

# Presentation on:

# VLCV – Challenges for Ports and Hinterland Infrastucture

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The German Society for Maritime Technology Schiffbautechnische Gesellschaft e.V.

### **ULCV - Challenges for Port and Hinterland Infrastructure**

## 6<sup>th</sup> International Conference Hamburg of Ship Efficiency 25<sup>th</sup> September 2017

# Gunther Bonz President of Feport, EUROGATE Container Terminal Hamburg



### **Few facts regarding FEPORT**

- Founded in 1993, FEPORT is the European organisation which represents the interests of the terminal operators and stevedoring companies located out of the seaports of the European Union.
- Feport's membership consists of national and regional sector associations in EU Member States, EFTA and accession countries. In addition, in view of the importance of many recent policy developments, many of the main European terminal operators have joined directly as associate members.
- FEPORT Secretariat ensures that the common interests of terminal operators are heard at European level and that FEPORT members are well informed of developments at European level.



### Few facts regarding FEPORT

### **Country members:**

Belgium, Denmark, Estonia, Finland, France, Germany, Ireland, Italy, Lithuania, Malta, The Netherlands, Portugal, Romania, Spain, Turkey, Cyprus.

On a country basis, we have a representation of around 1200 companies ie around 80 to 85% of the EU terminal operators who employ more than 200.000 port workers.

### **Company members:**

APMTerminals, Hutchison Europe, DP World, Perrigault SA/Terminaux de Normandie, HHLA, Contship Italia, BLG Logistics, Eurogate, Terminal Link/CMA CGM, GMP, PSA HNN, Europe Terminals, Noatum, Burke Shipping, Luka Koper.

FEPORT members have invested more than 25 Billion Euros over the last 10 years





EUROGATE Container Terminal Operator

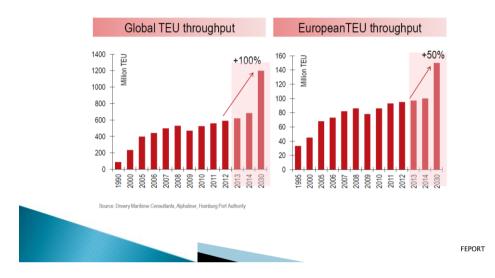


# EUROGATE Container Terminal Hamburg



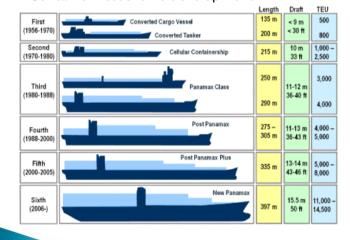


### Port TEU Throughput continues to rise



# Ever-changing market

### Container vessel size development



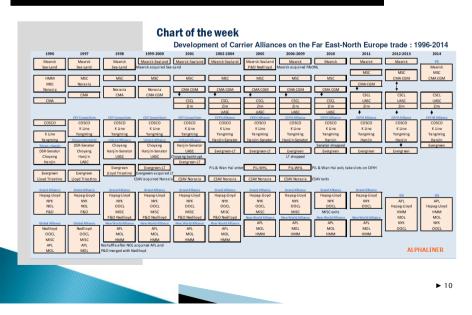
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# Ever-changing market



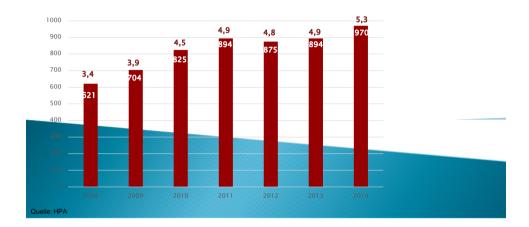
# Alliances (since1996)



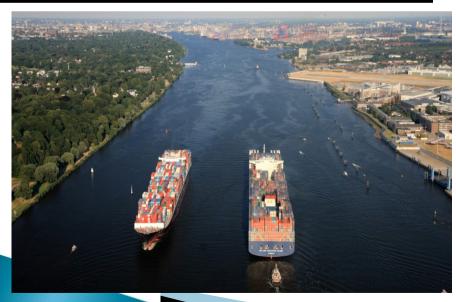
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### Developement of vessel size in the port of Hamburg

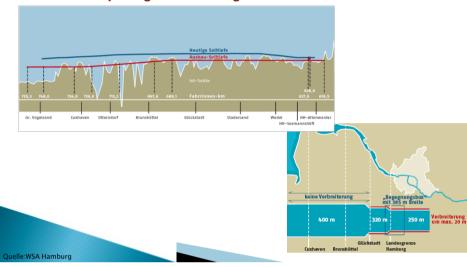
Ultra-Large-Vessels in Hamburg (length >330 m or width > 45 m) per day



# Challenge: requirements for bypassing



### Further deepening and widening of the River Elbe



Infrastructure
Terminal Operator: Superstructure
Challenge: new technical requirements,
new investments

Port Authority: owner of land and quaywall,

prolongation of contracts/concessions



# Challenge: Peaks

- > 2010: 3.000 moves per call,
- 2 vessels per day
- (5-6 days during the week)
- > 2016: up to 11.000 moves per day,
- 2 vessels per day (2-3 days per week )
- 0 vessels (2-3 days)

<u>Challenge:</u> labour shifts, terminal space, hinterland

**FEPORT** 

# CO2 emission comparison of transport mode

# Efficiency factors: Seize Utilisation Propulsion technology Speed Type of fuel Seize 10-120 g 30-50 g Fright vs. Passenger plane on route Frankfurt - Shanghal

# Best Practice in EU-Ports

- Copenhagen
  - Introduction of eco-driving reduces fuel consumption by 12% p.a.
- Rotterdam
  - Dutch program "Lean and Green" reduces carbon emission by 21% / TEU (2009-2013)
- Hamburg
  - By using renewable energy sources and modern technologies savings of 43 mio kWh and a reduction of 47,000t carbon emissions p.a. ("Environmental Partnership Hamburg")

**Example:** Hamburg





