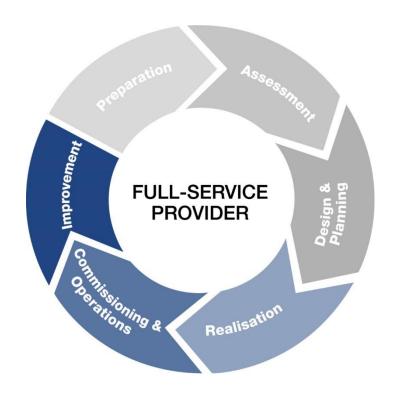




HPC Hamburg Port Consulting

We take your segment's view and look at your specific needs

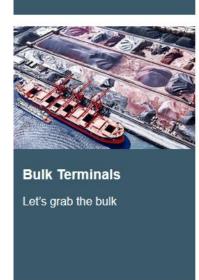
OUR APPROACH IS YOUR SUCCESS





Marine Container Terminals

We've got the key to successful container terminal operation





Governments, Communities, Ports

We provide a fundamental understanding of ports and transport



Cruise Terminals

Cruising on the wave of success



Intermodal Rail Terminals

Managing growth and increasing efficiency in intermodal terminals



Multipurpose Terminals

Providing flexible and efficient operating concepts to create solutions for a modern port



Airports

Ready for takeoff to your destination



Marine Shipping

Mastering the challenges is the key success of our team



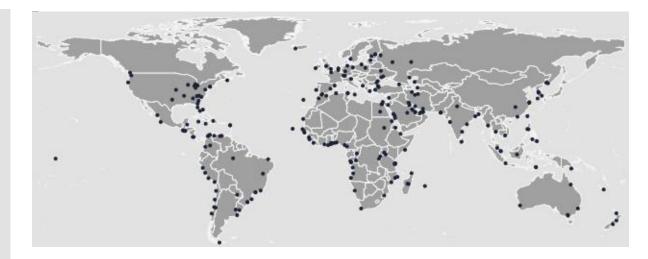
History & experience

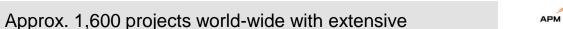
Background HPC

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

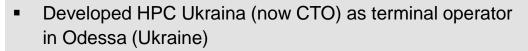
Founded in 1976 as subsidiary of HHLA Hamburger Hafen und Logistik AG

- Around 100 experts, annual turnover in 2018: approx. €12m
- Reputation as one of the world's leading consultants in the port and transport sector
- Since 1976 port and transport-related projects in more than 120+ countries, both in the private and public sector





experience in container terminal planning



- Accredited with all major development organizations and banks (World Bank, IFC, ADB, KfW, etc.)
- Independent assessment of solutions, no affiliation with any equipment manufacturer in the market































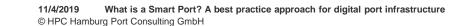










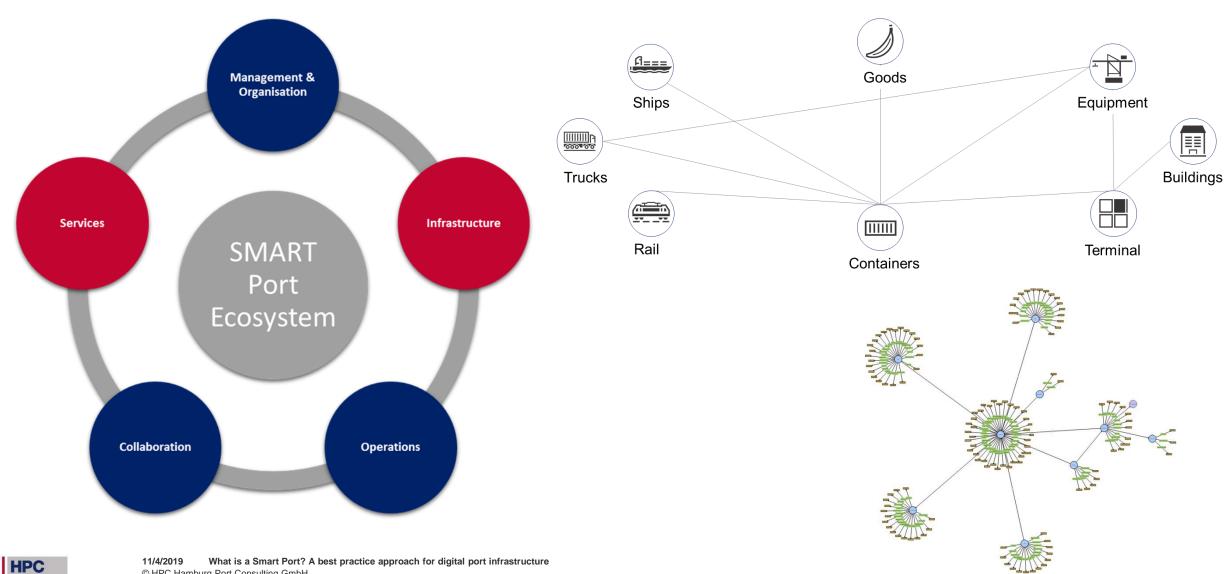


Digitalisation



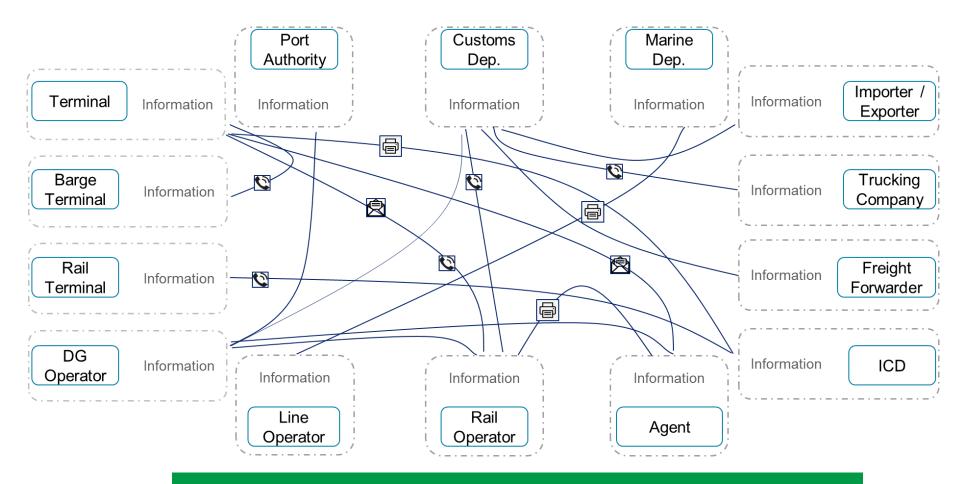


The Significance of Data





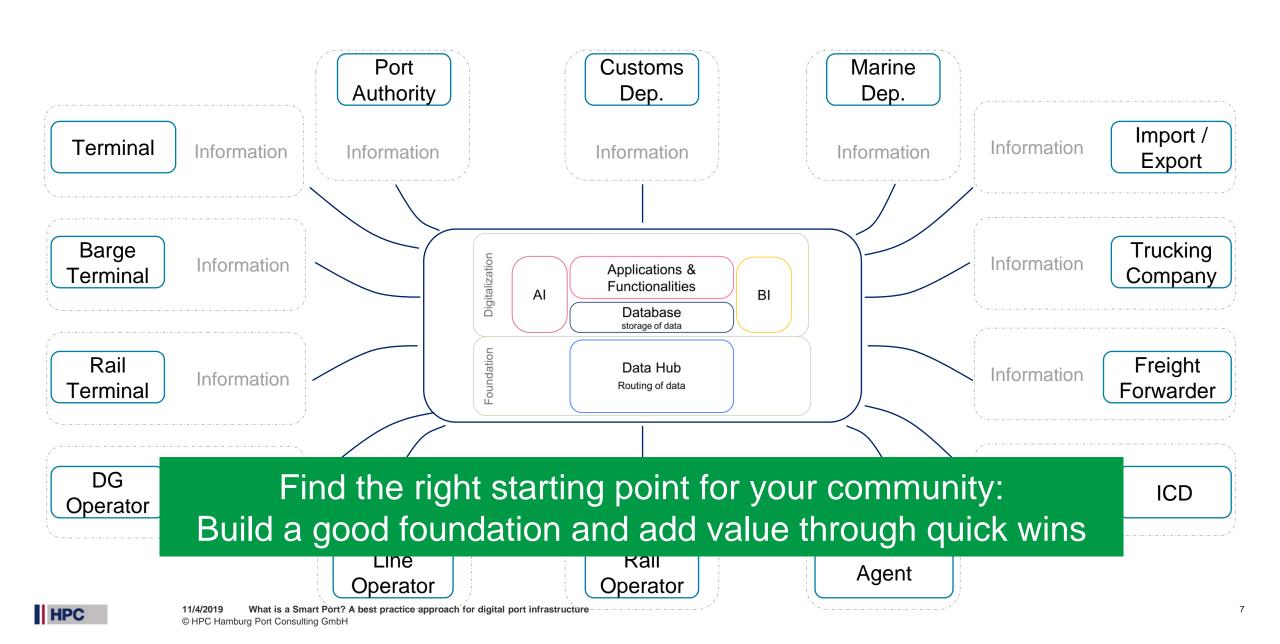
Degree of Digitalisation



There are a lot of opportunities to improve



Implementation Strategies



Success Story

01

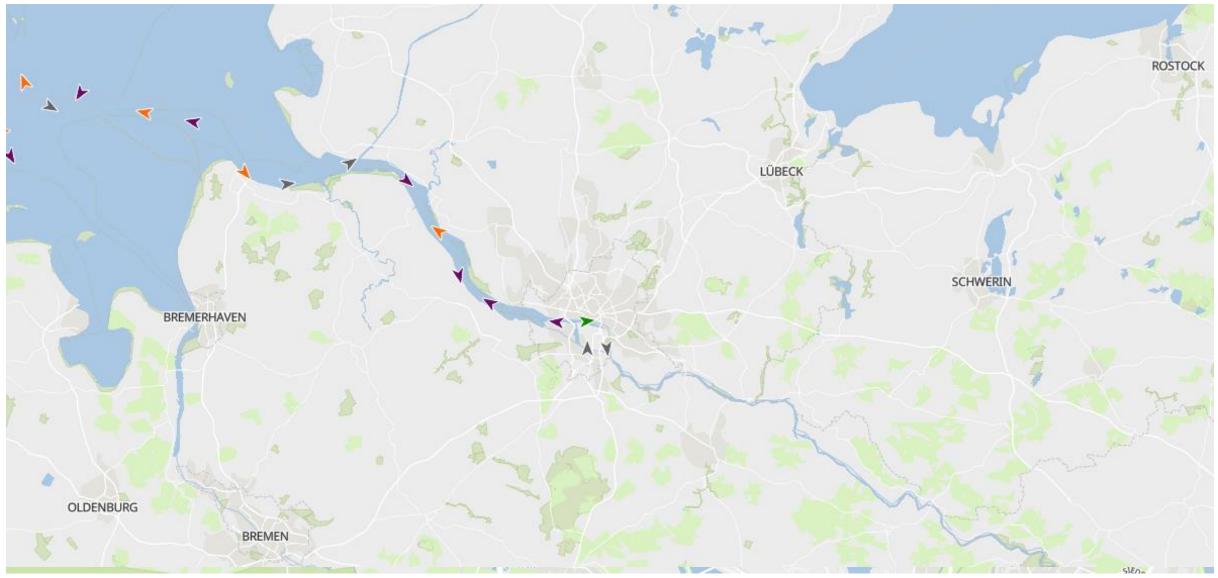
HVCC Hamburg Vessel Coordination Center





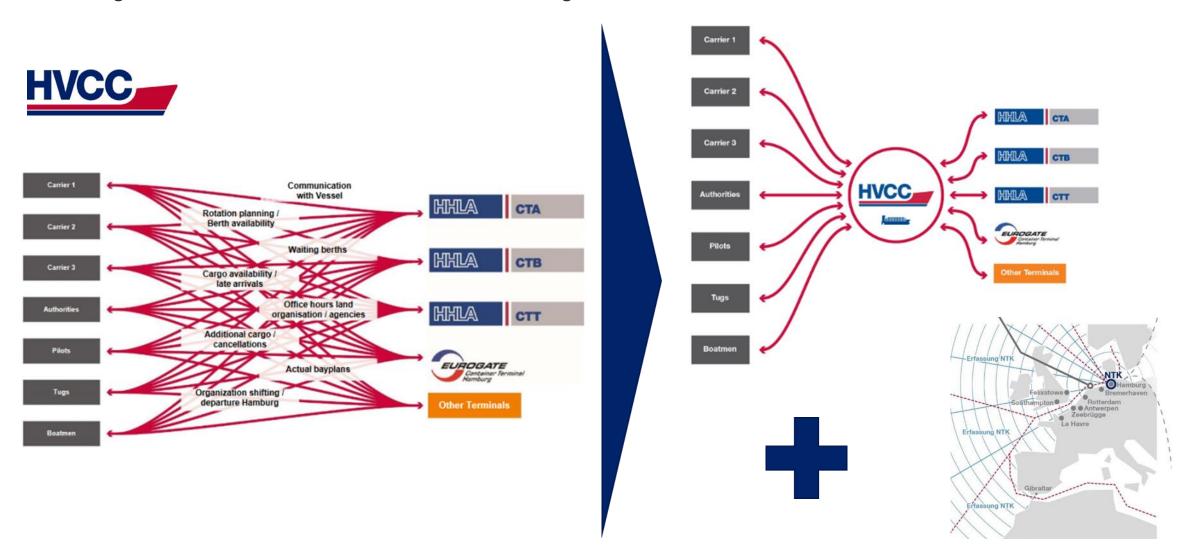
Success Story 1: HVCC – Hamburg Vessel Coordination Center

Geography



Vessel Routing Optimisation with HVCC

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





Adjusting speed on transit to Elbe approach

NTC distributed 2018 more than 3,350 passage plans for an optimal speed instruction



If sailing with 14 kn instead of 18 kn

22t bunker savings

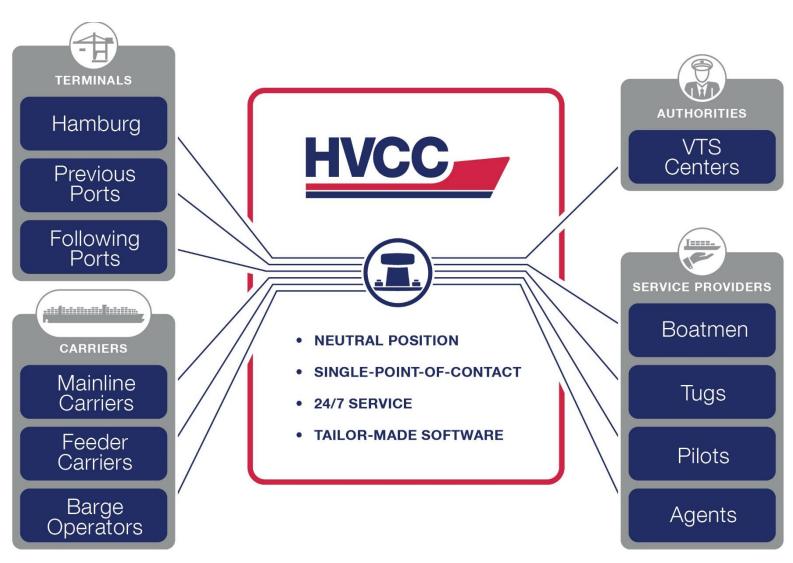
66t
less CO₂-emmissions





HVCC software project 2.0

2017-2018: Partner specific dashboard-solutions and interfaces



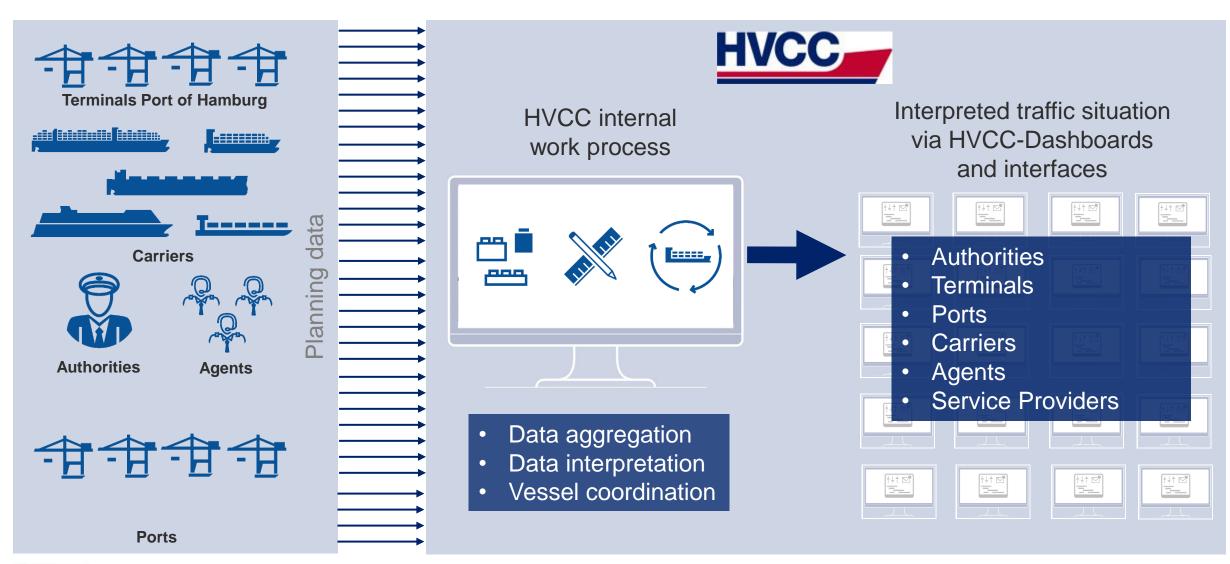
- Integration of partners and strengthening of networking through tailor-made dashboard solutions, interfaces and reporting functions as part of the Software as a Service (SaaS) model
- Project
 co-financed by the
 Transport
 within the
 IHATEC-project



- Service providers benefit from data and established planning process
- HVCC and Port of Rotterdam established first operational interface based on Sea-Traffic Management (STM) Standard

HVCC collaboration platform

Aim: One single truth across all partners





Success Story

02

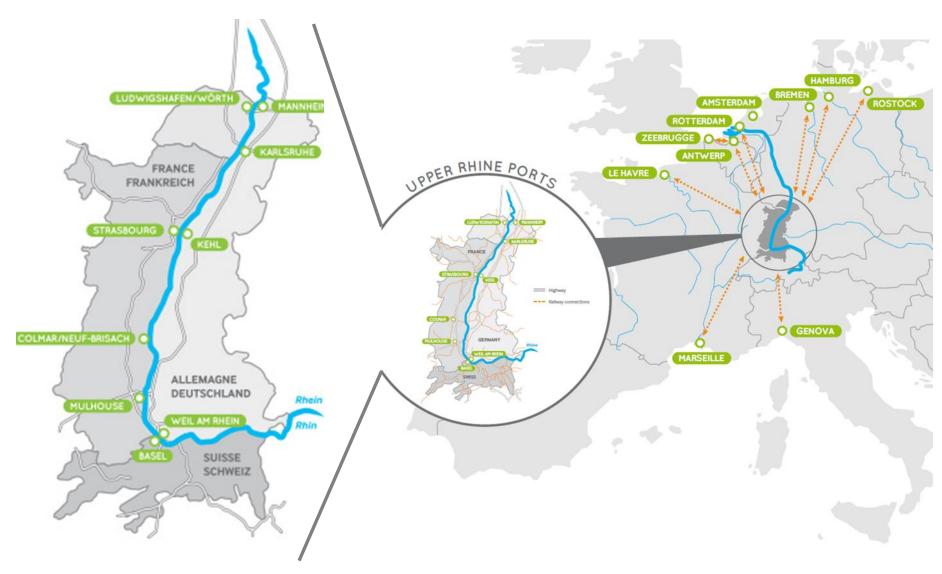
RPIS – RheinPorts Information System





Success Story 2: RheinPorts & Upper Rhine Information System

Transparency matters



Objectives:

- Create visibility to supply chain partners
- Better utilisation of physical infrastructure
- Increase service level



RheinPorts & Upper Rhine

RPIS – Stakeholders



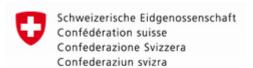








danser



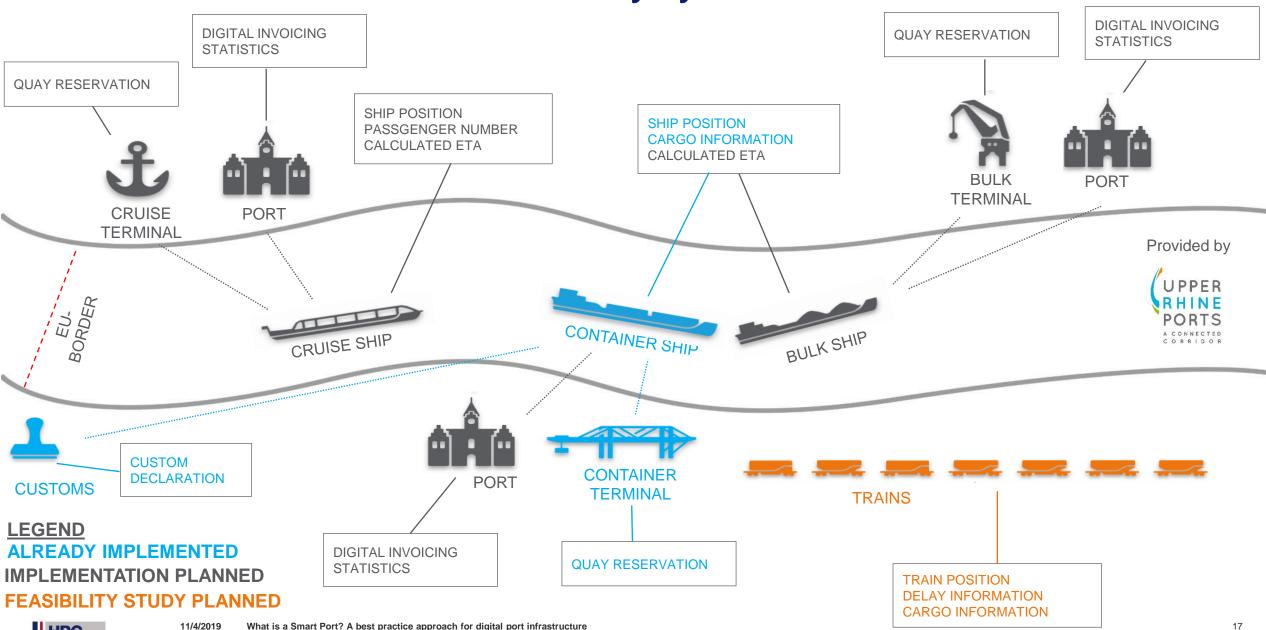








RPIS 4.0 – Smart Inland Port Community System

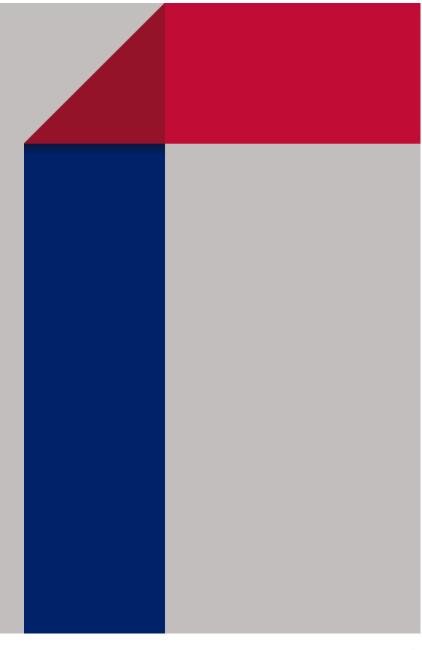




Success Story

03

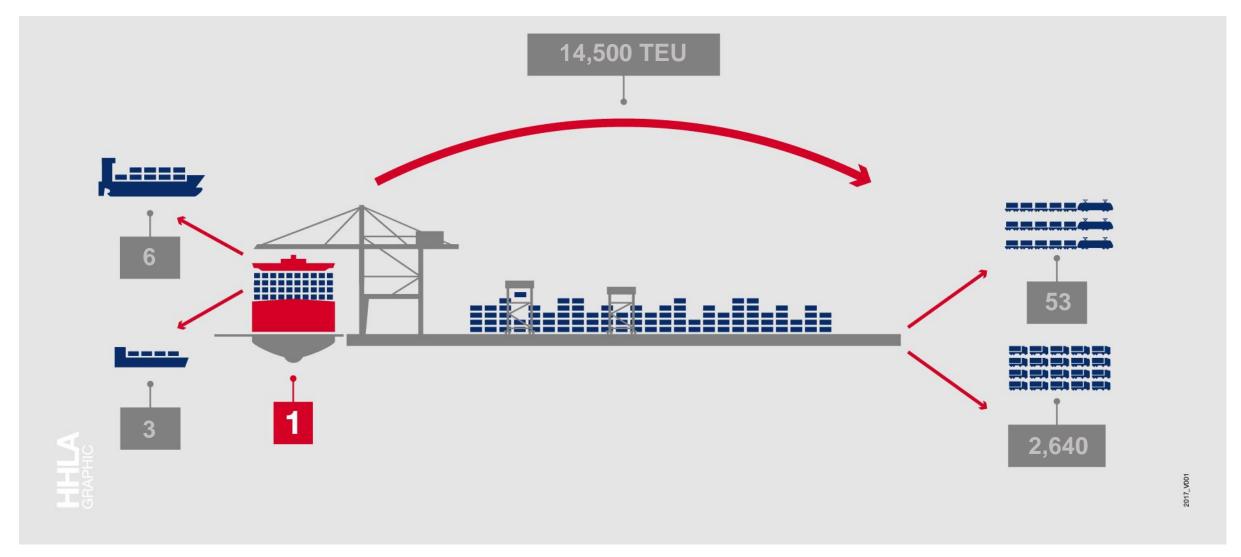
HHLA Fuhre 4.0 Truck Appointment





Success Story 3: Truck Appointment – Fuhre 4.0

Peak load e.g. 20,000 TEU container vessel



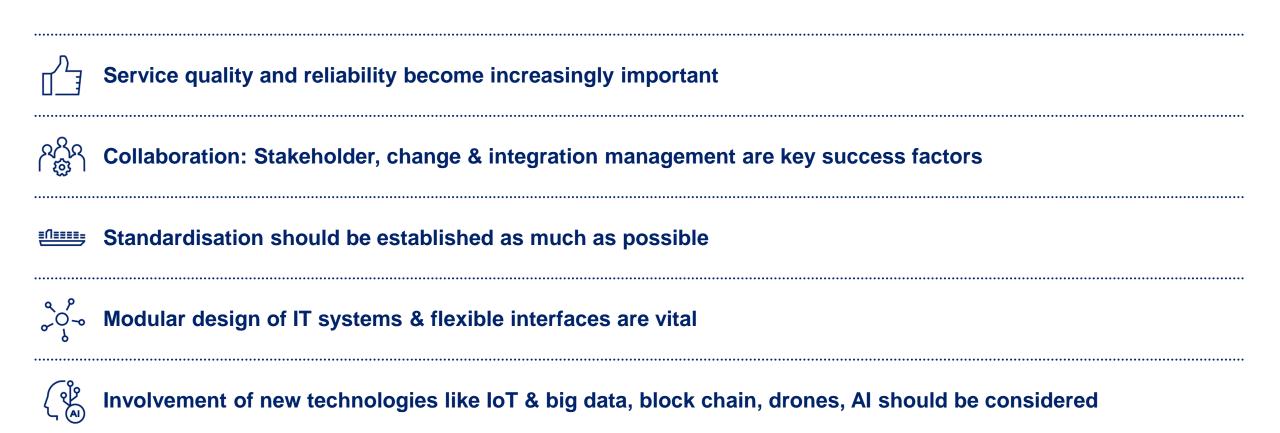


Key Takeaways





Key Takeaways



Port infrastructure must have a digital counterpart that serves the whole community



Thank You!

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