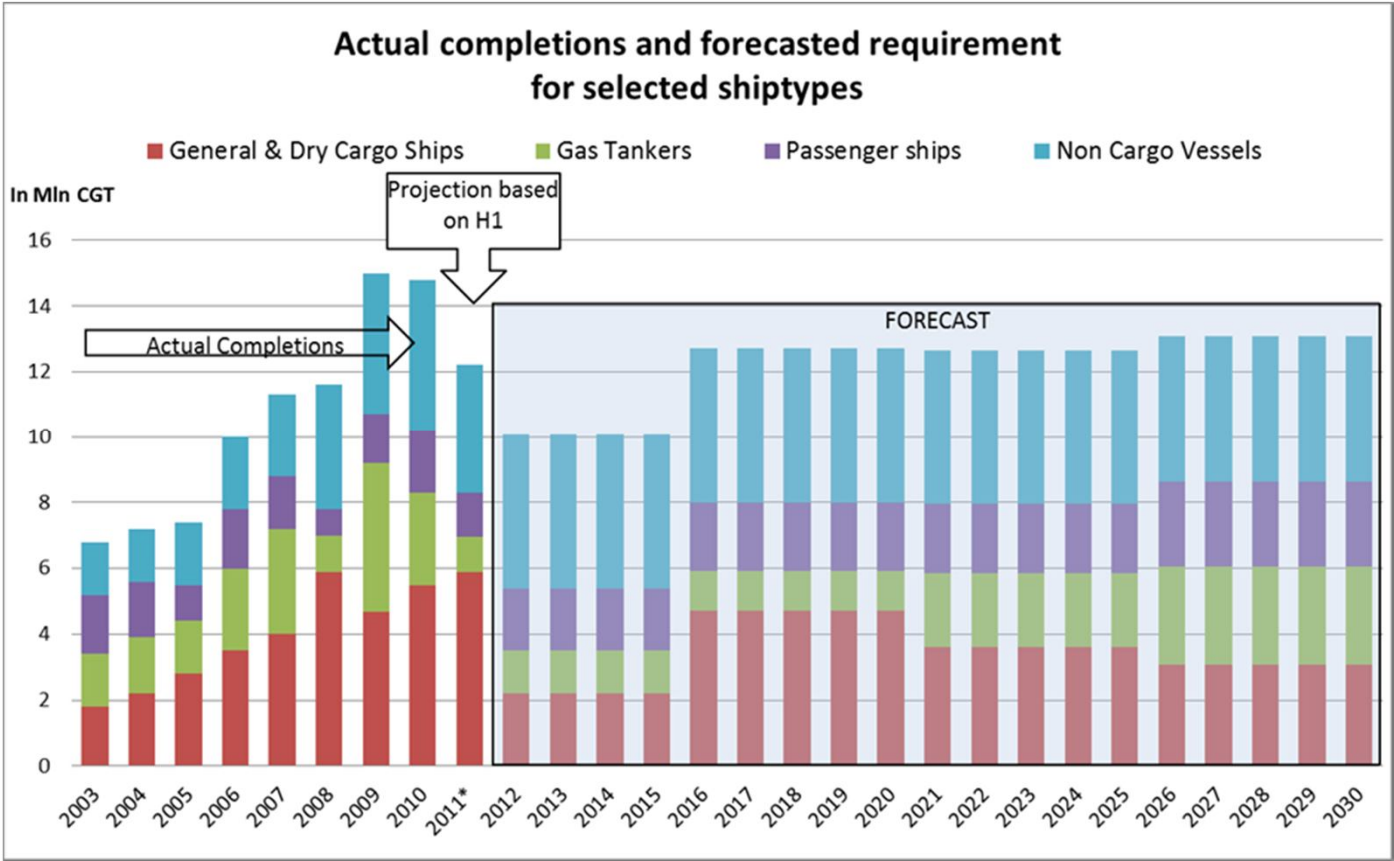
International shipbuilding forecast

Comparison of newbuilding requirement forecast by organisations				(mil gt)
	CANSI	CESA	KOSHIPA	SAJ
2009 – 20 pa	56.4	54.3	59.0	54.0
2020 – 25 pa	72.5	63.5	67.1	53.5
2025 – 30 pa	71.4	78.8	81.0	61.4
2009 – 30 pa	64.2	63.7	66.0	55.7



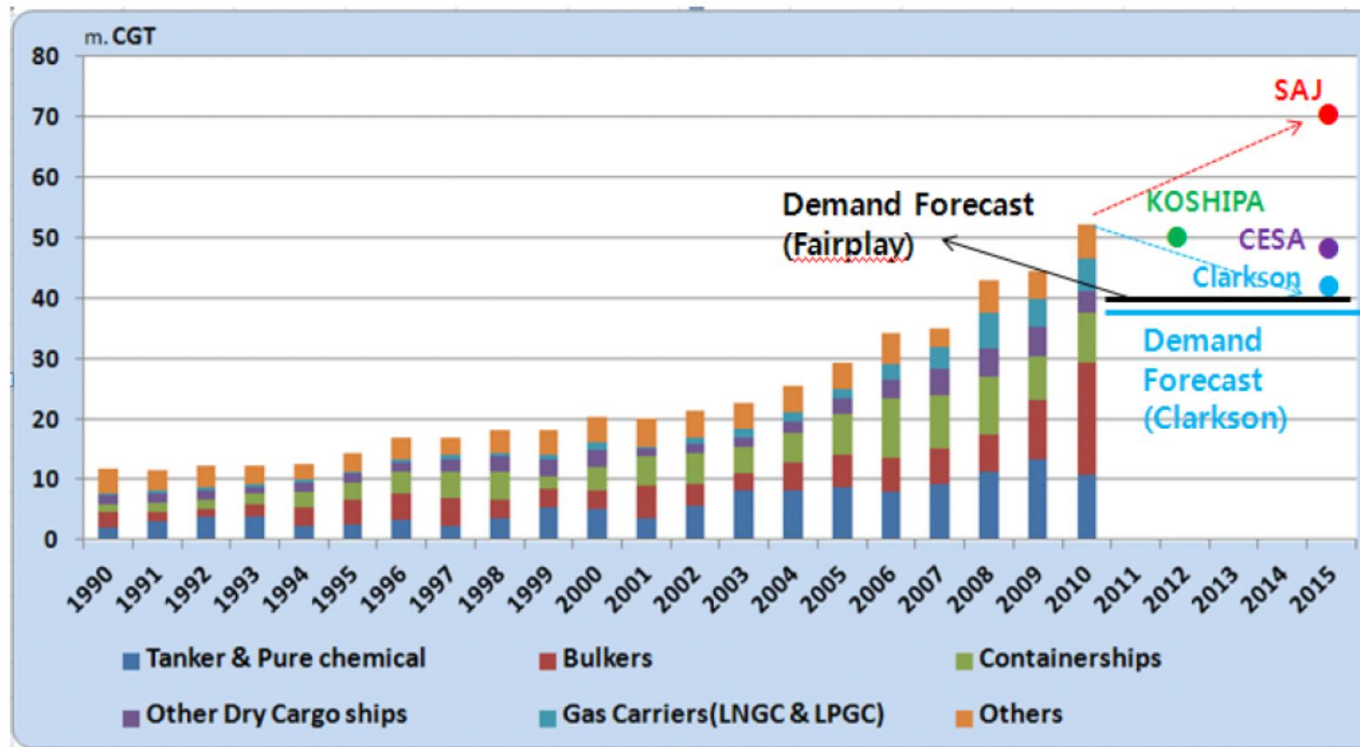


Danish Maritime - Quality Solutions



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Shipbuilding overcapacity



Source: KOSHIPA

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