

HAMBURG

smartPORT

Lars Anke

www.mediaserver.hamburg.de / Maxim Schulz

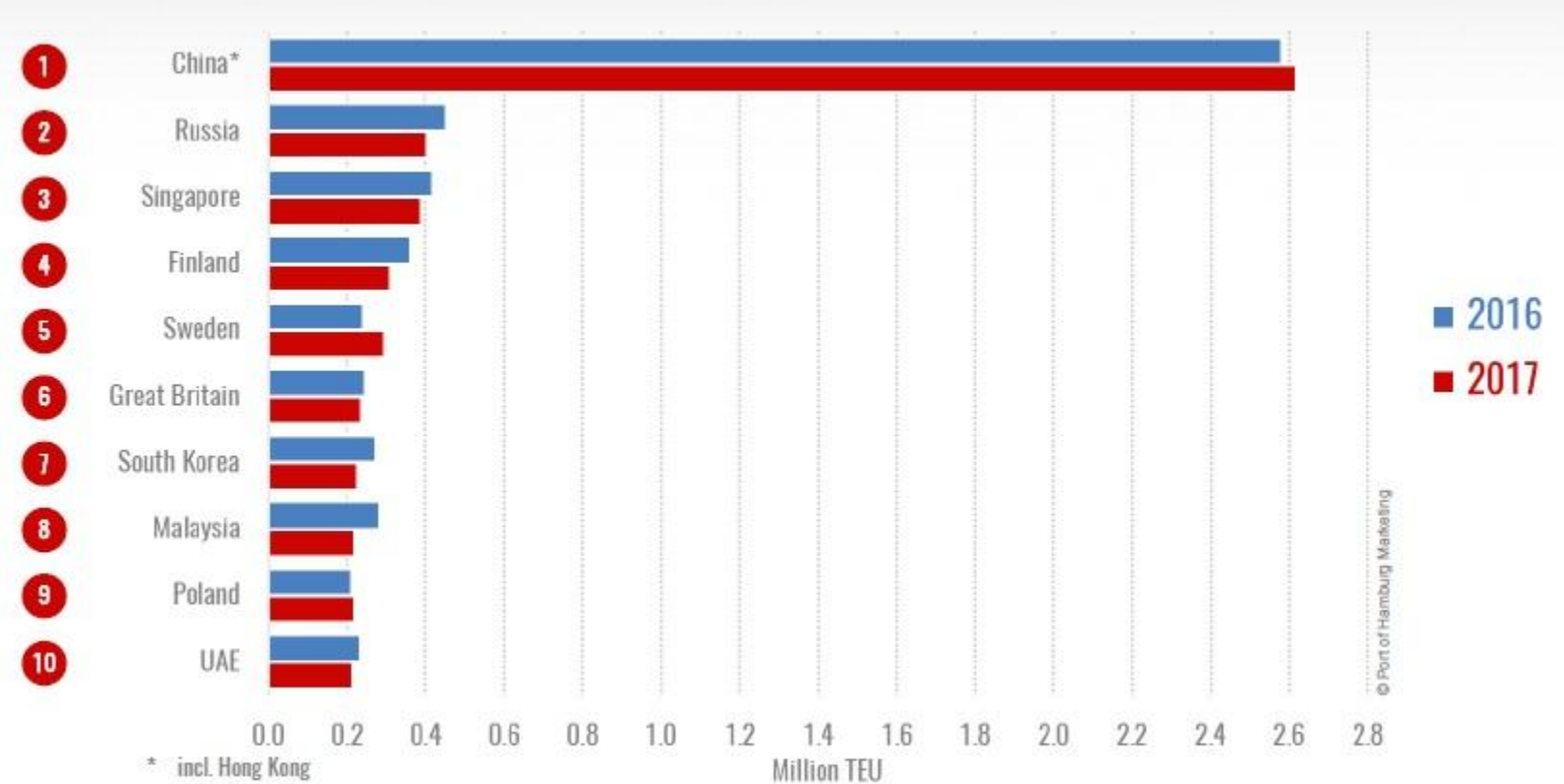
June 14th 2018 | Ningbo

PORT OF HAMBURG

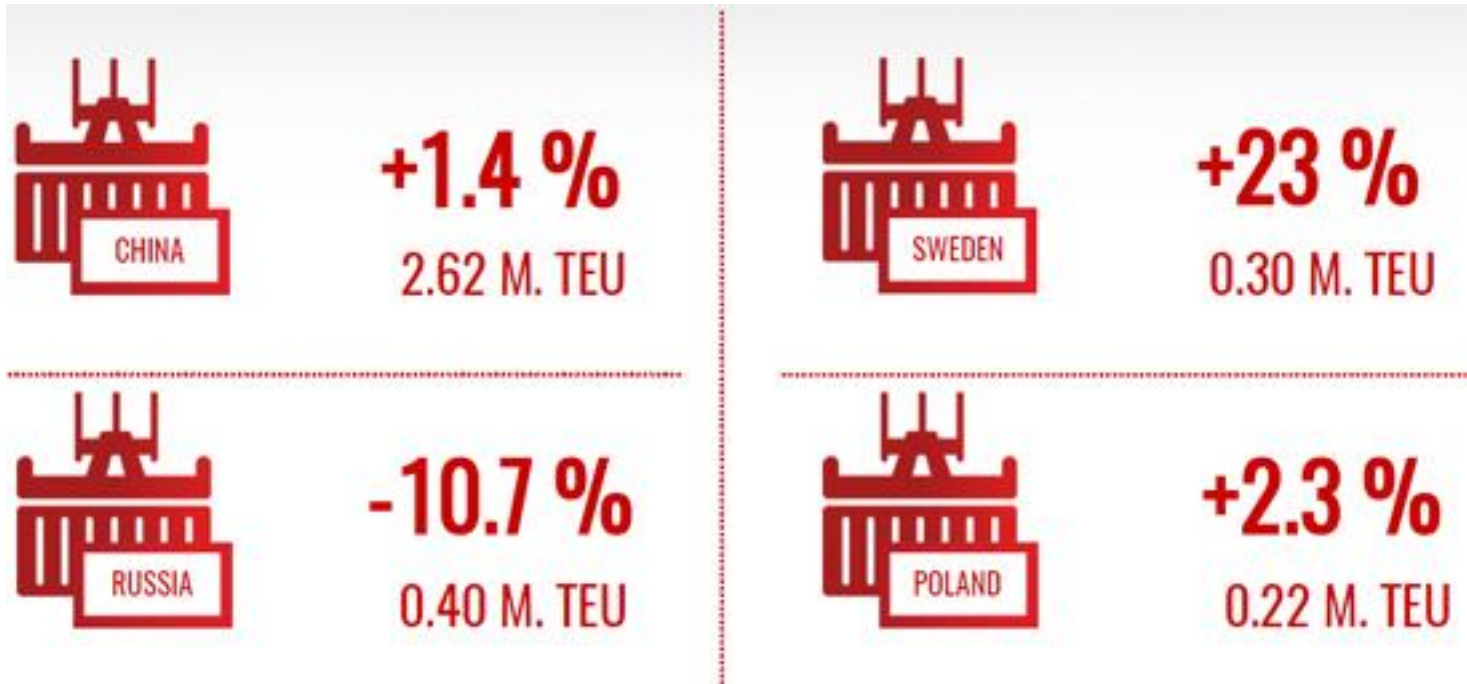
due to its inland location the on-transport is not only faster, it is also less costly



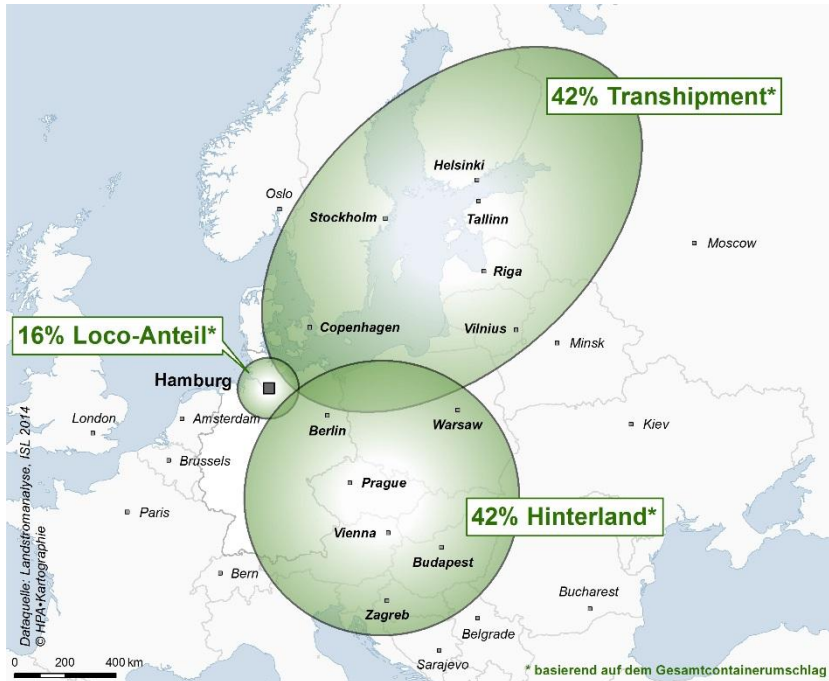
TOP 10 TRADING PARTNERS IN SEABORNE CONTAINER TRAFFIC



TRADING PARTNERS IN SEABORNE CONTAINER HANDLING



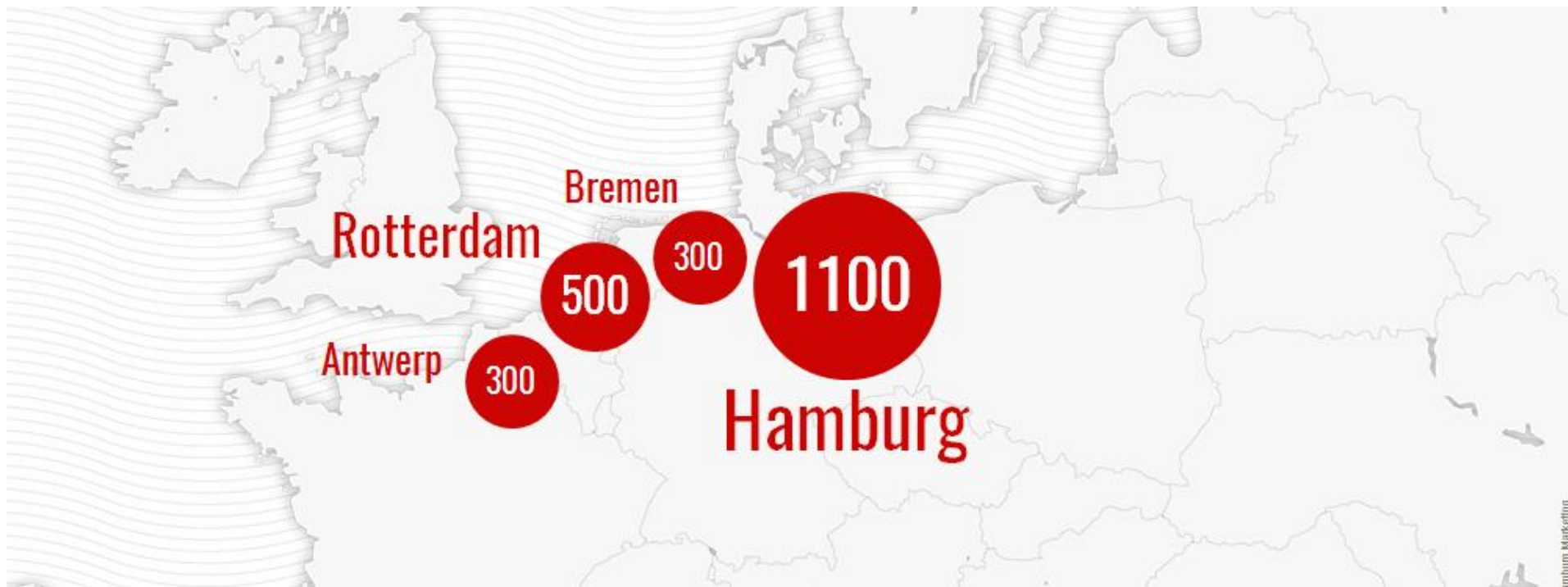
INTERMODAL-CONNECTIONS



Advantages of the Port of Hamburg

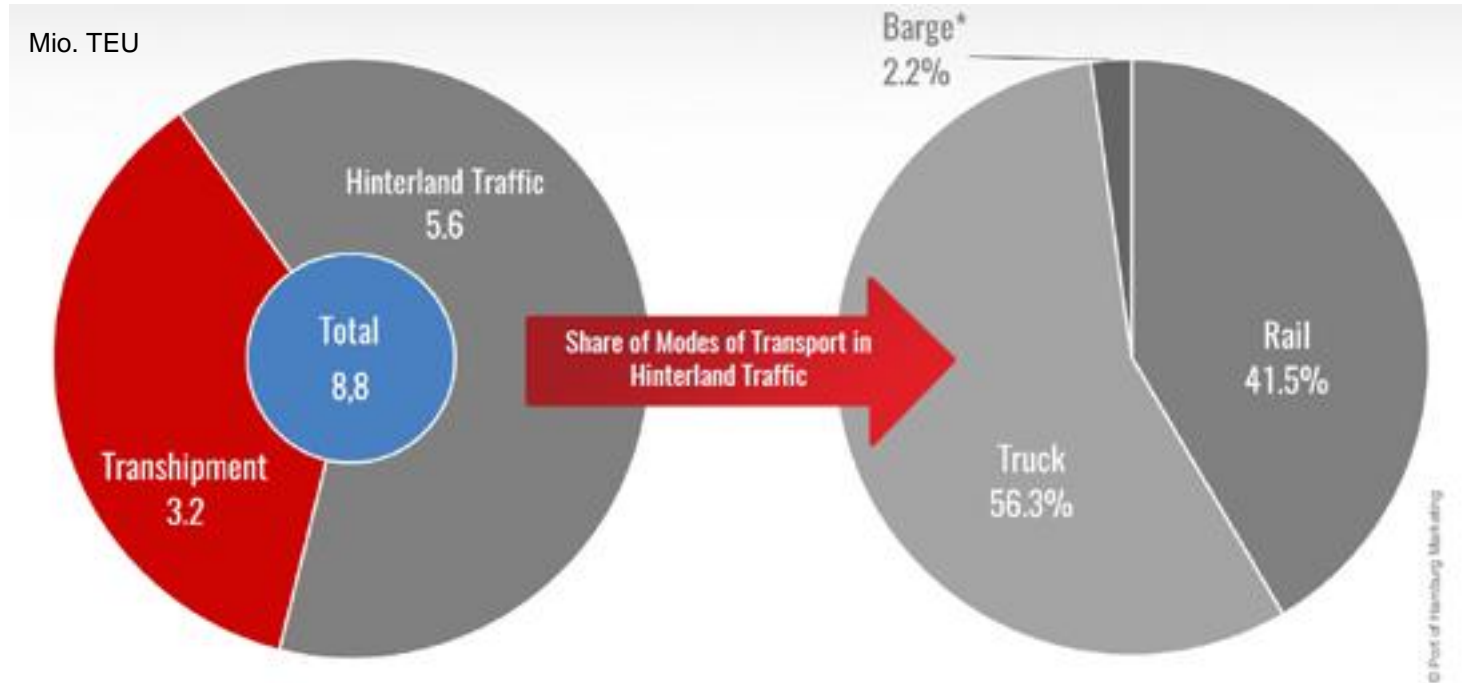
- Maritime link between the emerging overseas markets and the Baltic region
- Favourable position to developing markets in Central and Eastern Europe
- Excellent maritime transport to the hinterland, short road travel, reduction of transport costs and carbon footprint
- Metropolitan region as a local market, wide range of maritime services, modern infrastructure and efficient transport connections by sea, road and rail

转运和腹地连接：
每周多式联运中的火车运输



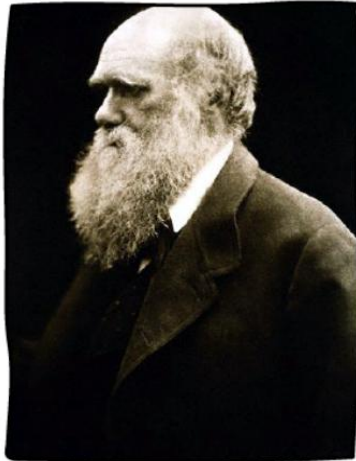
汉堡是欧洲最大的综合运输港

MODAL SPLIT



HAMBURG'S ADVANTAGES: SMARTPORT

The ability to adapt rapidly to change will be a key performance indicator for successful ports



“It is not the strongest of the species that survive, nor the most intelligent. It is the one that is most adaptable to change.”

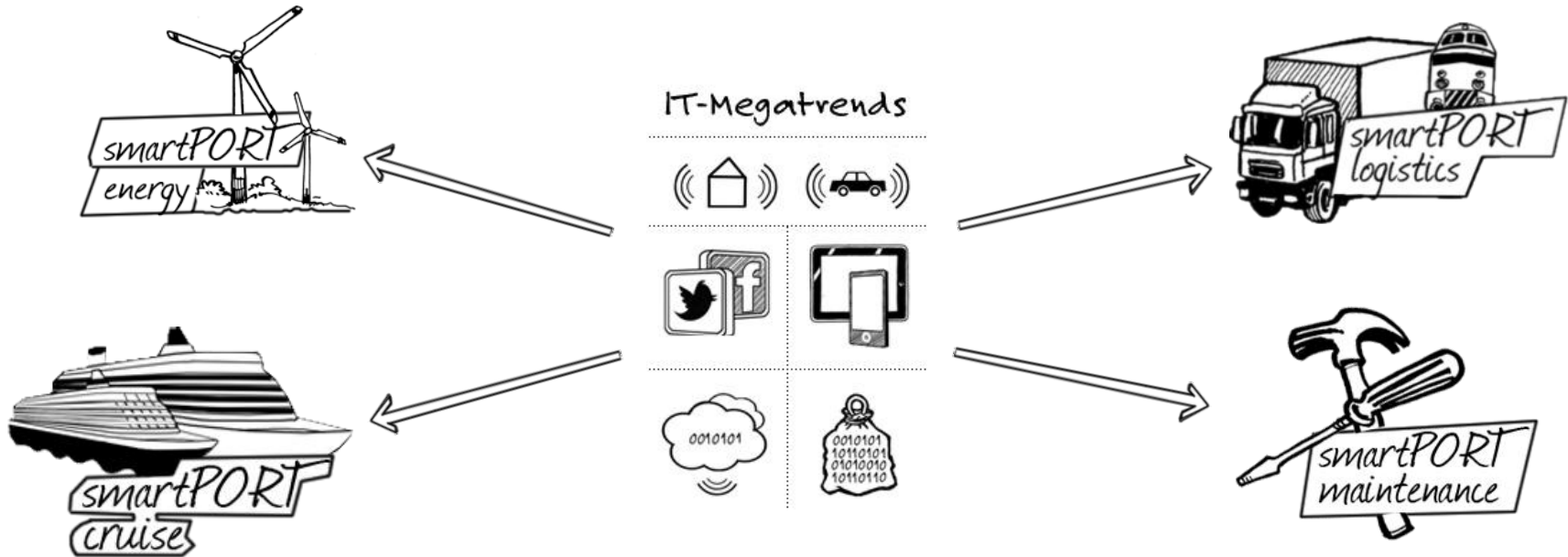
Charles Darwin

SMART PORT HAMBURG



HAMBURG'S ADVANTAGES: SMARTPORT

SmartPORT consists of more than 20 projects and has several focuses



DRIVING FORCES BEHIND CURRENT DEVELOPMENTS IN THE PORT



High cargo volumes
in limited areas

2000: 85 million tons
2017: 138 million tons



Increasing
traffic



Limited parking
areas



Increased
environ- mental
awareness



Larger vessels
& cargo loads

2000: 126 ships
2017: 617 ships

HAMBURG'S ADVANTAGES: SMARTPORT

The ability to adapt rapidly to change will be a key performance indicator for successful ports



smartPORT
energy

Lower energy use and environmental
impact



smartPORT

Efficient use of energy and
infrastructures



smartPORT
logistics

Optimized supply chain and transportation
networks

SMARTPORT ENERGY



SMARTPORT ENERGY – GREEN DIRECTIONS IN PRODUCTION AND USE



Development of innovative technology

Reducing dependency on conventional energy sources



Improved energy efficiency

Reducing emissions



Innovative transportation planning

Reducing energy use and costs

SMARTPORT ENERGY – POWER SUPPLY



Onshore power supply facility in
the Hamburg Cruise Center Altona



Floating liquid gas power plant
LNG Hybrid Barge "Hummel"

Landside power supply for cruise ships reduces emission compared to ships' generators –

reduction of air pollution, CO₂ and noise emission

SMARTPORT ENERGY – ENERGY PRODUCTION



Wind turbines in the port
area



Solar energy plants
in the port area

Alternative power production instead of conventional
power plants reduces air pollution and CO₂

SMARTPORT LOGISTICS



SMARTPORT DIGITALIZATION – LOGISTICS



(Future) Port Traffic Center



Existing IT Platforms



Optimizing the flow of traffic and goods –
Customers (forwarders, logistics providers, and freight agents)
can choose the most efficient transport mode (added value)

SMARTPORT LOGISTICS – SHIPPING



Port Monitor

Control station software for the port vessel traffic center

Collection, processing, and presentation of information from various data collection and communication systems in the port

Comprehensive and up-to-date overview of vessel traffic in the port

SMARTPORT LOGISTICS – ROAD TRAFFIC



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 – RAILWAYS



transPORT rail

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Information system to link all data on railcars and cargo for rail transport companies, Hamburg Port Authority, and terminals

Optimal train scheduling

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Increased efficiency in rail transport

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SMARTPORT LOGISTICS – ROAD TRAFFIC



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

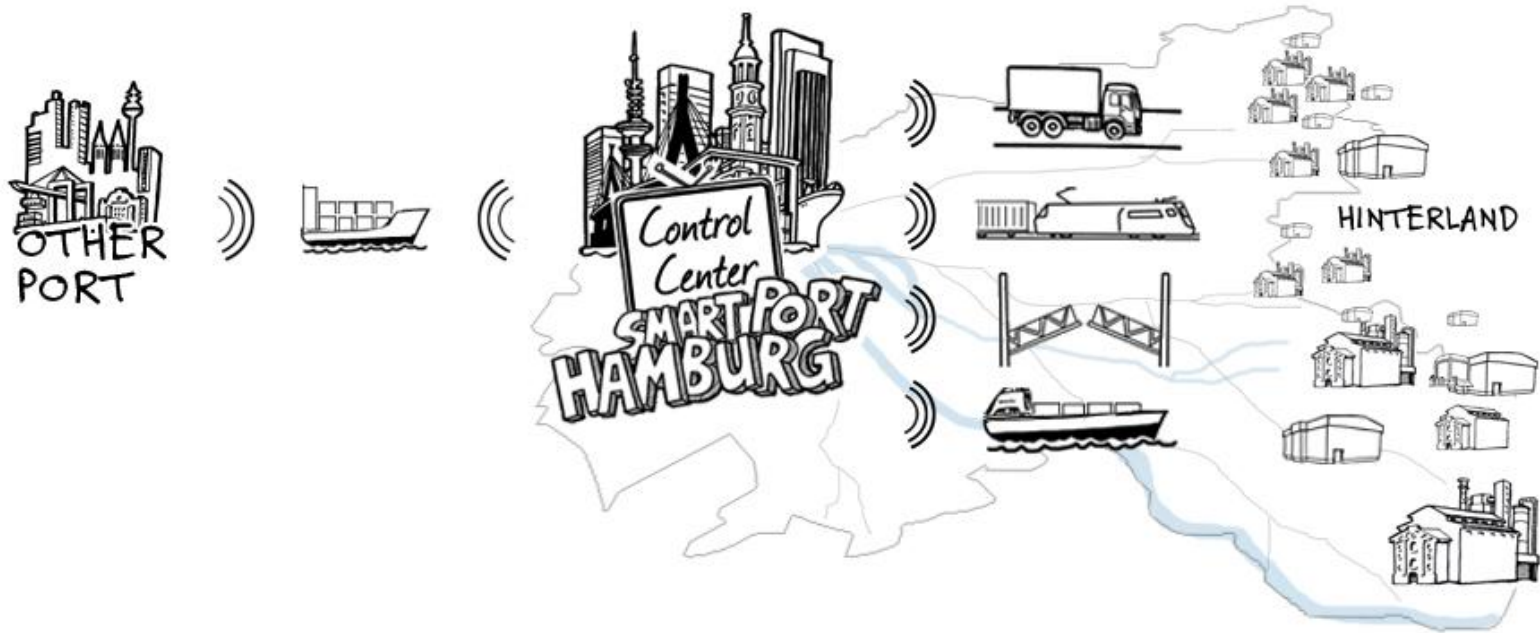
information on construction sites

closure times for moveable bridges

interfaces for further applications

HAMBURG'S ADVANTAGE: SMARTPORT

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THANK YOU FOR YOUR ATTENTION!

Lars Anke

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