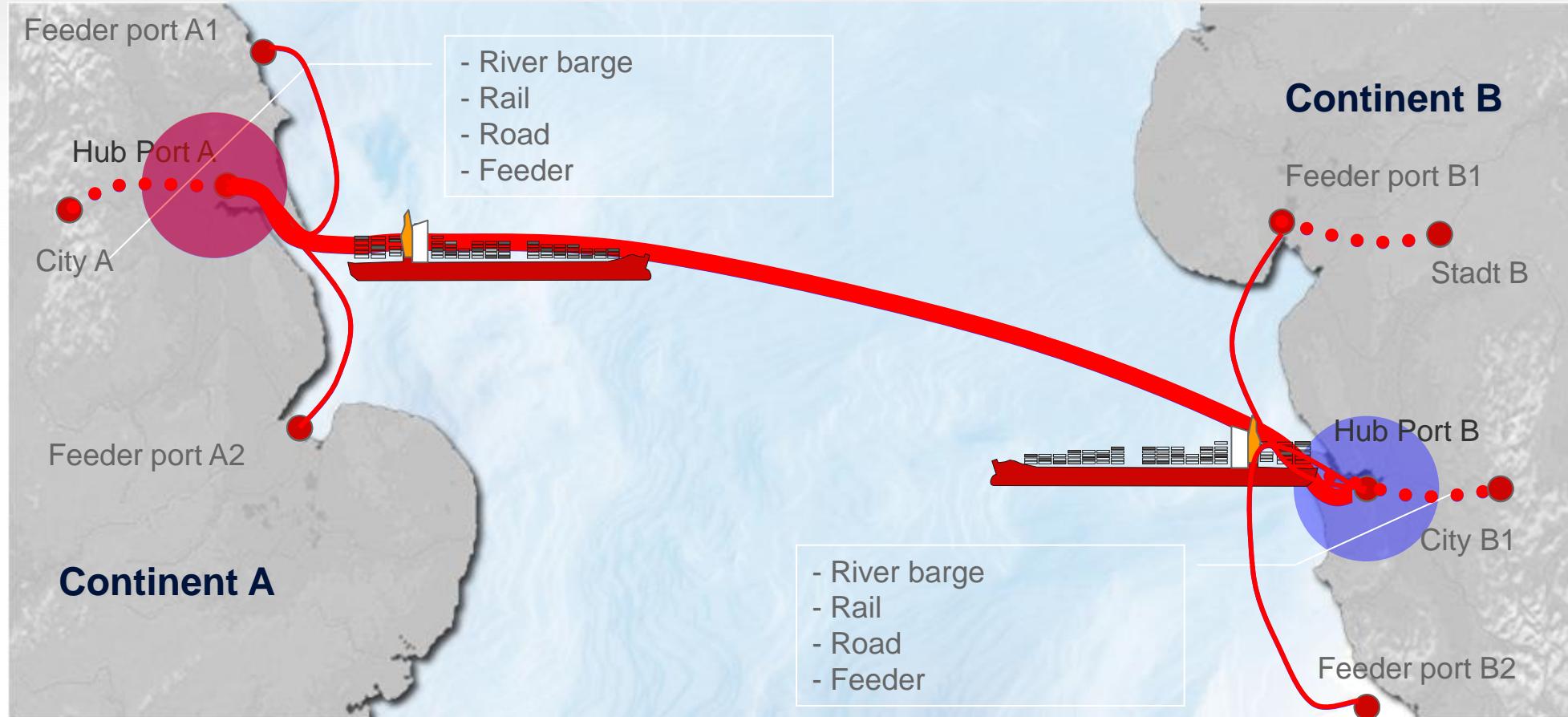


Zboží na cestě k zákazníkovi z pohledu námořního přístavu (aktuální výzvy)

Hafen Hamburg Marketing e.V.
Vladimír Doboš

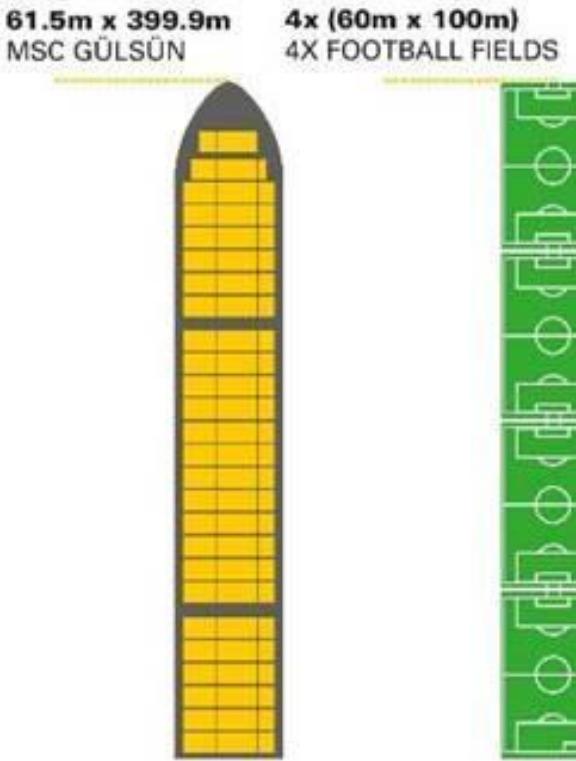


Hub and spoke system

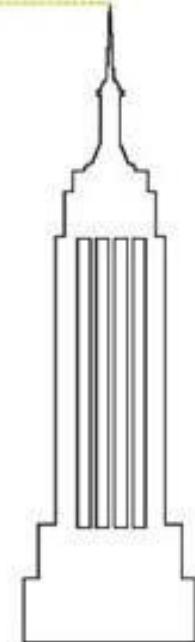


■ Velikost kontejnerových lodí (pozitiva vers.negativa)

IMPRESSIVE DIMENSIONS



381m
EMPIRE STATE BUILDING



324m
EIFFELTOWER



The 23,756-TEU *MSC Gülsün*

400-meter ship has a beam of
61.4 meters

24 rows



Transport peaks in port

Transport peaks triggered by mega-ship calls in the Port of Hamburg

EXEMPLARY PEAK PERIODS TAKING THE EXAMPLE OF A 20,000 TEU VESSEL



These are theoretical values. In reality the number of means of transport will be considerably higher.

■ Driving forces behind current developments in the port



High cargo volumes in limited areas



Larger vessels & cargo loads



Increasing traffic

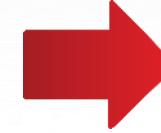


Limited parking areas



Increased environmental awareness

The strategy for intelligent port development



smartPORT energy

Lower energy use and environmental impact

smartPORT

- Efficient use of energy and infrastructures

smartPORT logistics

Optimized supply chain and transportation networks



smartPort – the intelligent port

..... digitální inteligentní systém, který garantuje hladký a efektivní průběh všech přístavních operací. Tento systém, spojující všechny účastníky přístavních činnost, integruje nejmodernější technologie, aktuální informace, analýzy, předpovědi a generuje informace potřebné nejen pro přístavní činnosti, ale i ochraňující životní prostředí. Díky filozofii smart-PORt, se Hamburg Port Authority snaží dosáhnout stálého ekonomického rozvoje při zachování udržitelnosti, při maximálním přínosu nejen pro zákazníky přístavu, ale i lidí žijící ve městě. smartPort je nestále rozvíjen a přizpůsobován aktuální situaci.

■ Context of smartPORT management projects



Ocean transport

Shipping lines, pilots,
ship traffic control, bridges



Environment

Disaster control,
city-port and citizens



Road traffic

Port road management,
drivers, road maintenance



Terminals

Port operators



Rail traffic

Railway companies

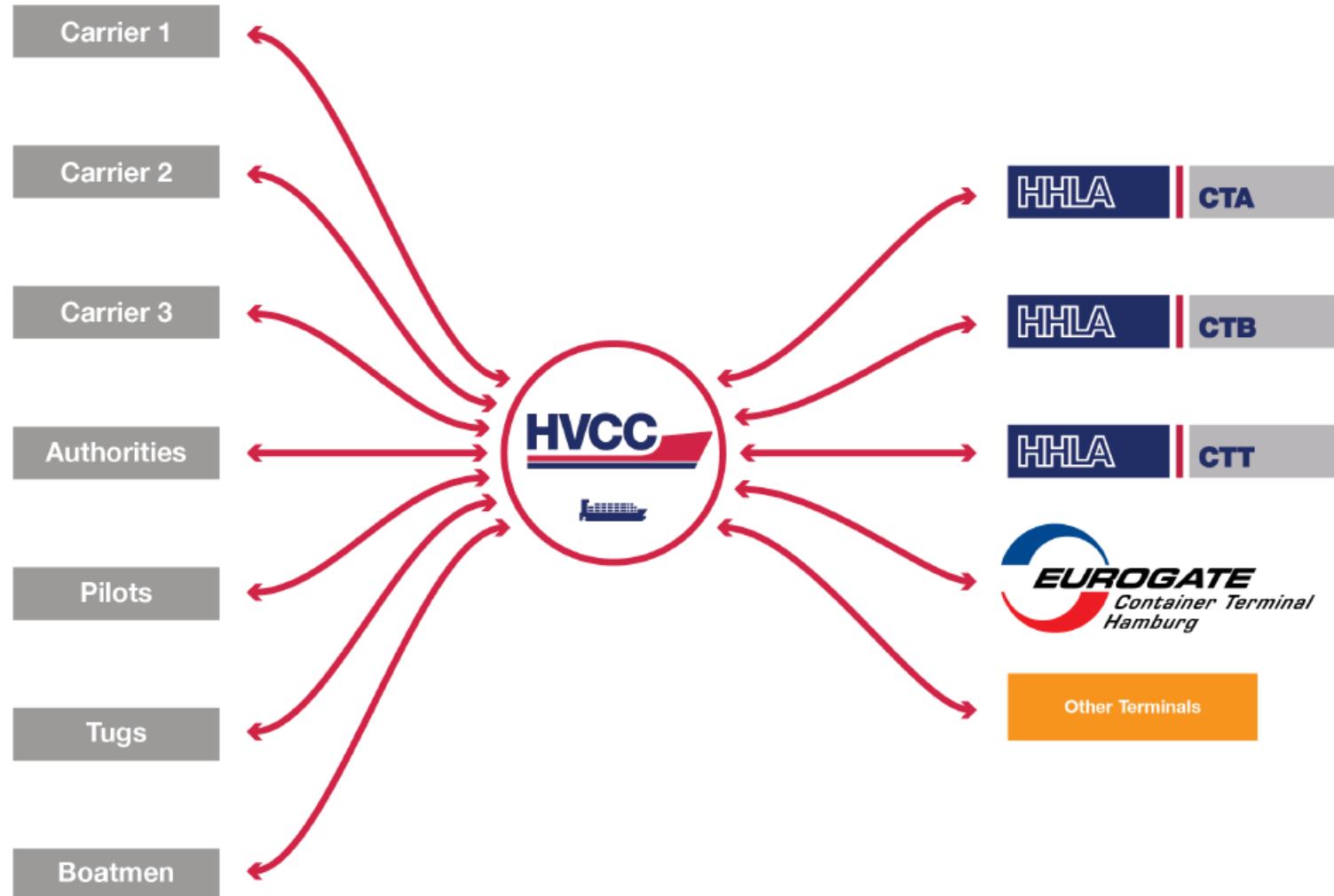


Public authorities

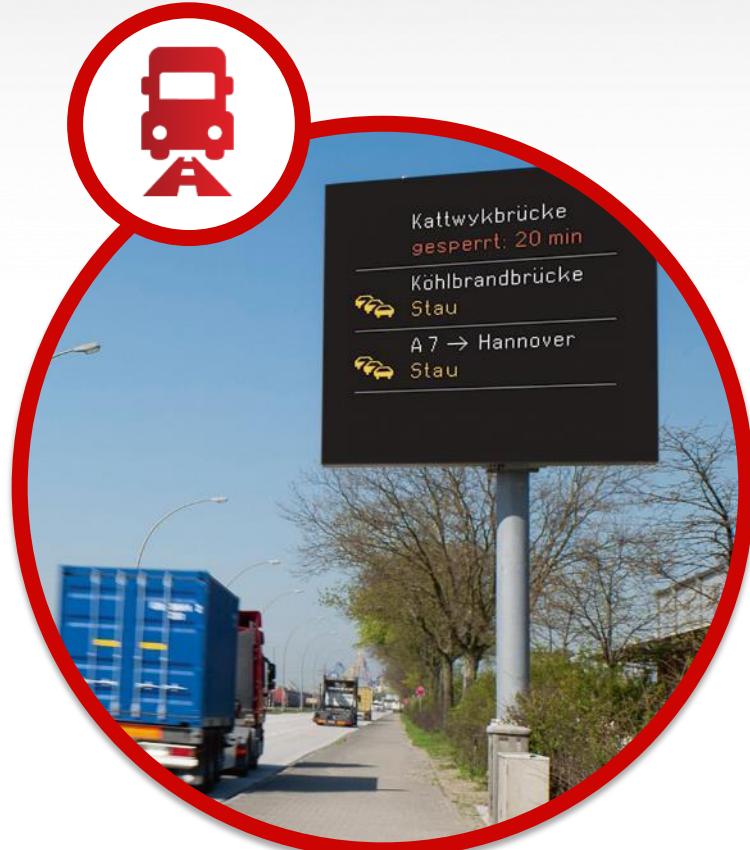
Construction, civil
engineering

HVCC -Hamburg Vessel Coordination Center

Optimization of vessels' port call and utilisation of terminal infrastructure



- Neutral platform and single-point-of-contact for planning of feeder vessels / barges and coordination of port calls and port rotation
- Services
 - Passage & rotation planning
 - Stow planning / Central Planner function within the Port of Hamburg
 - Any ad-hoc changes in rotation and stow planning
 - 24/7 operational
 - Coordination platform with partner interfaces and dashboard solutions



■ Port Road Management

- Traffic control system based on detectors and sensors in the port road network
- optimizes the flow of traffic through intelligent traffic management LED message boards
- dynamic traffic control in case of congestion and to improve use of parking spaces
- reduces fuel consumption and emissions



■ smartPORT Logistics (SPL) App

- Online traffic management application for truck traffic in the port

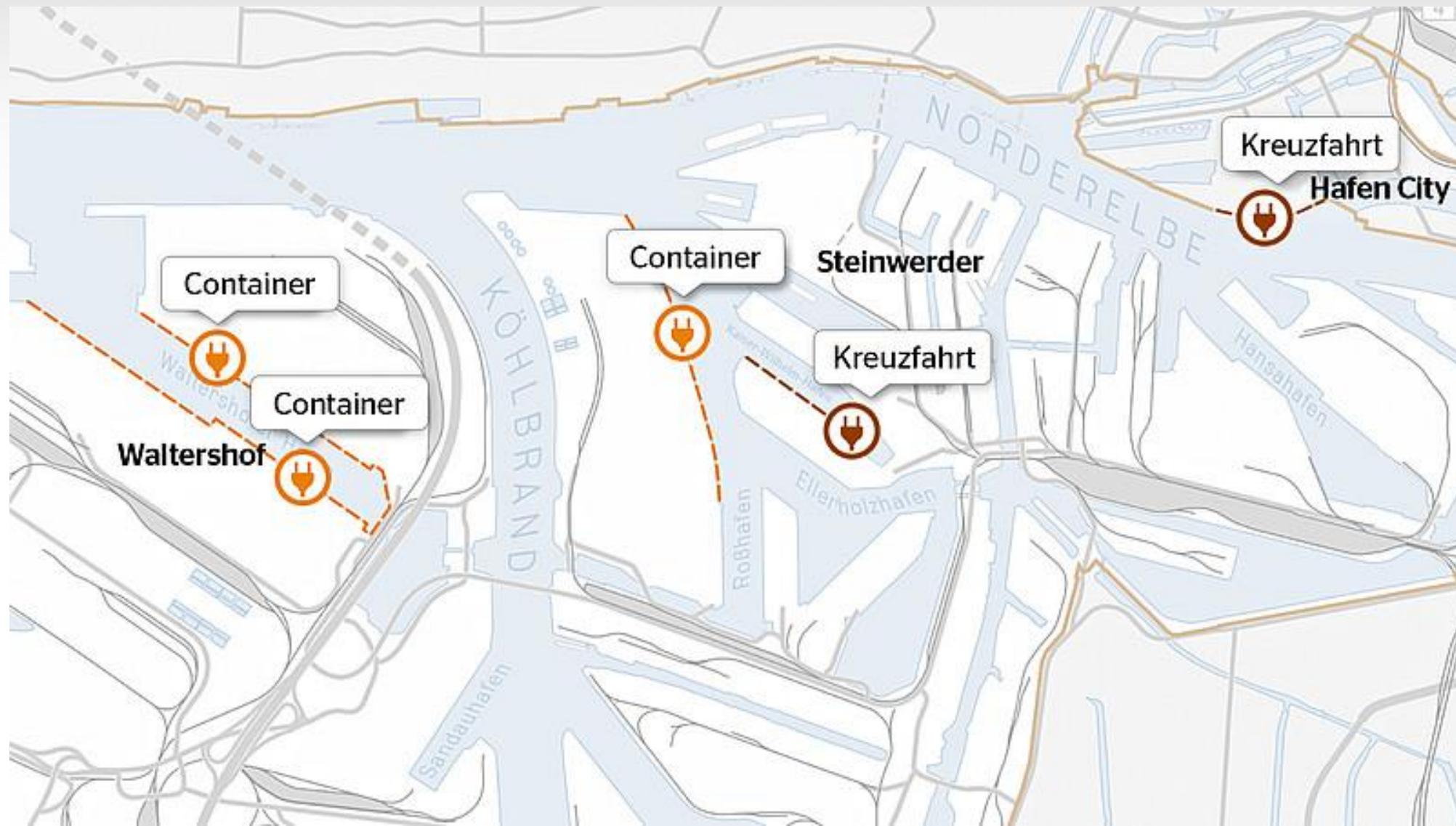
- traffic information
- routing
- expected time of arrival
- information on parking spaces
- information on construction sites
- closure times for moveable bridges
- interfaces for further applications

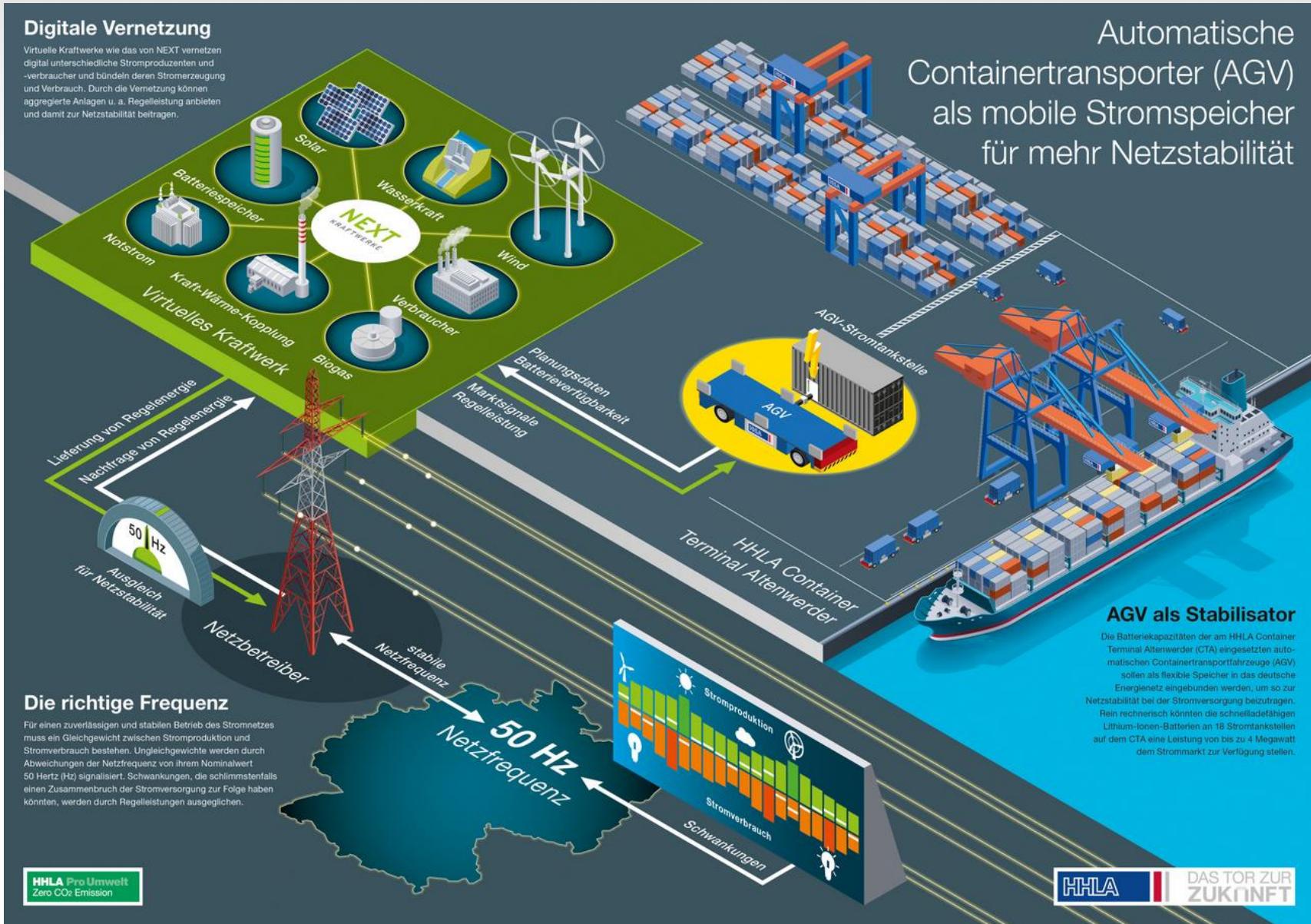


■ smartSWITCH

- Real-time information system to monitor the condition of rails and switches via sensors
- more effective use of the rail infrastructure
- early warning on traffic conditions and malfunctions
- better planning of maintenance
- information system to link all data on railcars and cargo for rail transport companies, Hamburg Port Authority, and terminals

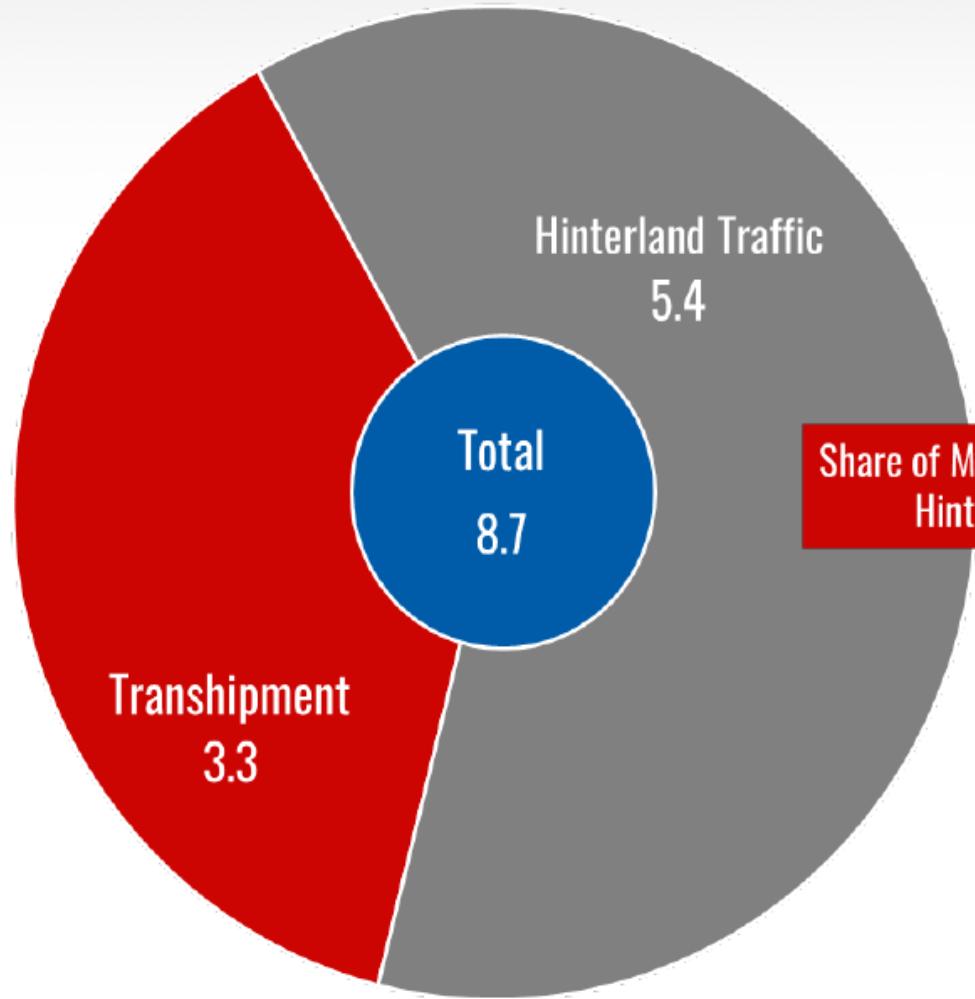
Pozemní dobíjecí stanice pro lodě ... energie z obnovitelných zdrojů



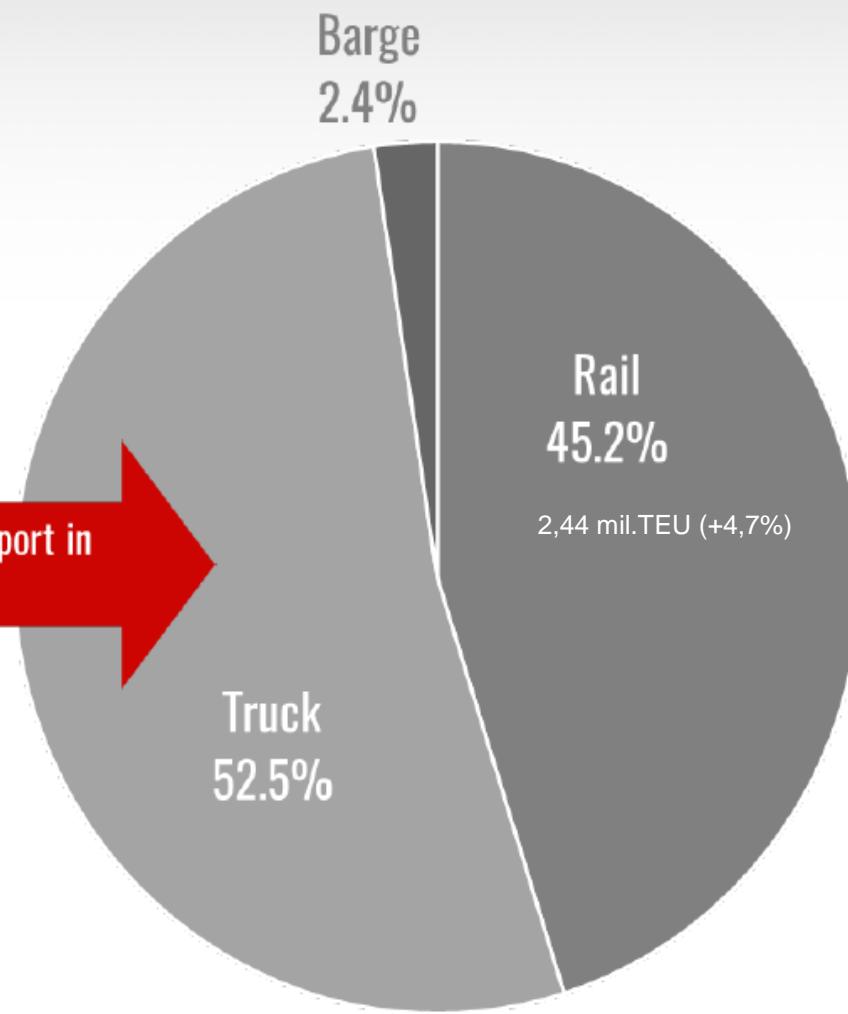


Modal Split in Container Hinterland Traffic

Million TEU



Share of Modes of Transport in
Hinterland Traffic

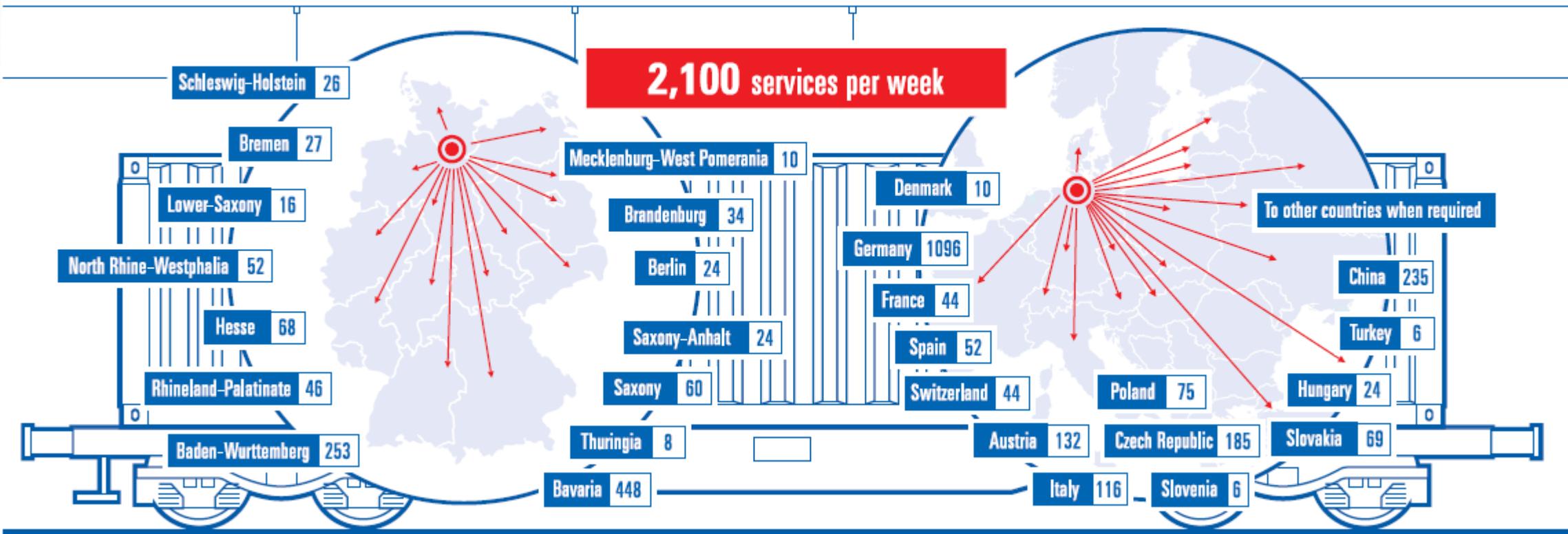


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Possible discrepancy in sum due to rounding

Weekly train connections

Container train connections to and from Hamburg





Blízká budoucnost ... ? Drony





Blízká budoucnost ... ? Hyperloop





Děkuji za pozornost

