## **Competition between Ports** and Hinterland

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**01**HPC Background



# & experience History

## **HPC Background**

Global Experience, Operational Innovation and Down-to-earth Attitude

- Founded in 1976 as subsidiary of HHLA Hamburger Hafen und Logistik AG
- Around 100 dedicated experts, annual turnover in 2018: ~ € 12m
- Reputation as one of the world's leading consultants in the transport sector
- Since 1976 ~1600 port and transport-related projects in 120+ countries, both in the private and public sector
- Operator focus leads to financially viable solutions for port authorities, terminal operators, railways, logistics service providers a.o.
- Developed HPC Ukraina (now CTO) as terminal operator in Odessa (Ukraine)
- Accredited with all major development organizations and banks (World Bank, IFC, ADB, KfW, etc.)







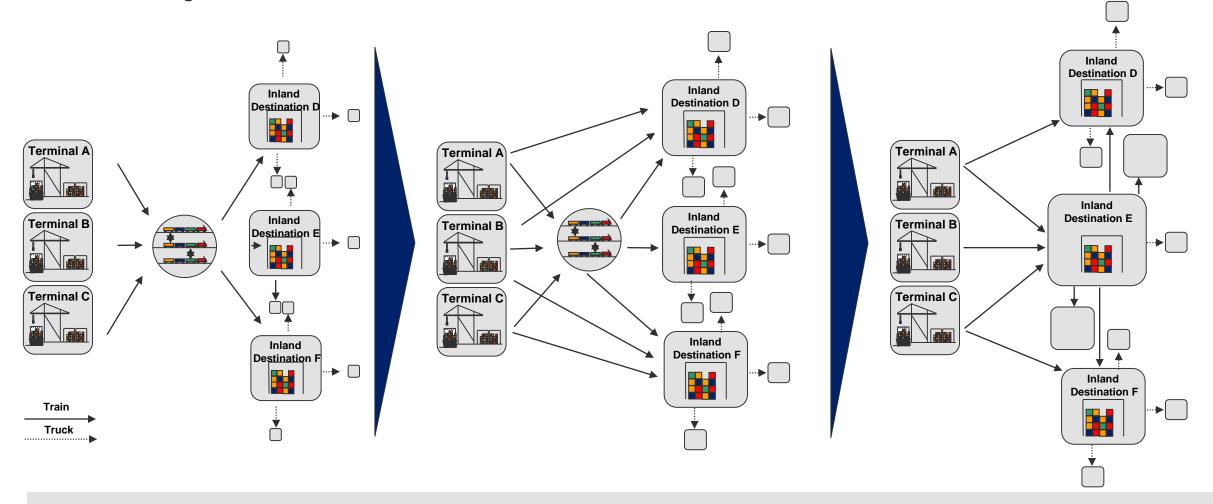
02

**Challenges for Intermodal Hinterland Operations** 



## **Changes to Network Architecture**

Take Advantage of Economies of Scale

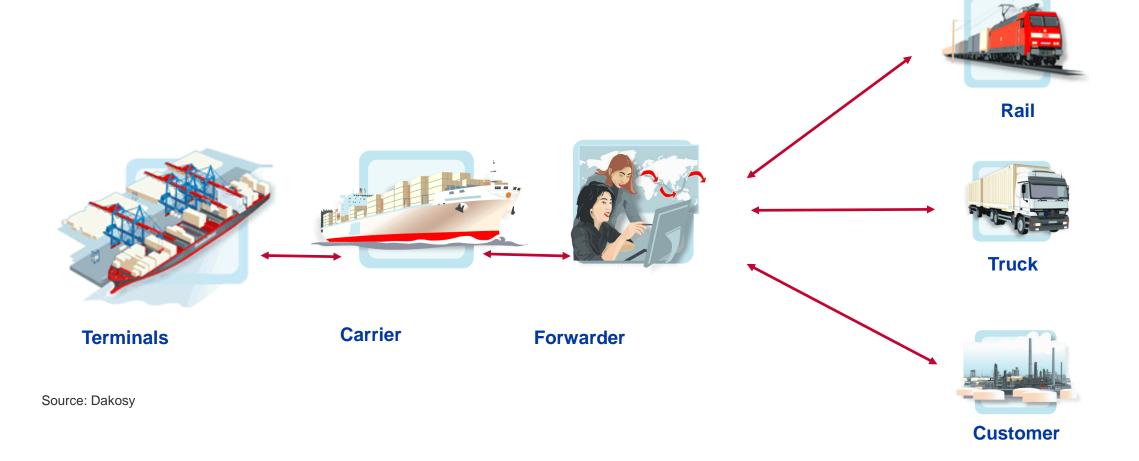


→ Creates Demand for smart Use of Economies of Scale along the Supply Chain involving other Parties!



## **Contractual Relationship...**

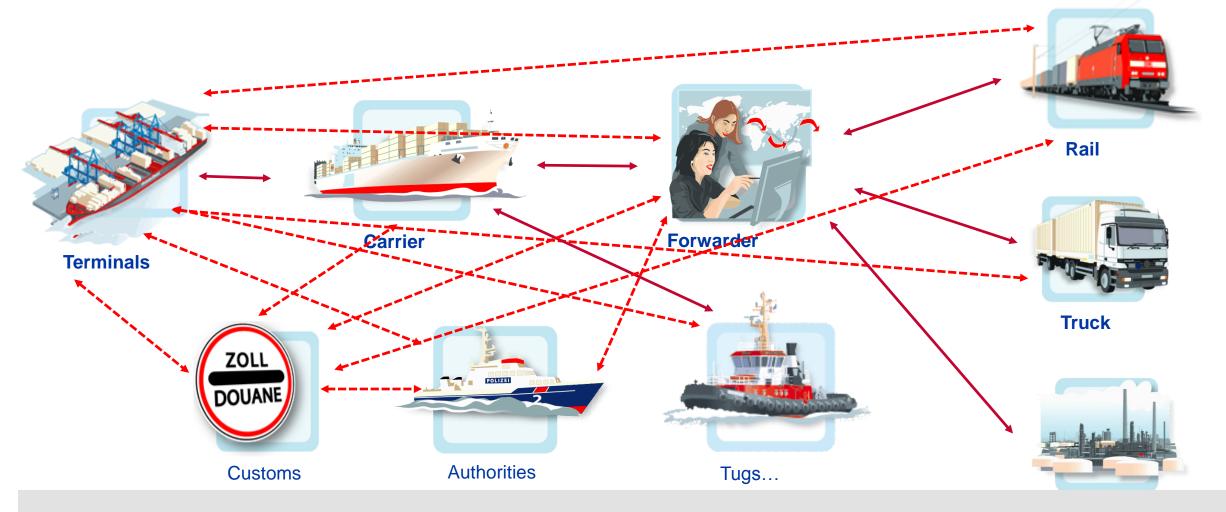
... used as Excuse for non-optimal Supply





## .... and Information Exchange Complexity

Individual Perspectives lead to suboptimal Solutions



→ Other Approaches necessary! → Collaboration in competitive Environments?



03

**Case Studies** 



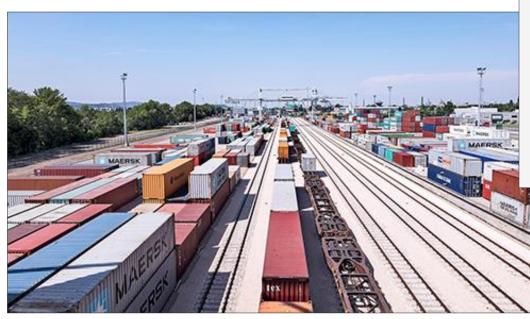
## **Case Study 1a: Intermodal Hinterland Hubs – Metrans Network**

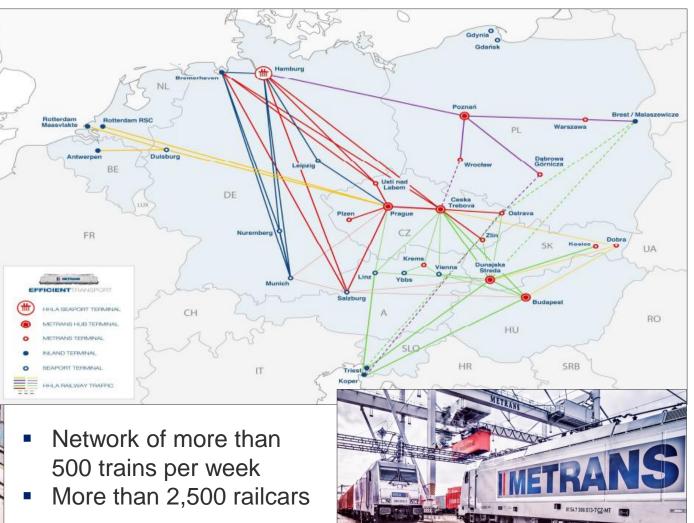
Adapted network structures for efficient hinterland operations

Sister company within Hamburger Hafen und Logistik AG (HHLA)

#### **Operator of Terminals and Trains**

Hub-Terminals in Poznan (PL), Prague, Cesca Trebova (CZ), Dunajska Streda (SK) and Budapest (HU)

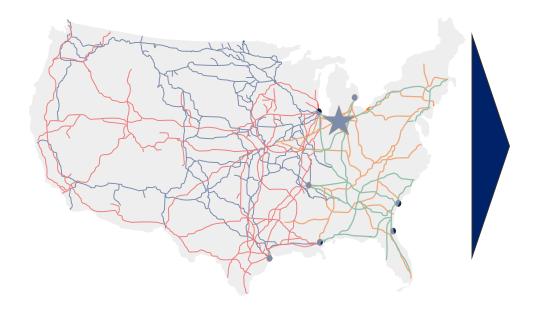






## Case Study 1b: Intermodal Hinterland Hubs – Hub Terminal NWOH

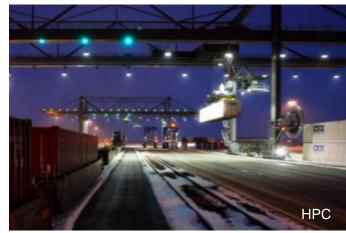
The world's first hub terminal designed as such!



#### **Objectives**

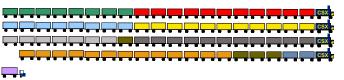
- Connect Western and Eastern railway networks avoiding transload in Chicago
- Toupee/Fillet operations
- Intermodal service to the growing northwestern Ohio market







Train block swapping and transload of containers

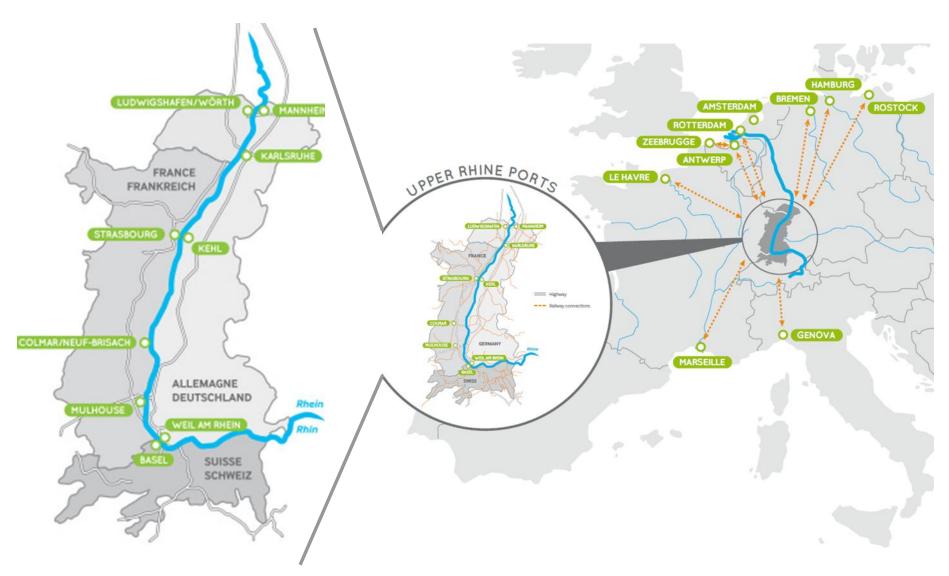


→ Hub Terminal for the World's most advanced Intermodal Market ("Transrailment" Terminal)!



## Case Study 2: RheinPorts & Upper Rhine Information System

#### Transparency matters



#### **Objectives:**

- Create visibility to supply chain partners...
- Better utilize available infrastructure
- Create reliability and efficiency



## Case Study 2: RheinPorts & Upper Rhine Information System

RPIS - Stakeholder









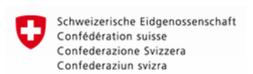








danser



























Hamburg Vessel Coordination Center – Feeder Logistics Center – Nautical Terminal Coordination

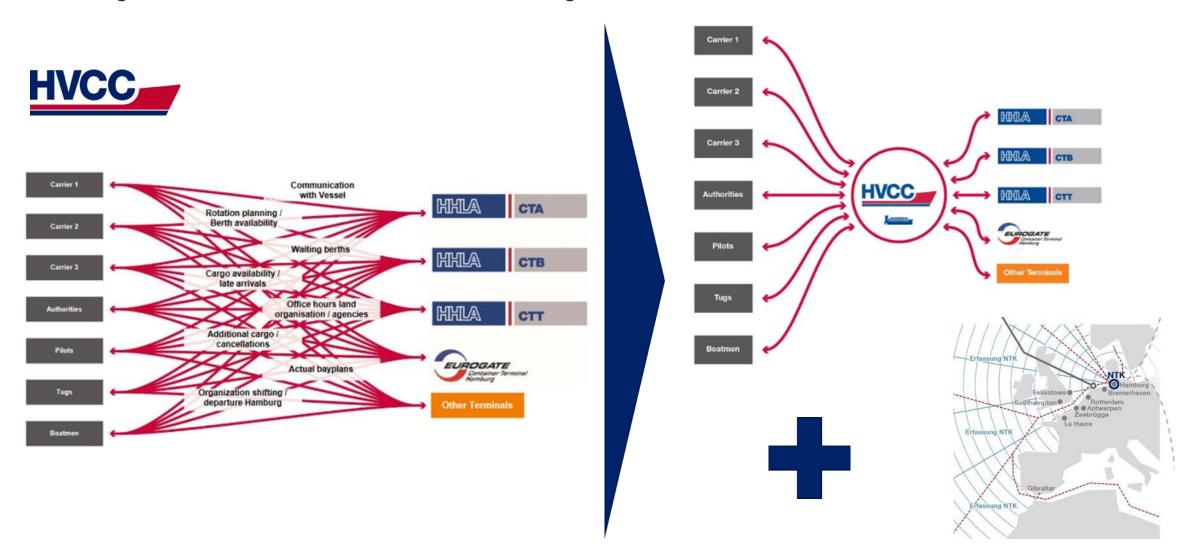


#### **Typical Situation:**

- Communication with vessel
- Rotation planning/ berth availability
- Cargo availability/late arrivals
- Office hours land organizations/agencies
- Additional cargo/ cancellations
- Actual bayplans
- Organizational shifting/ departure Hamburg

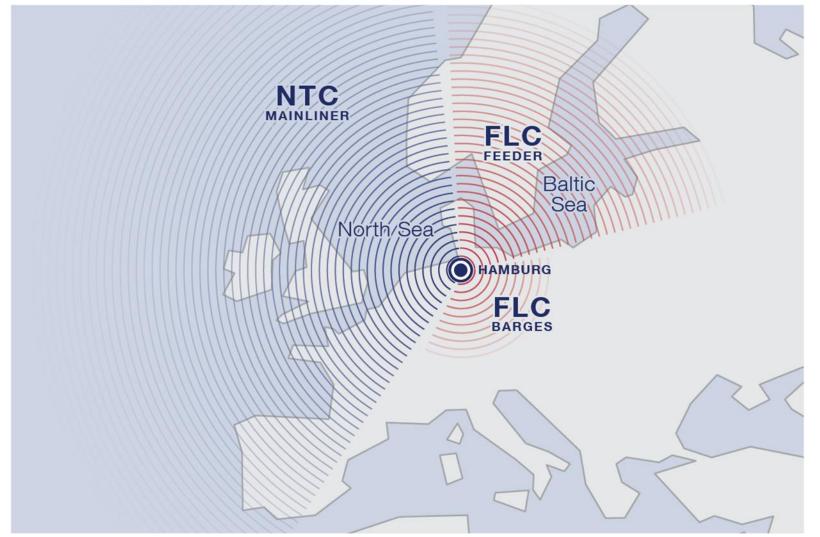


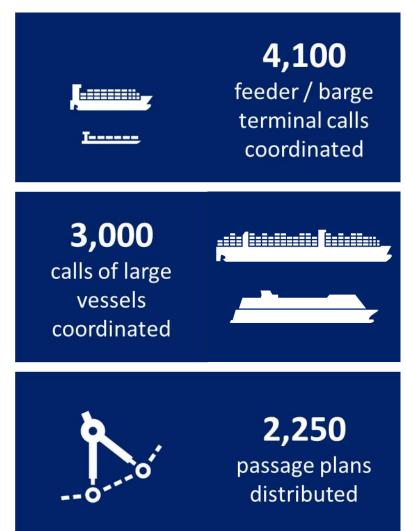
Hamburg Vessel Coordination Center – Feeder Logistics Center – Nautical Terminal Coordination





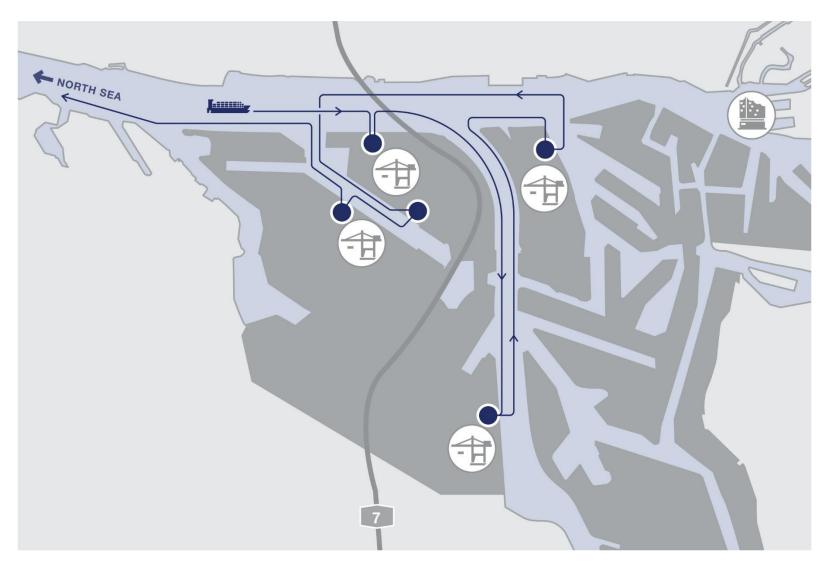
Achievements per annum







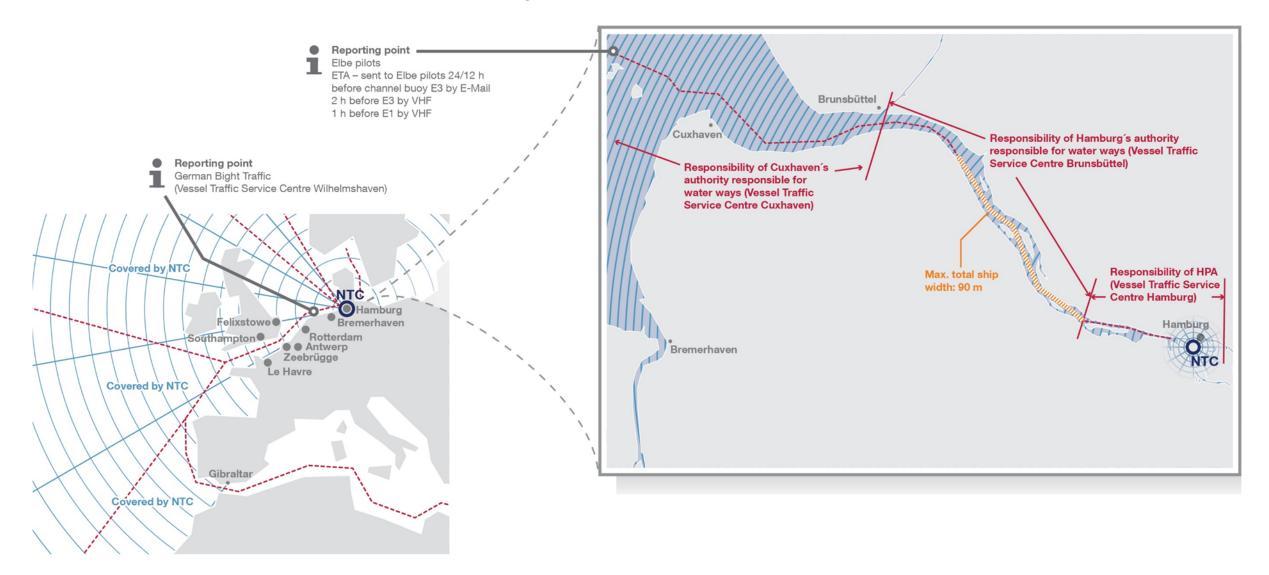
Achievements per annum







Nautical Coordination on Approach to Hamburg





**Achievement Opportunities** 



If sailing with 14 kn instead of 18 kn

22t

bunker savings

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





03

Conclusion



## **Community Approach**



#### **Lessons learned**

- Infrastructures are getting a digital counterparts to be endeavored for new solutions
- Willingness to cooperate is prerequisite
- Service quality and reliability become increasingly important
- Stakeholder, change & integration management are the success factors
- Modular design of IT systems & flexible interfaces
- Standardization as much as possible
- Involvement of new technologies
  - loT & Big data
  - Block chain solutions

→ All Solutions have one Aspect in common – Cooperation!



### **Conclusion**

Lessons learned



## Supply Chain Focus with Community System Support in stepwise Approach







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