# HAMBURGER HAFEN UND LOGISTIK AG

Decarbonisation @ HHLA Terminals

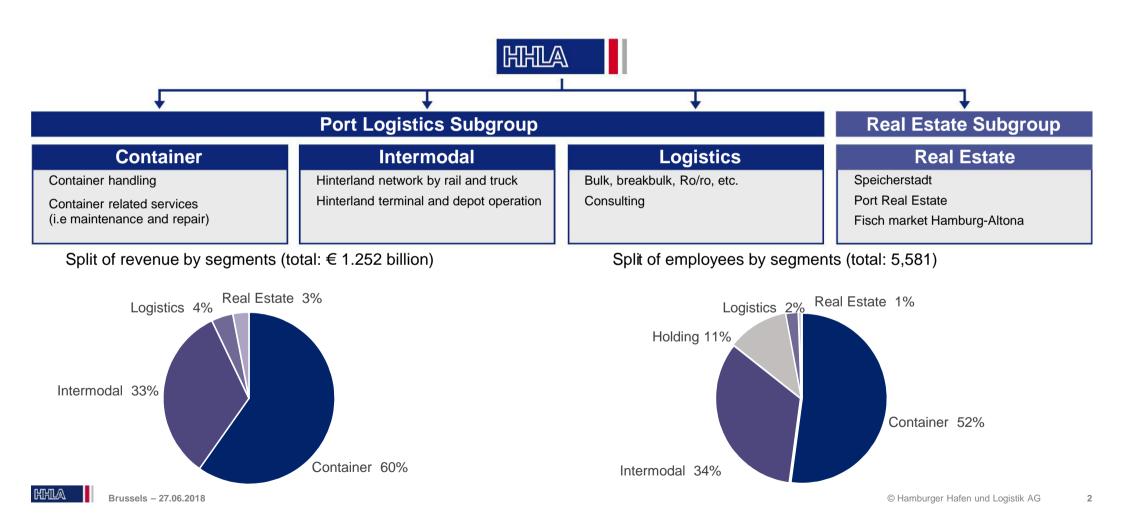
Brussels, 27. June 2018





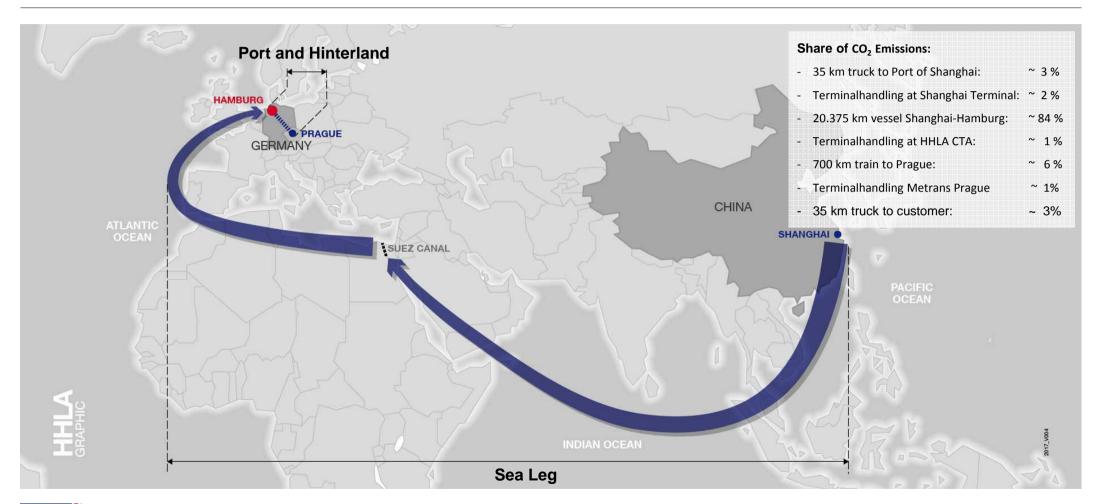
### HHLA – Organisation 2017

#### In 2017 HHLA handled 7,2 mn TEU



## **HHLA Terminals as Part of the Transport Chain**

On the route from Shanghai to Prague the share of CO<sub>2</sub> of HHLA is ~8%

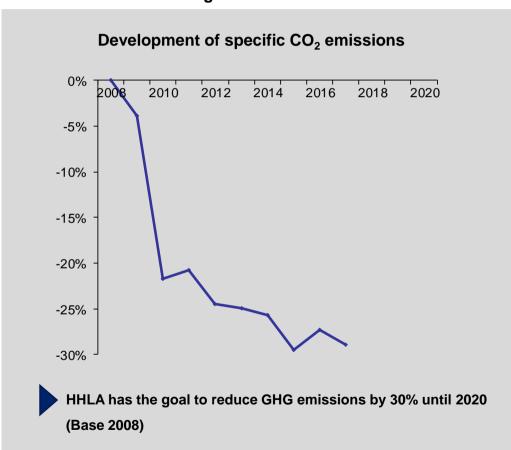


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## **HHLA Sustainability Strategy and Targets**

In 2017 HHLA has already achieved 28,9% reduction of specific CO2 emissions

#### **HHLA GHG Reduction Target**



#### **Three Pillar Sustainability Strategy**

ECOLOGY	SOCIAL ISSUES	ECONOMY
Ecological transport chains	Occupational health and saftey	Business partners
Climate protection/ energy efficiency	HR development	Stockholders
Conserving space	Responsibility in the community	Added value

- We network actively with other logistic players and organize sustainable and environmental friendly transport chains.
- We use all technical sensible and economical justifiable possibilities to reduce CO2 emissions in our business.
- We use the scarce harbour and logistics zones as efficient as possible.
- We keep the environmental intervention as low as possible and are engaged in the conservation of our natural resources

### **HVCC – Hamburg Vessel Coordination Center**

Optimization due to central coordination and big data analysis



If sailing with 14 kn instead of 18 kn

22t bunker savings

66t
less CO<sub>2</sub>-emmissions



### **Terminal Interface to the Shipping Lines**

Alternative power supply for ocean vessels during dwell time

#### **LNG Hybrid Barge**



 HHLA is using the LNG Hybrid Barge in wintertime (in summertime the Barge supplies cruiseships with clean energy)

#### **LNG PowerPacs**



 HHLA is testing this innovative solution from Becker Marine Systems

#### **On Shore Power Supply**

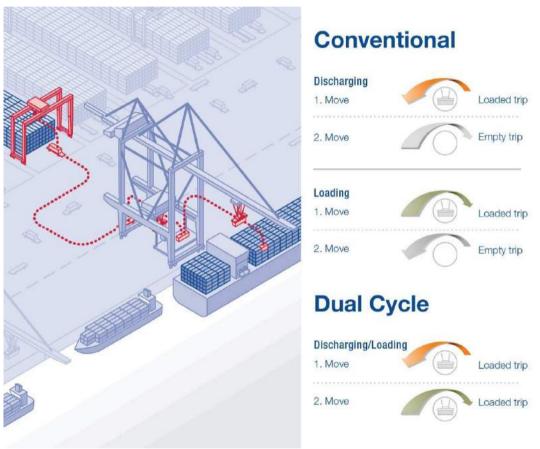


 HHLA is supporting a working group to evaluate possibilities for an on shore power supply at container terminals

## **Terminal Process Optimization**

Combined loading and discharging improves the energy efficiency and minimizes the dwell time

#### **Dual Cycle Technology**

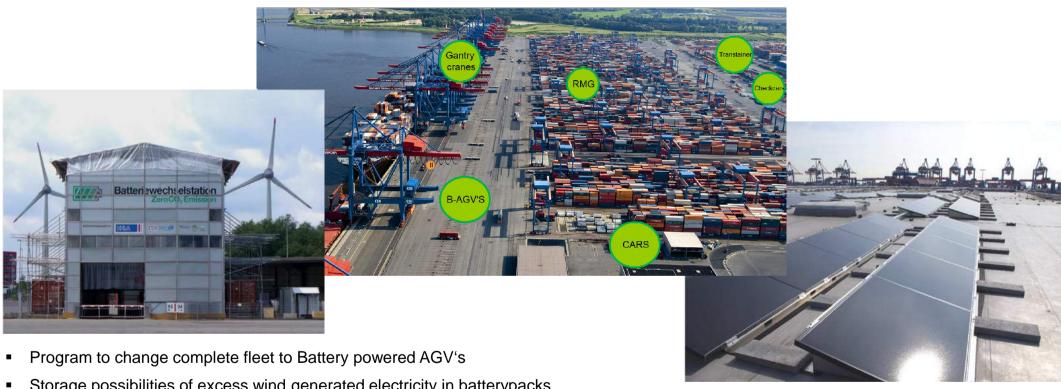


- Current principle: Four moves of bridge for two boxes
- Future principle: Two moves of bridge for two boxes
- No move in vain: Unnecessary empty moves are obsolete
- Advantage: Noticeably more throughput in the same amount of time

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### Substitution of diesel through electrified machines

Decreasing CO<sub>2</sub> emissions and air pollution



- Storage possibilities of excess wind generated electricity in batterypacks
- Reduction of CO<sub>2</sub> emissions by appr. 15.500 tonnes p.a.

Two large Solarplants which produce about 570.000 kWh CO<sub>2</sub> - free power annually

# Thank you for your attention



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