HVCC
Hamburg Vessel Coordination Center
Company Presentation

Why HVCC?

HVCC

HVCC is an unique coordination service for customers of the Port of Hamburg

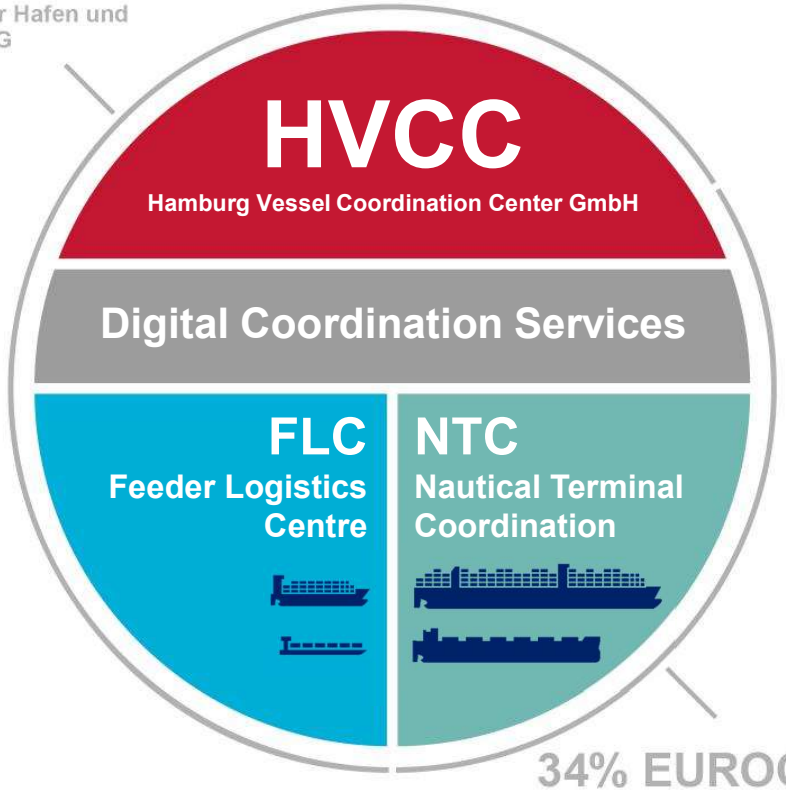
Overview organisational structure

Joint-Venture between two competitors

24/7 operational and single point of contact for all partners

***Port Collaboration Platform* with 1.000 user**

66% HHLA
Hamburger Hafen und Logistik AG



34% EUROGATE
Eurogate Container Terminal Hamburg GmbH

Coordination of rotation and stow-planning for feeder and barge services

Coordination of large vessels on North-European rotation

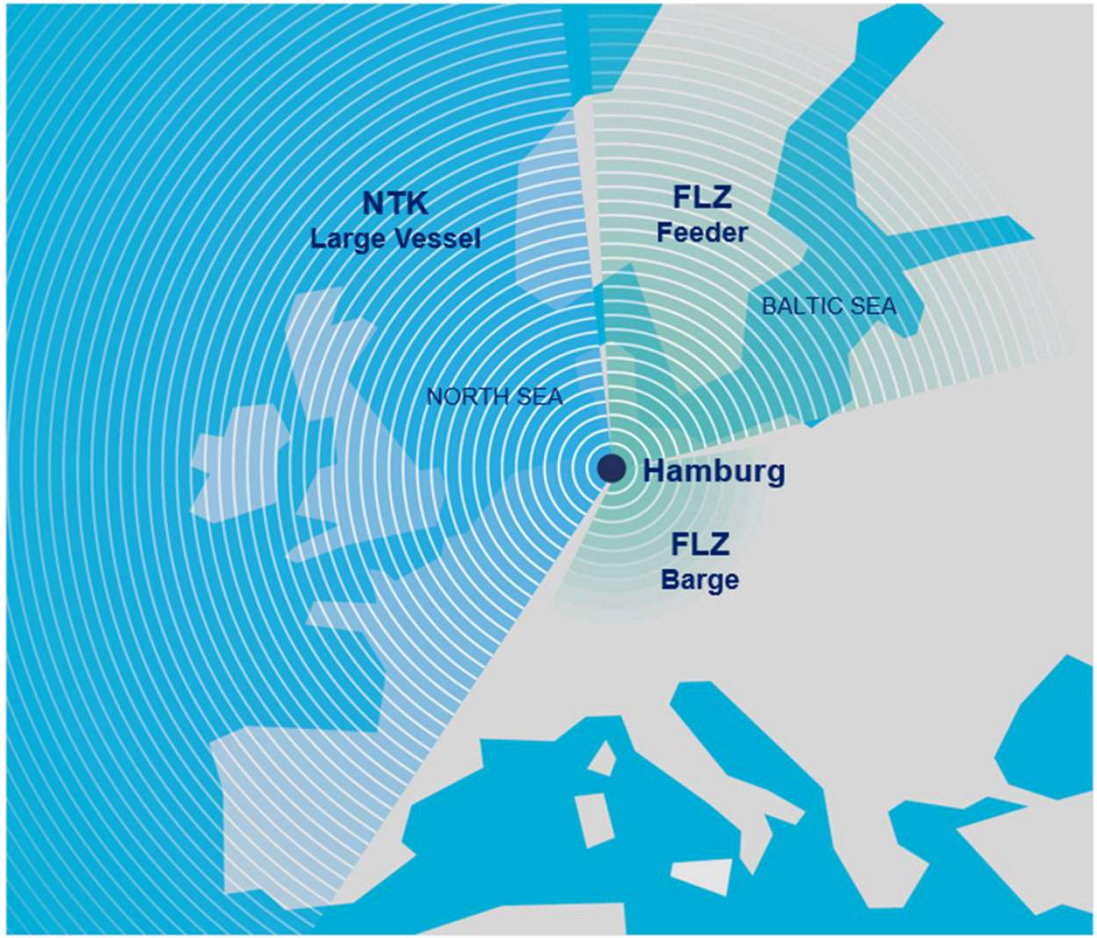
Participation in relevant port related standardization initiatives

Geographical coverage of the HVCC coordination service

Cover for large vessels, feeder vessels and inland vessels 2022

6.250
Feeder / Barge terminal calls

2.640
Coordinated Large Vessels



1.000
Software User

3.300
Passage plans for Large Vessels

HVCC has been globally unique for over ten years

Unique selling points

Partnership

Unique collaboration (shareholders, customers and partners) for sustainable and customer-oriented service

Neutrality

Holistic port call optimization and utilization of terminal and port infrastructure in Hamburg

Availability

24/7 proactive coordination services by highly qualified staff

Software

Process-oriented software solutions with customized dashboards

Extensive coordination and connection of port community

Services of HVCC

Coordination services

- Initial registration at the terminals as well as with the authorities (berths and port fees)
- Coordination of vessel arrivals/departures and port rotations, incl. ordering of nautical service providers (pilots, tugs, linesmen)
- Central stow planning for feeders and barges
- Create passage plans for large vessels arriving and departing from the Port of Hamburg
- 24/7 supervision of operating and port rotation

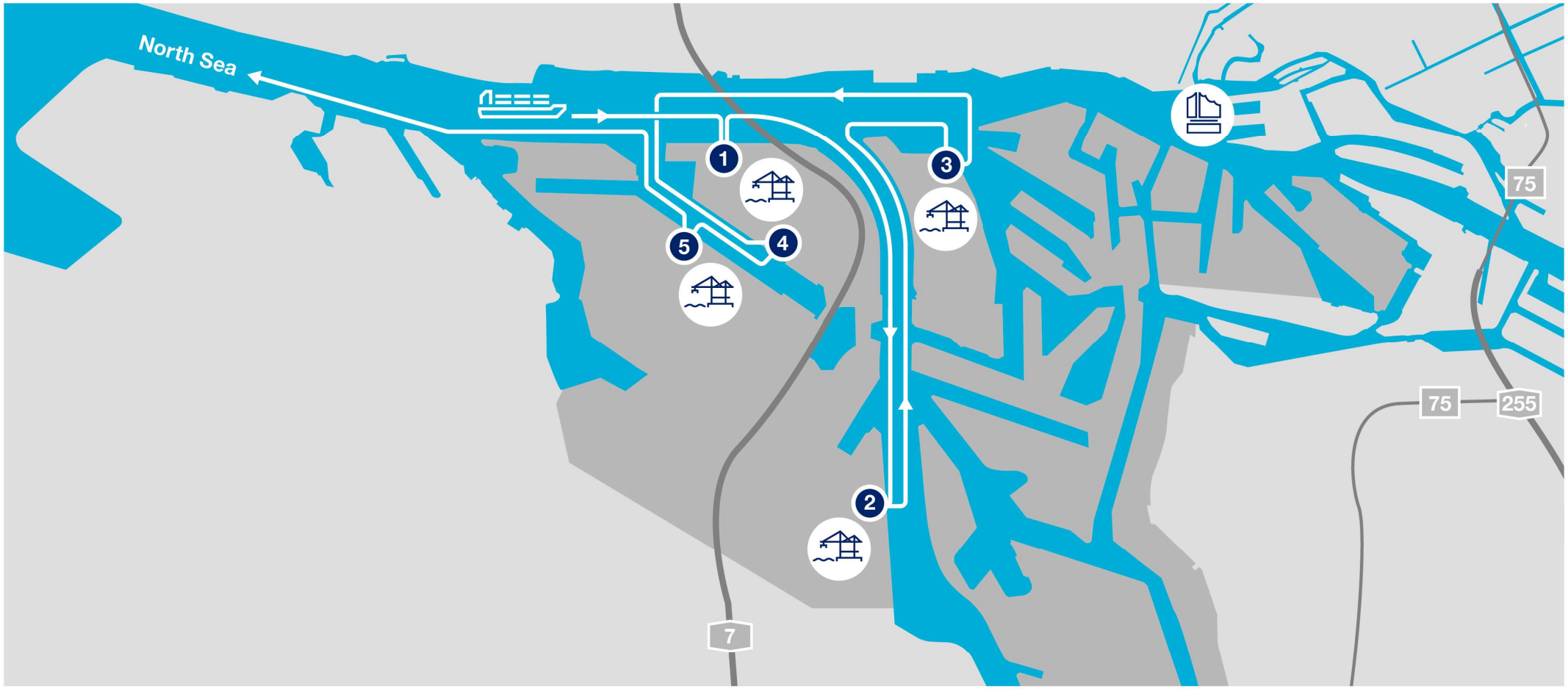
HVCC Port Collaboration platform

- Customised dashboard solutions
- PRISE platform for berth registration at the Port Authority and other vessel information
- Barge-Plattform
- Interfaces for connection with previous / next ports and carriers (DCSA Fahrplan-API)
- API hub for interface-bound use of terminal data for partners
- Interface to the Wärtsilä Navi-Port platform for transmitting the Requested Time of Arrival of a vessel

Feeder Logistics Center

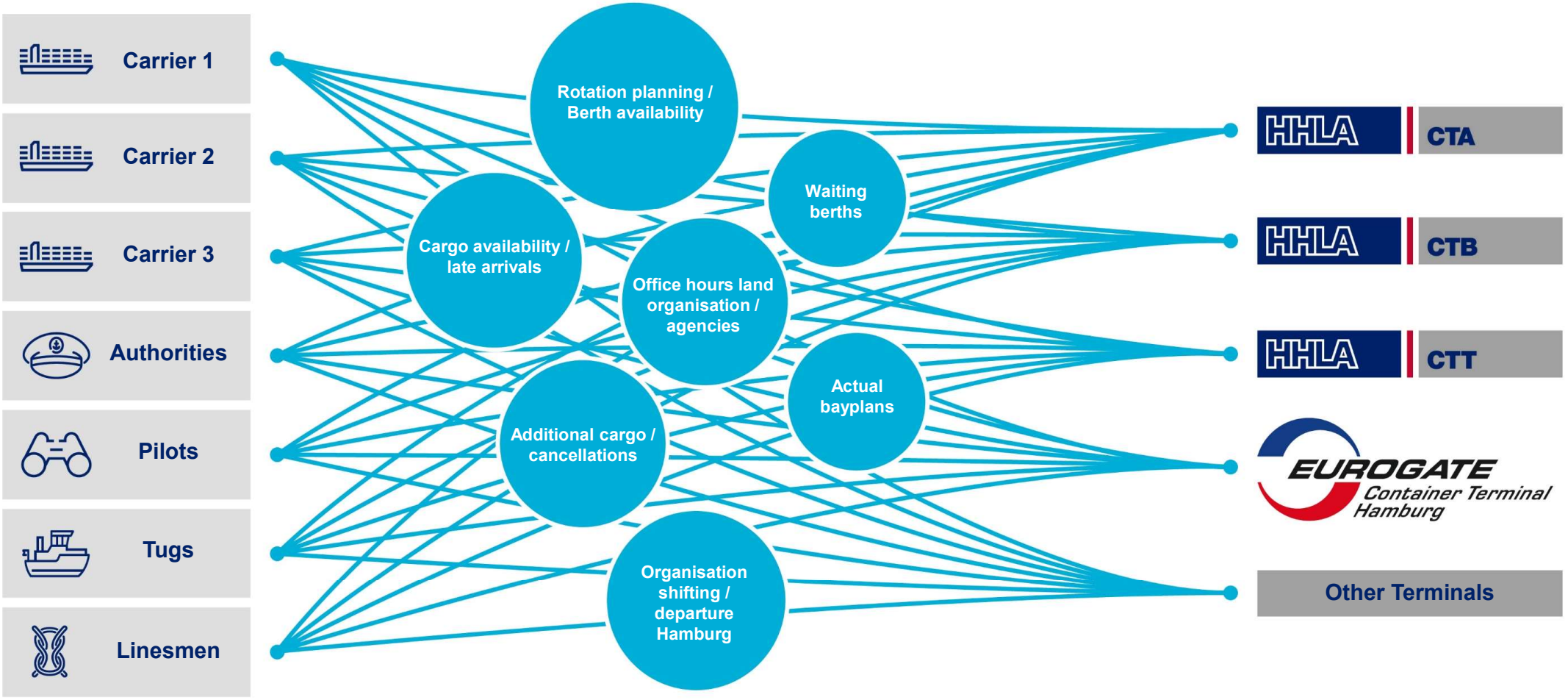
Complex handling of rotations in tight time windows

Rotation example of a feeder ship in the port of Hamburg



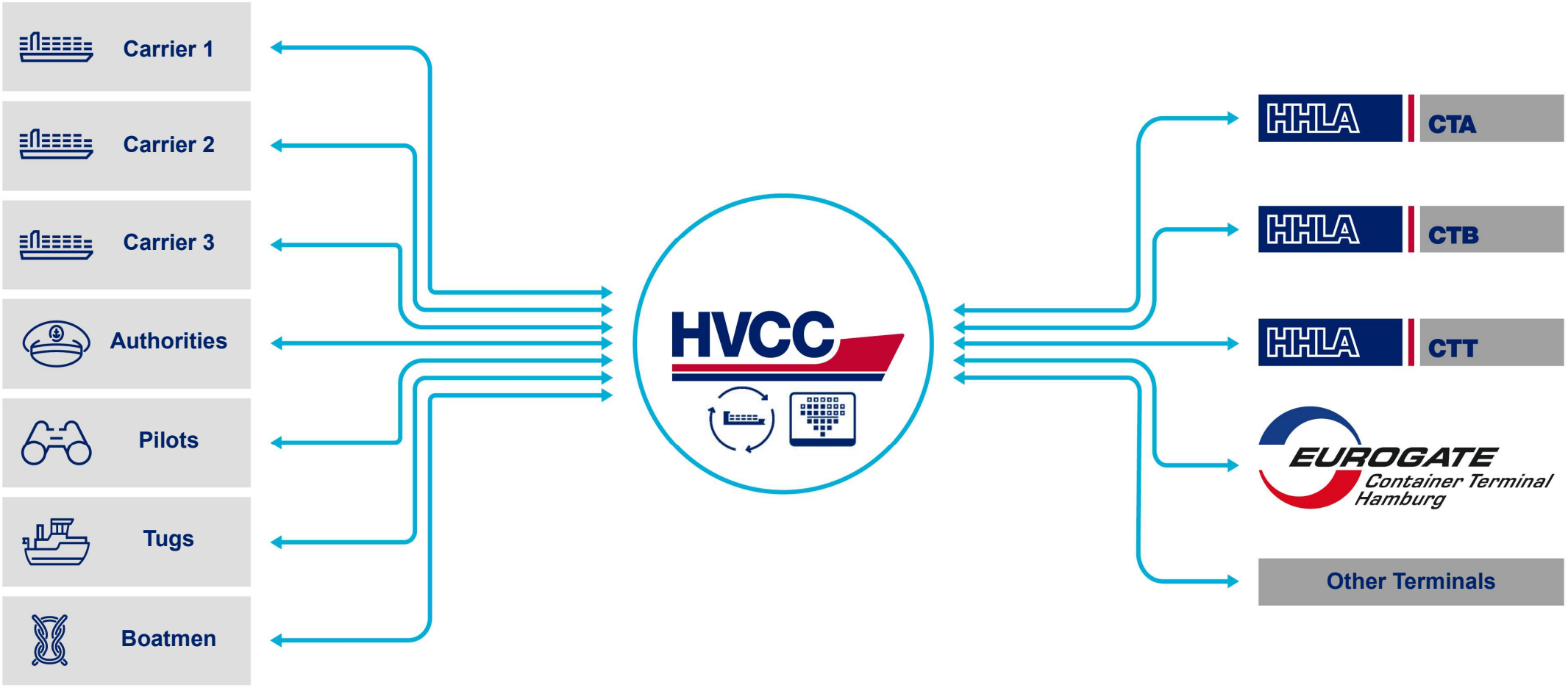
Multiple bilateral communication around a feeder rotation

Feeder communication in the port **without** coordination by FLZ



Optimisation of vessels' port call and utilisation of terminal infrastructure

FLC established port-communication platform



Working areas and service of FLC

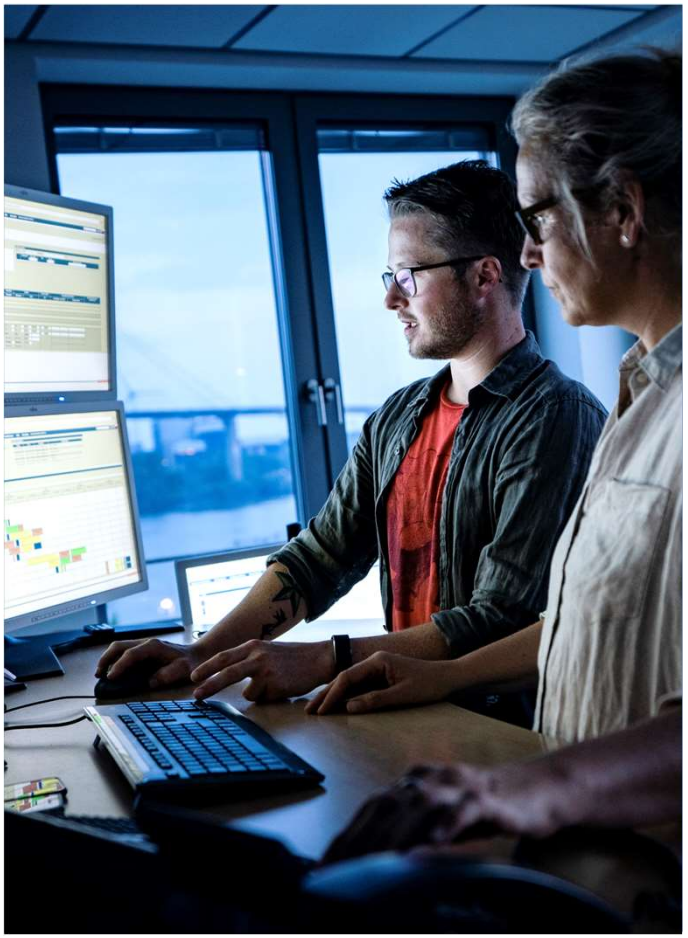
Overview

Planning (Stow planning)

- Receiving of stow instructions,
- Continuous checking of cargo availability as well as work programmes
- Ad-hoc adjustment / rescheduling of a vessel
- Forwarding and coordination of the checked stowage plans with the terminal
- Continuous and pro-active communication with the carrier

Operating (rotation planning)

- Permanent monitoring of vessel positions and pro-active intervention in case of delays
- Direct access to terminal`s operational systems and continuous communication with duty manager at the terminal resulting in real-time operational status picture
- On-time ordering of nautical service providers and authorities
- Arranging waiting berths



Advantages of 24/7 service of FLC

Overview

Carrier

- Enabling concentration on core business
- Optimization of rotations and port stay
- Direct access to terminal´s operational systems
- Operational decisions on behalf of the carrier
- On-time ordering of service providers

Terminal

- Contact person for all operational issues
- Receipt of approved work programs/stowage plans, reducing waiting times through clarification processes
- Optimized berth utilization through coordination of feeders and barges by one central instance

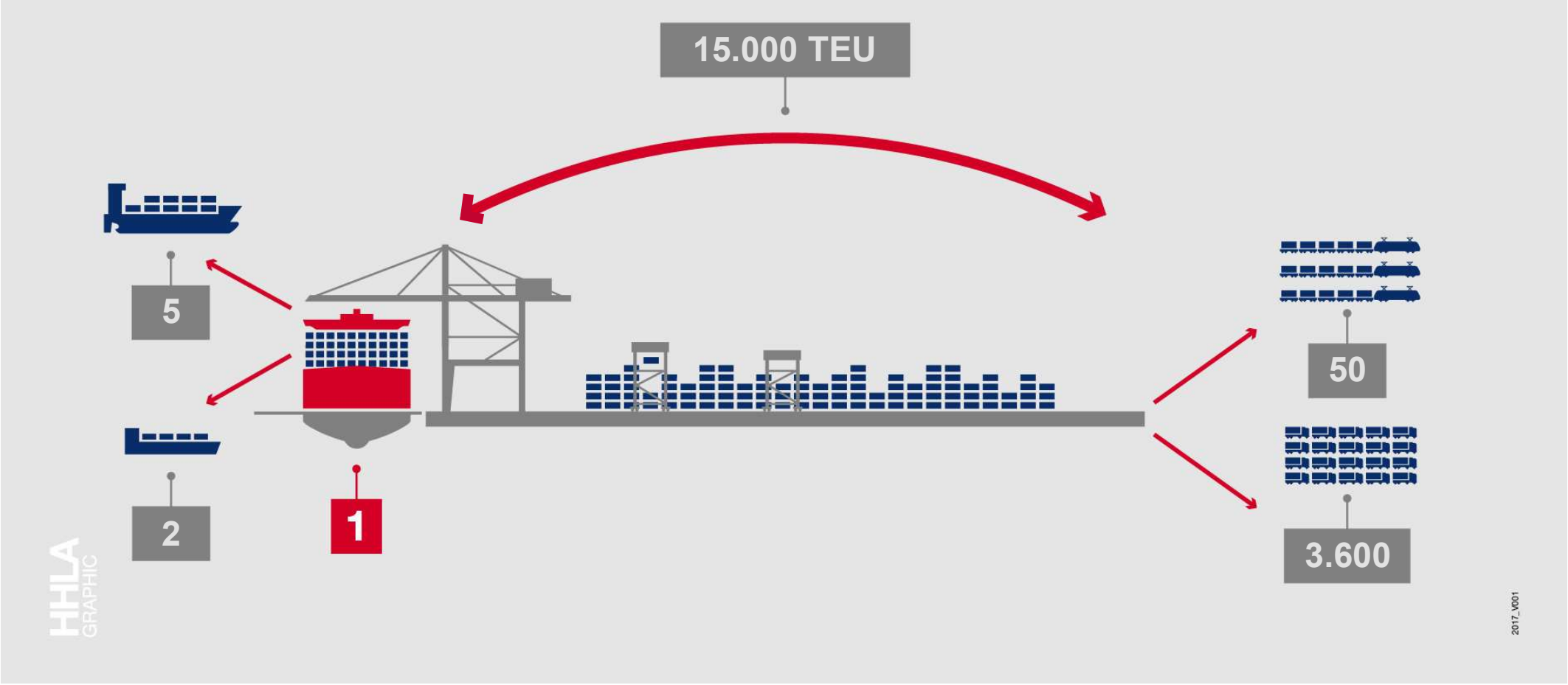
Port

- Optimized use of port’s infrastructure
- Relief of authorities (e.g. VTS) regarding requests on vessel´s rotation
- HVCC as a unique feature of the Port of Hamburg

Nautical Terminal Coordination

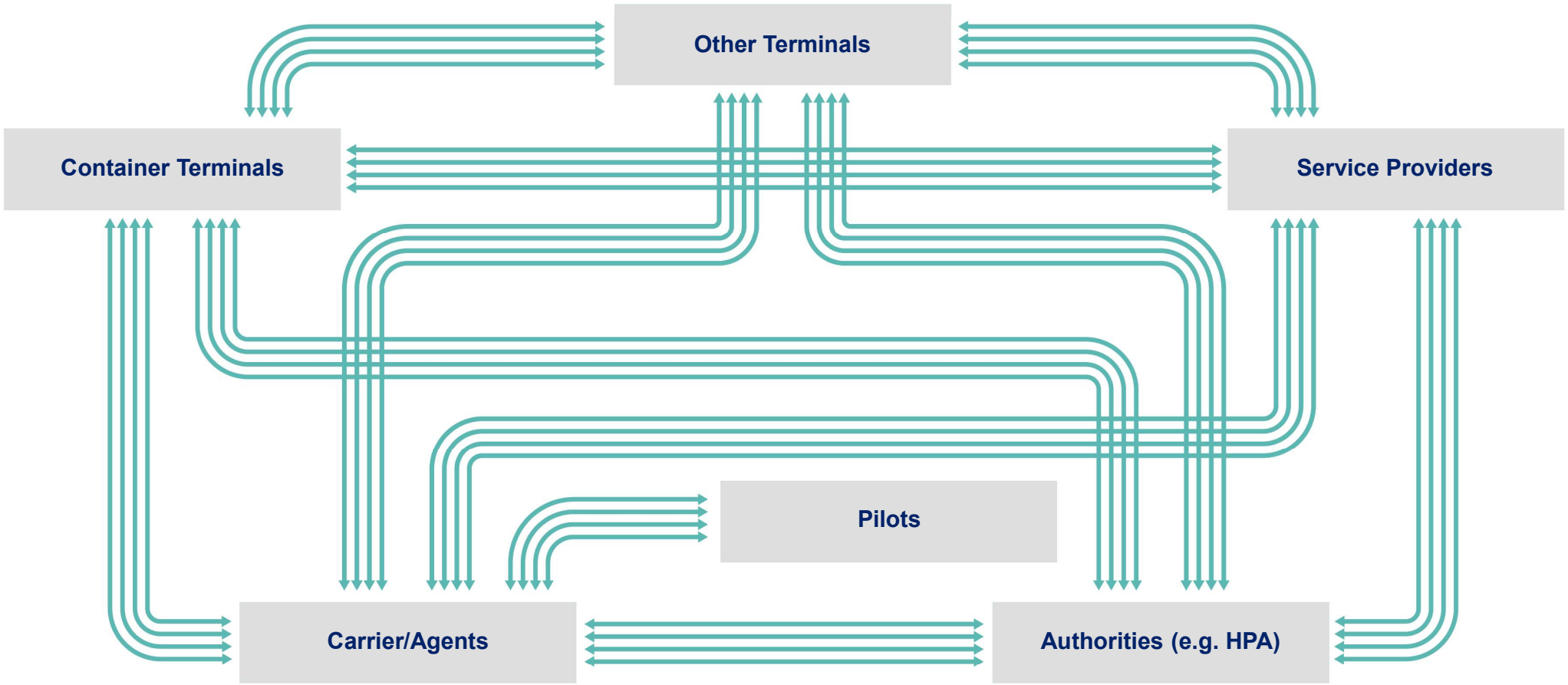
Enormous importance of reliable inflow control

Example peak loads using a 20,000 TEU vessel as an example



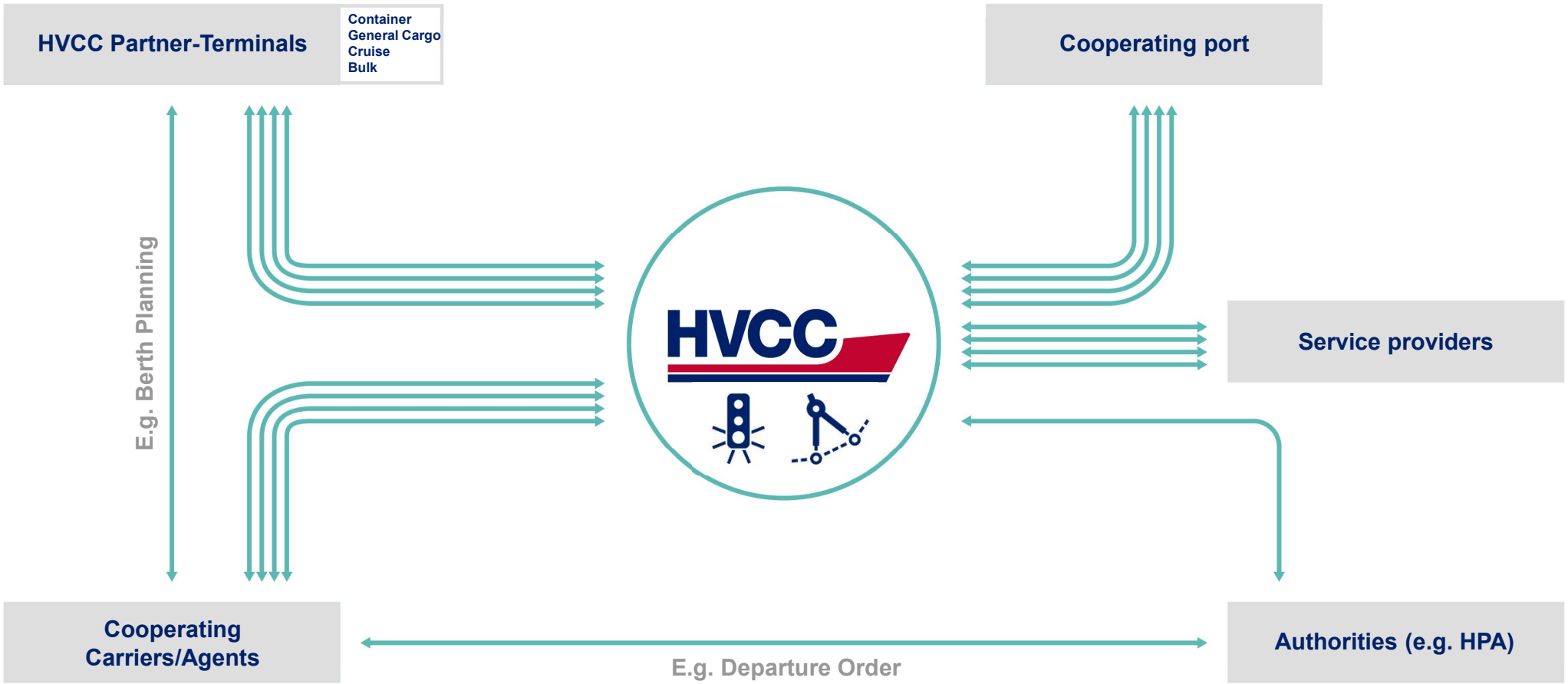
Only bilateral communication between participants

No consideration of interactions of individual planning



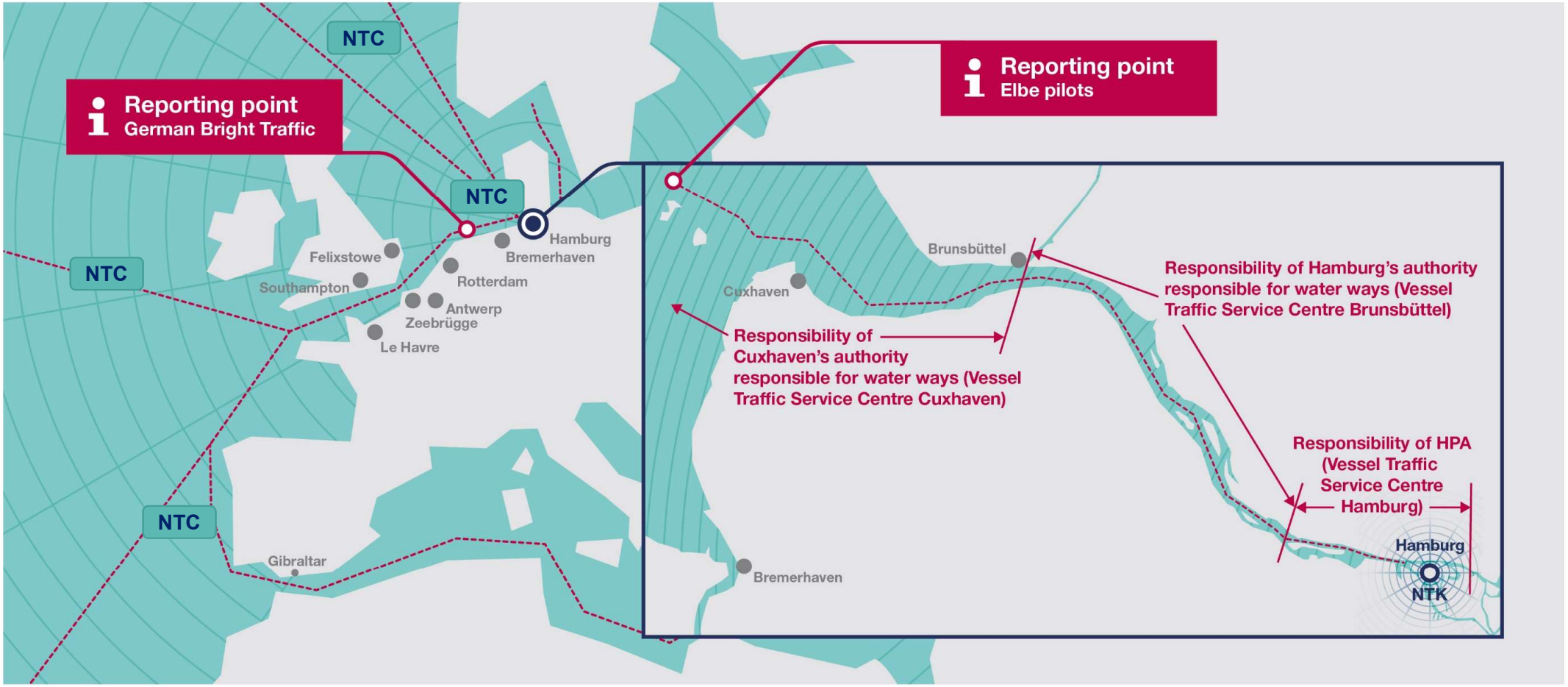
Operational planning coordinated by NTC

Communication channels of the NTC partners and coordination with the Port Authority of the HPA



NTC‘s coverage extends far beyond Port of Hamburg

Geographical coverage and responsibilities



Working areas and services of NTC

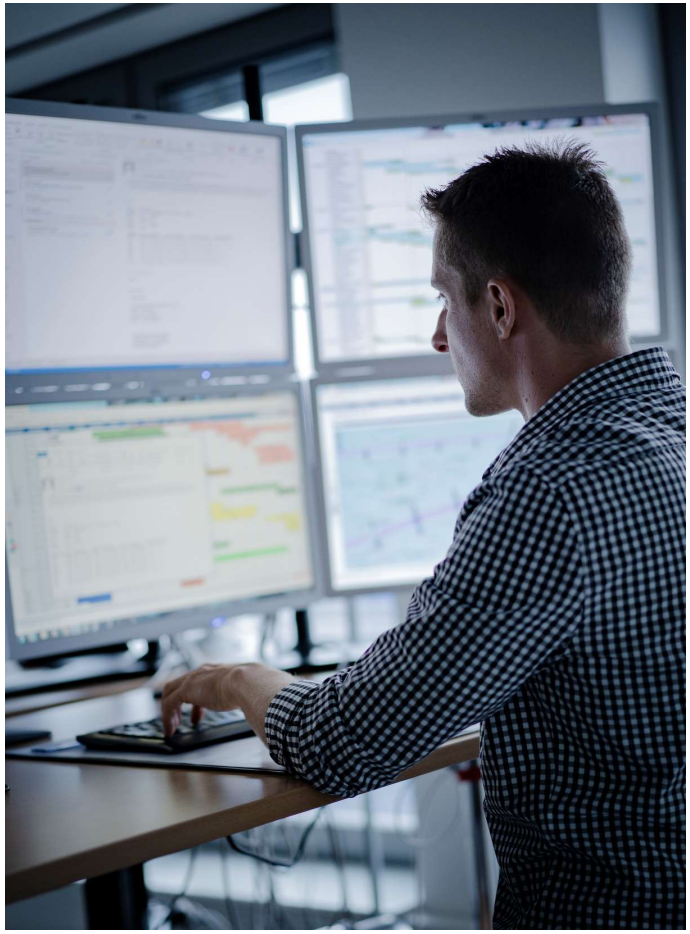
Overview

Operating

- Early identification of potential interdependencies on River Elbe
- Dynamic development of solutions after consulting with all involved stakeholders to optimise passage to Port of Hamburg
- Coordination of traffic management with the port authority as a uniform planning basis

Administration

- Observation of vessels heading to Port of Hamburg on their rotation in Northern Europe
- Tracking of vessels in previous ports
- Consideration of forecasts for wind, weather and water levels
- Calculation of passage windows
- Providing carriers / vessels with navigational information for passage to / from Port of Hamburg



Vorteile durch 24/7 Leistungen der NTK

Overview

Carrier

- Reliable planning by providing smooth passage
- Reduction of bunker/energy consumption and emissions through optimized inflow control and optimal speed
- Port call optimisation

Terminal

- Optimized planning of resources (quay walls and staff) through reliable arrival and departure times of the vessels.
- Central data aggregation and coordination
- Single Point of Contact

Port / Authorities

- Optimal pre-sequence planning of vessels
- Obtaining an operational solution for passage conflicts as a decision base for sovereign tasks
- Efficient use of port infrastructure

Service Providers

- Overview of overall traffic situation
- Operational involvement in the traffic management system
- Improved services quality to customers

The result: Realization of significant savings potentials

This requires collaboration of all stakeholders (carrier, vessel, terminal, authorities, service providers)

At 14 kn instead of
18 kn

22 t
Bunker Saving

66 t
Less CO_2 Emissions

Mehrwerte der HVCC-Koordinationsleistungen

Überblick

Carrier

- Planning reliability
- Reduction of bunker costs, energy consumption and emissions
- Optimization of port calls / schedules

Port / Authority

- Optimized pre-sequencing of vessels
- Efficient use of port infrastructure
- Unique public-private partnership

Service Providers

- Overview of traffic management
- Operational integration into traffic flow management
- Improved individual resource planning

Terminal

- Improved resource planning
- Centralized data aggregation, interpretation and coordination
- Single point of contact

HVCC Port Collaboration Platform

HVCC-Software shows transparent traffic situation

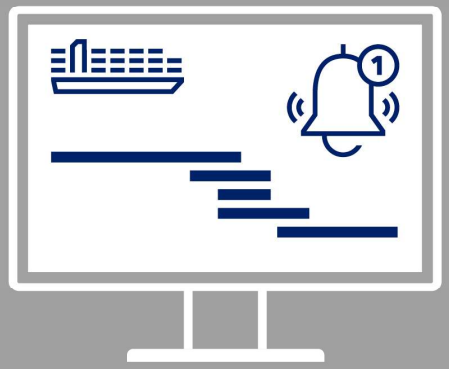
Tailor-made software solutions for partners

Overview of partners

HVCC	HPC	DAKOSY	vesseltracker.com
Project owner	Project management	Software development	AIS-partner

Functional overview

Schedules / vessel´s data

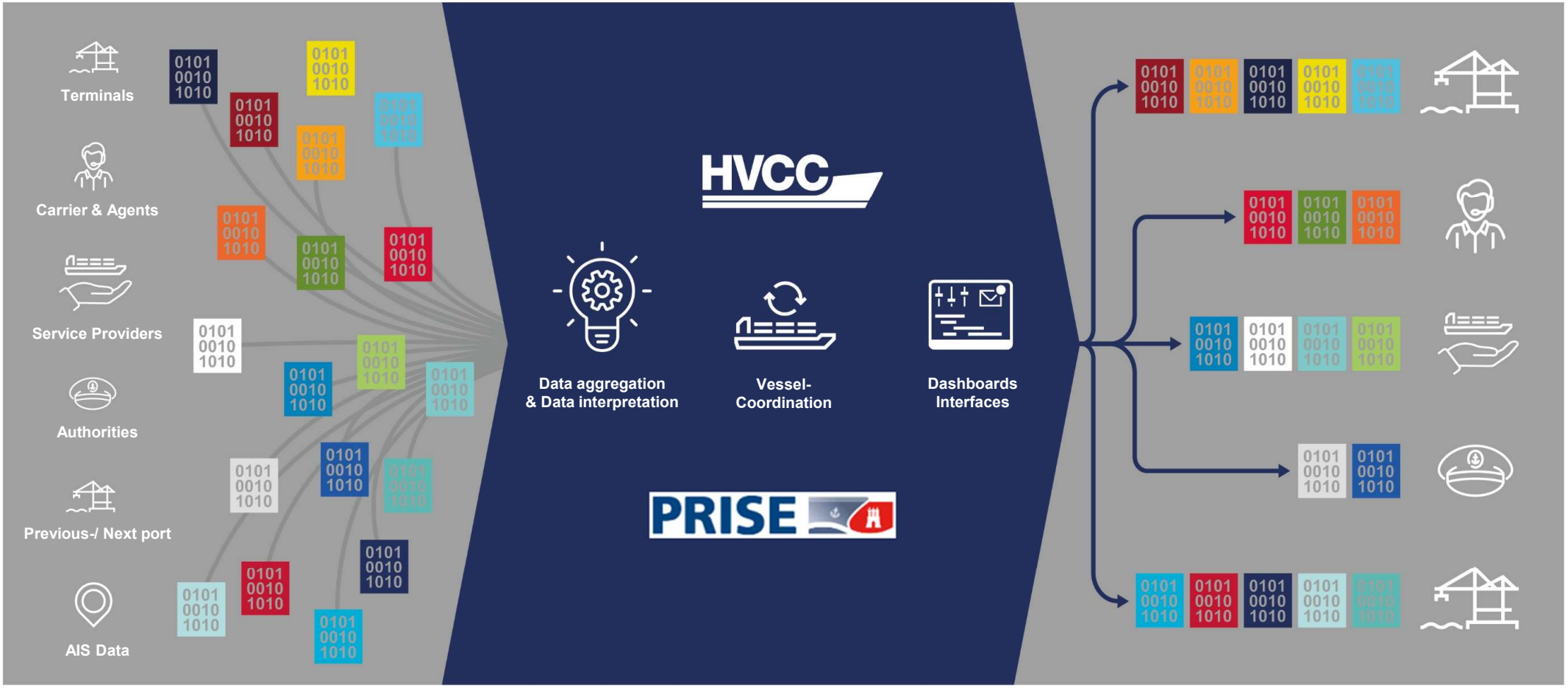


Gantt chart overview

AIS-data

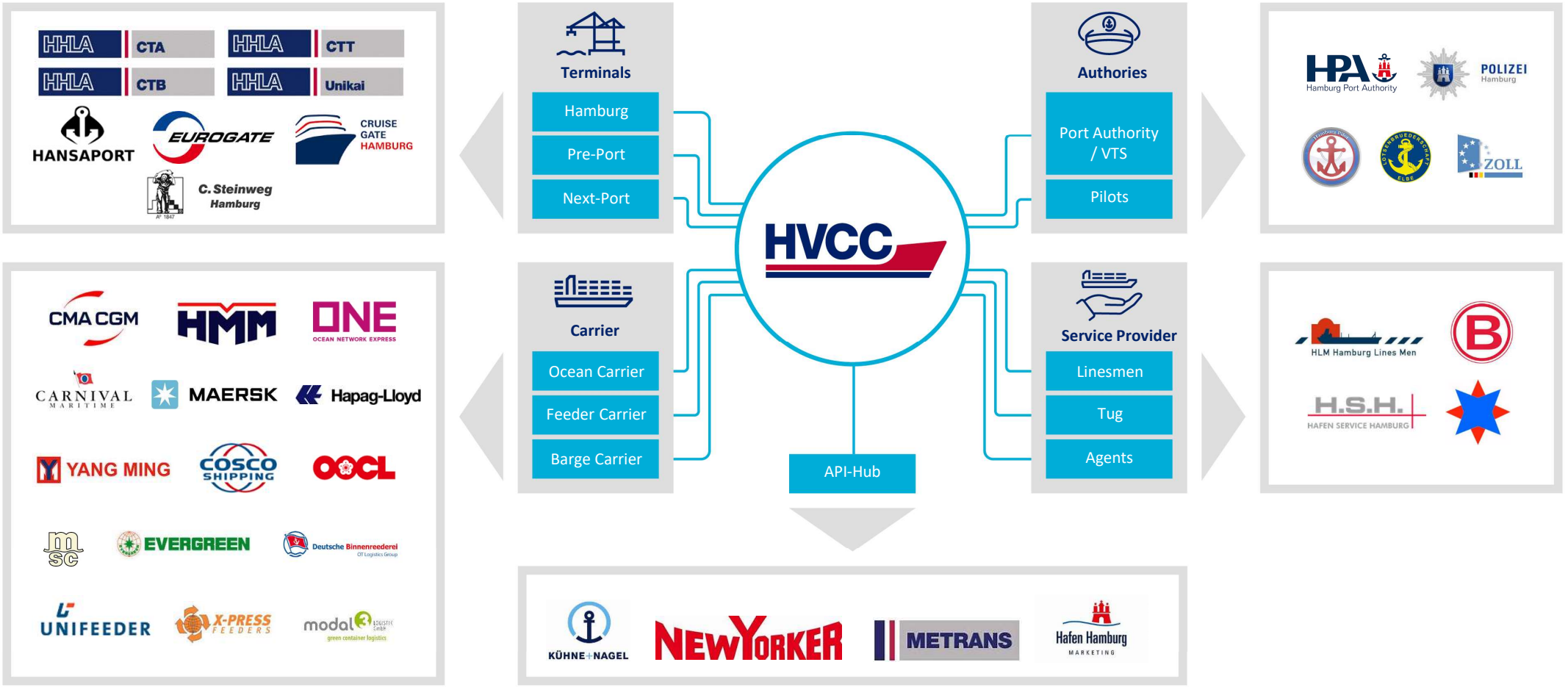
HVCC Port Collaboration Platform today

Over 1,000 users in the Port of Hamburg



Extensive coverage of the business partners in the port

Overview of HVCC partners with access to HVCC software, dashboards, PRISE system or API hub.



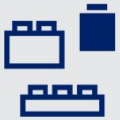
HVCC-Dashboard as a synchronous planning base

Continuous development of functions

Extensive data and information sources

Coordinated traffic situation (time and geographically)

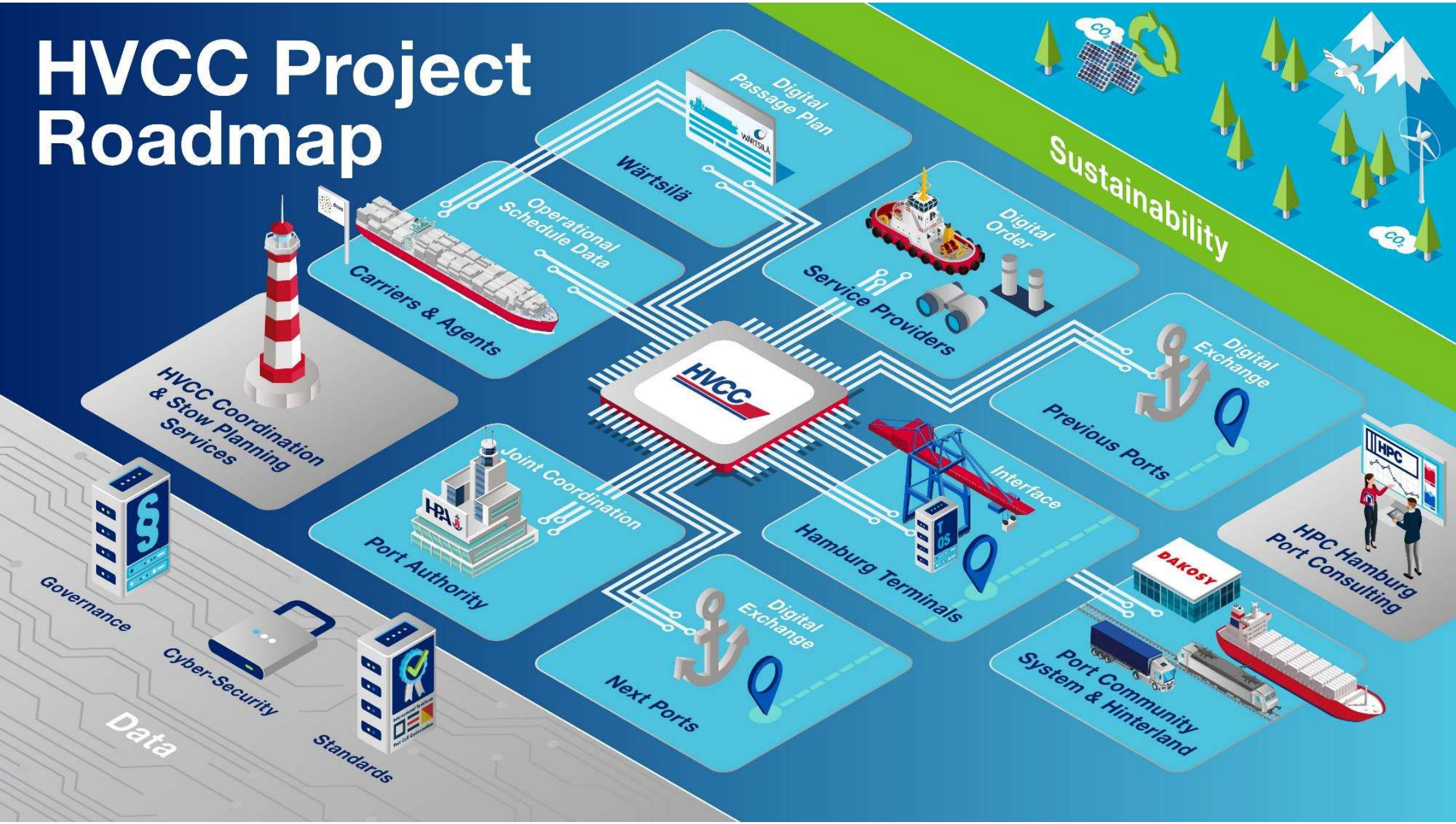
Group-specific event messages and alert function

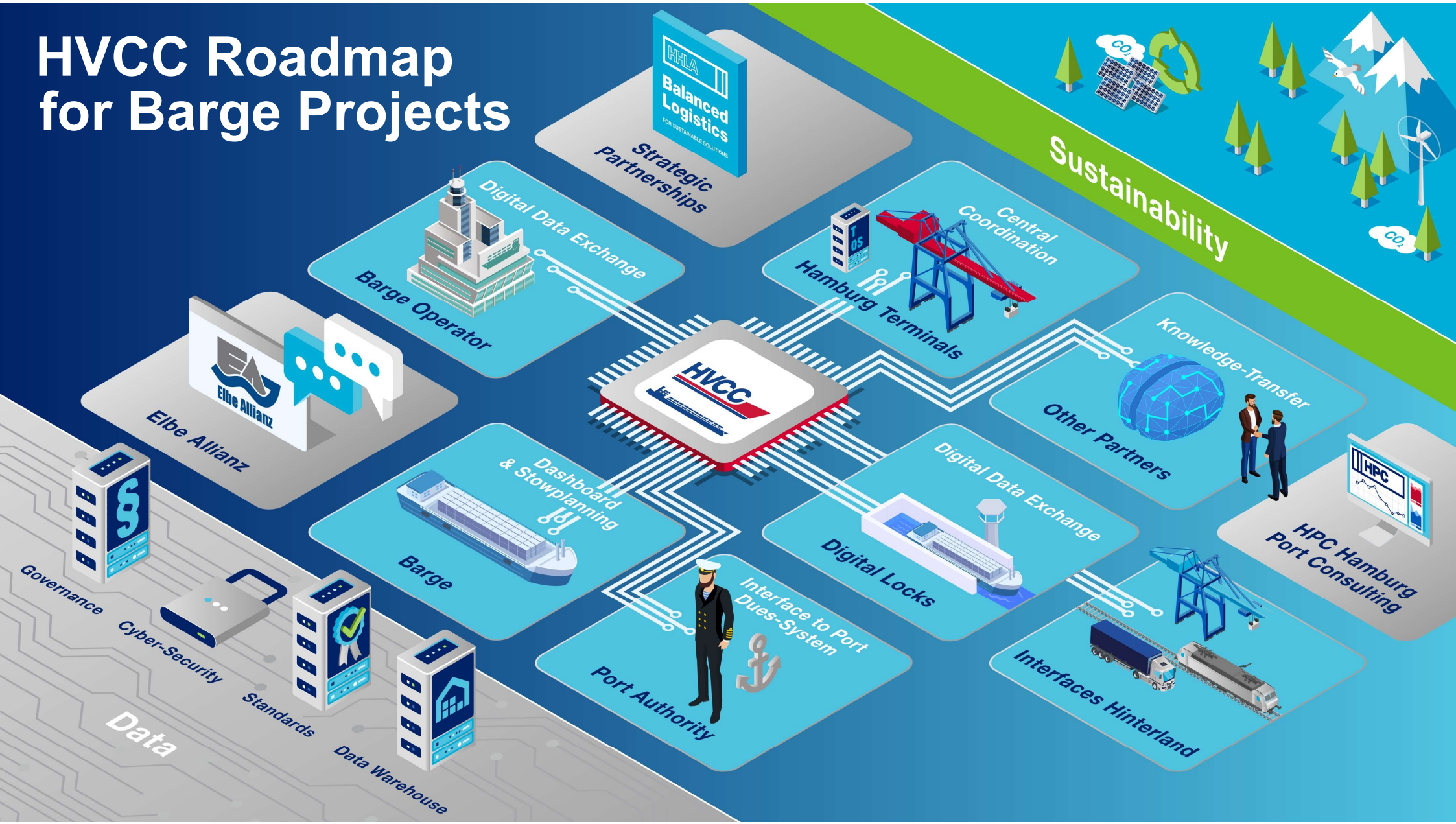


Content adaptable to individual needs

Direct data exchange with previous / next ports and carriers

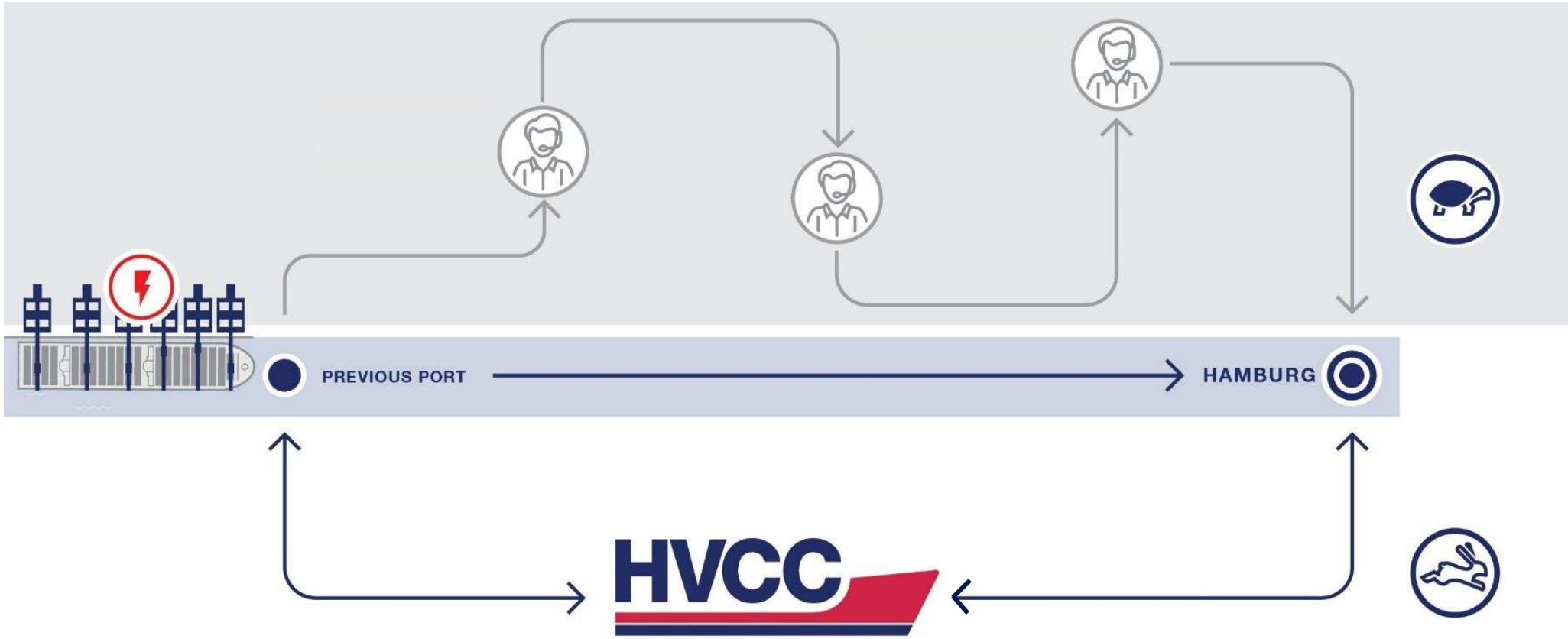
Direct ordering of services


HVCC Project Roadmap
Sustainability
Digital Passage Plan
Wärtsilä
Operational Schedule Data
Carriers & Agents
Digital Order
Service Providers
HVCC Coordination & Stow Planning Services
HVCC
Digital Exchange
Previous Ports
Joint Coordination
Port Authority
Interface
Hamburg Terminals
HPC Hamburg Port Consulting
Digital Exchange
Next Ports
DAKOSY
Port Community System & Hinterland
Governance
Cyber-Security
Standards
Data


HVCC Roadmap
for Barge Projects
Sustainability
HHLA
Balanced Logistics
FOR SUSTAINABLE SOLUTIONS
Strategic Partnerships
Digital Data Exchange
Barge Operator
Central Coordination
Hamburg Terminals
HVCC
Elbe Allianz
Elbe Allianz
Knowledge-Transfer
Other Partners
HPC
HPC Hamburg
Port Consulting
Dashboard & Stowplanning
Barge
Digital Data Exchange
Digital Locks
Interface to Port Dues-System
Port Authority
Interfaces Hinterland
Governance
Cyber-Security
Standards
Data Warehouse
Data

Data exchange not standardized and too slow

Short transit time requires transparency and direct data exchange



Kontakt

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