



HAMBURG PORT AUTHORITY AÖR

# C-ITS for logistics and the port of Hamburg

## Moving to an Intelligent Hinterland Transport Infrastructure

## The port of Hamburg is the economic heart in the middle of Hamburg



© HHM



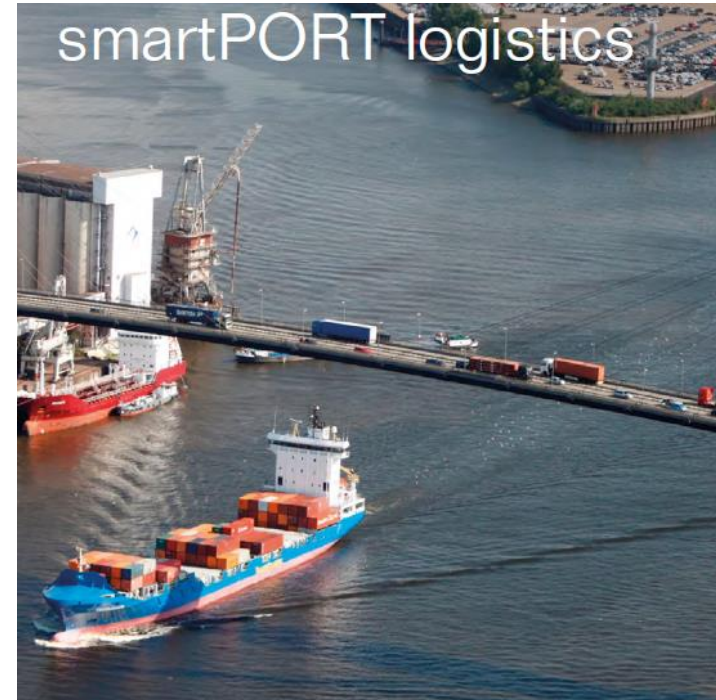
Source: HPA



[www.mediaserver.hamburg.de/C.O.Bruch](http://www.mediaserver.hamburg.de/C.O.Bruch)

## The priority objectives of the initiative are

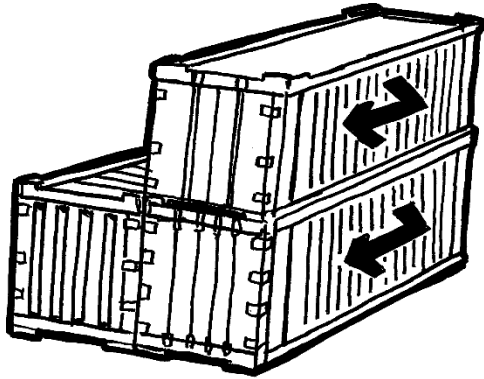
- Efficient management and use of the existing infrastructure
- The development of a new, intelligent infrastructure in the Port area
- Optimised flows of information for efficient handling of flows of goods



Source: HPA



## Globalization for digitization

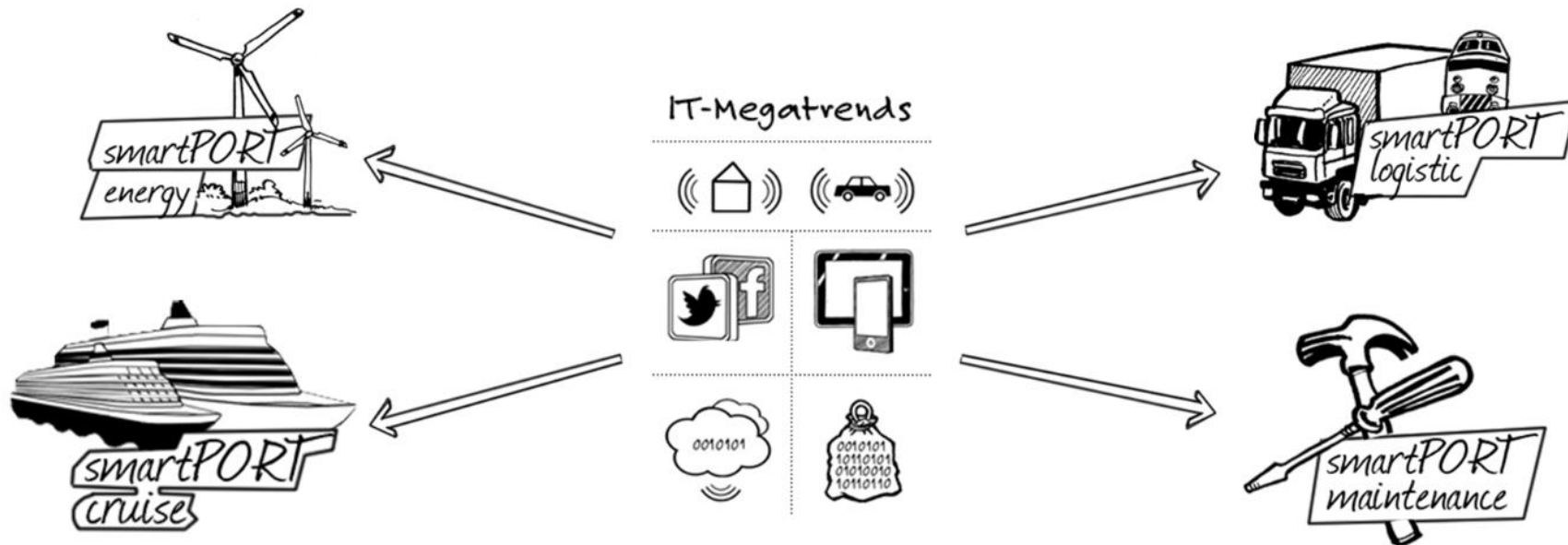


The port of Hamburg is no longer just a pure expert in container handling ...

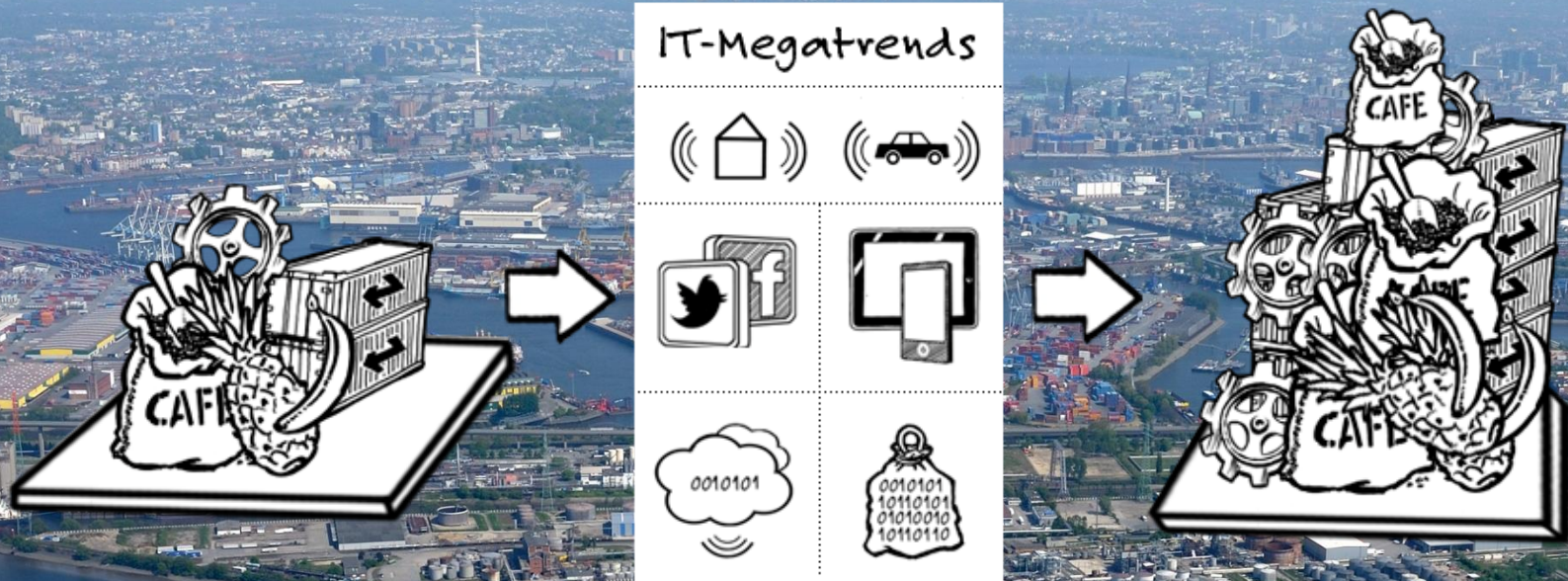


... but uses digitalization to increase the efficiency and effectiveness of its infrastructure

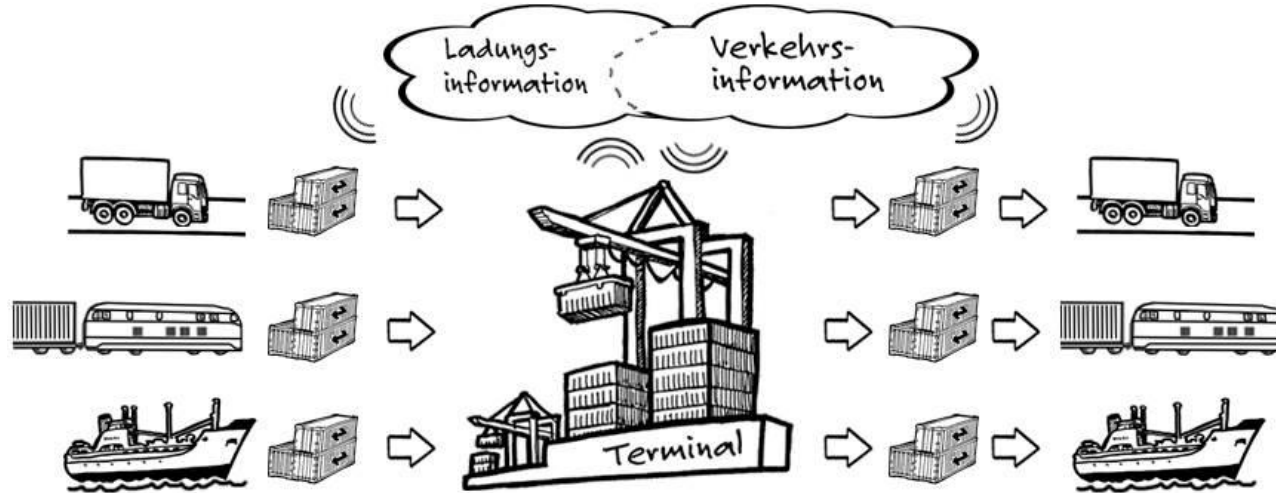
## smartPORT Hamburg – the digital gate to the world



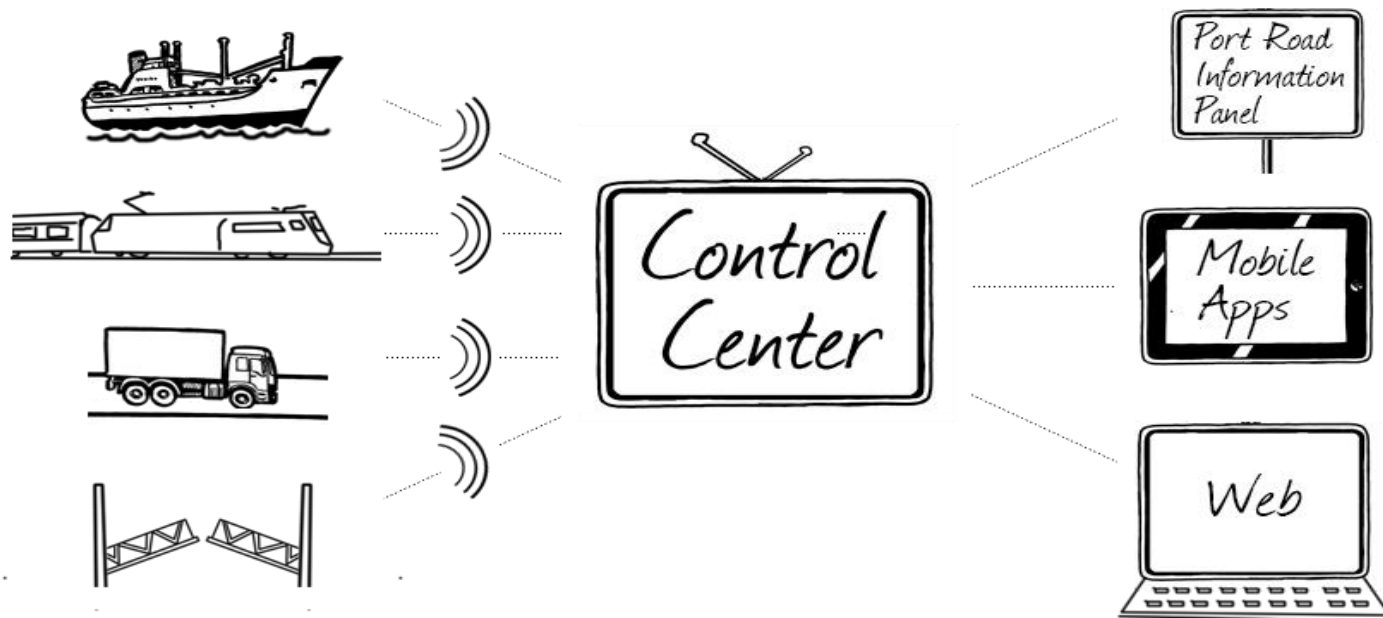
## smartPORT logistics – doubling the capacity without doubling the area



Of course, the infrastructure needs to be further expanded and adapted. But we must also use the existing system more intelligently and efficiently!

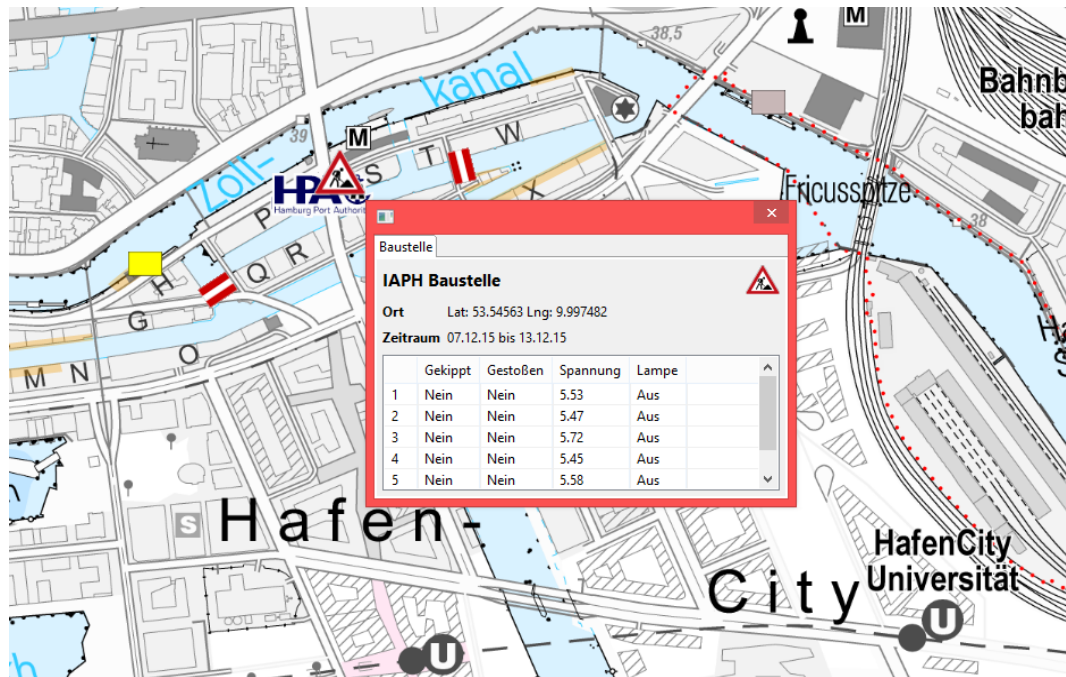


## Port Traffic Centers

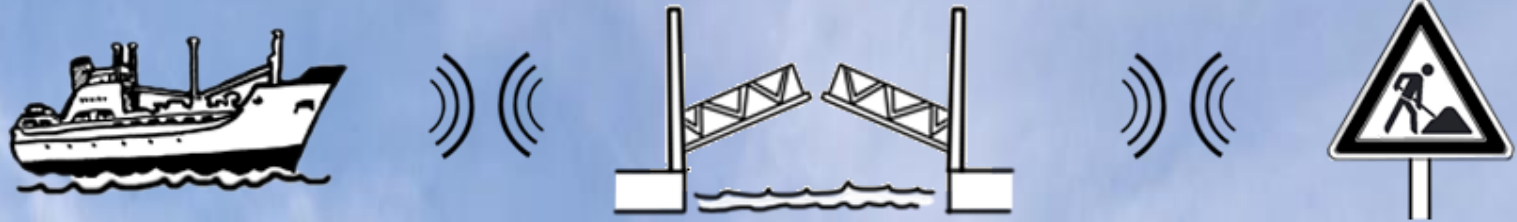


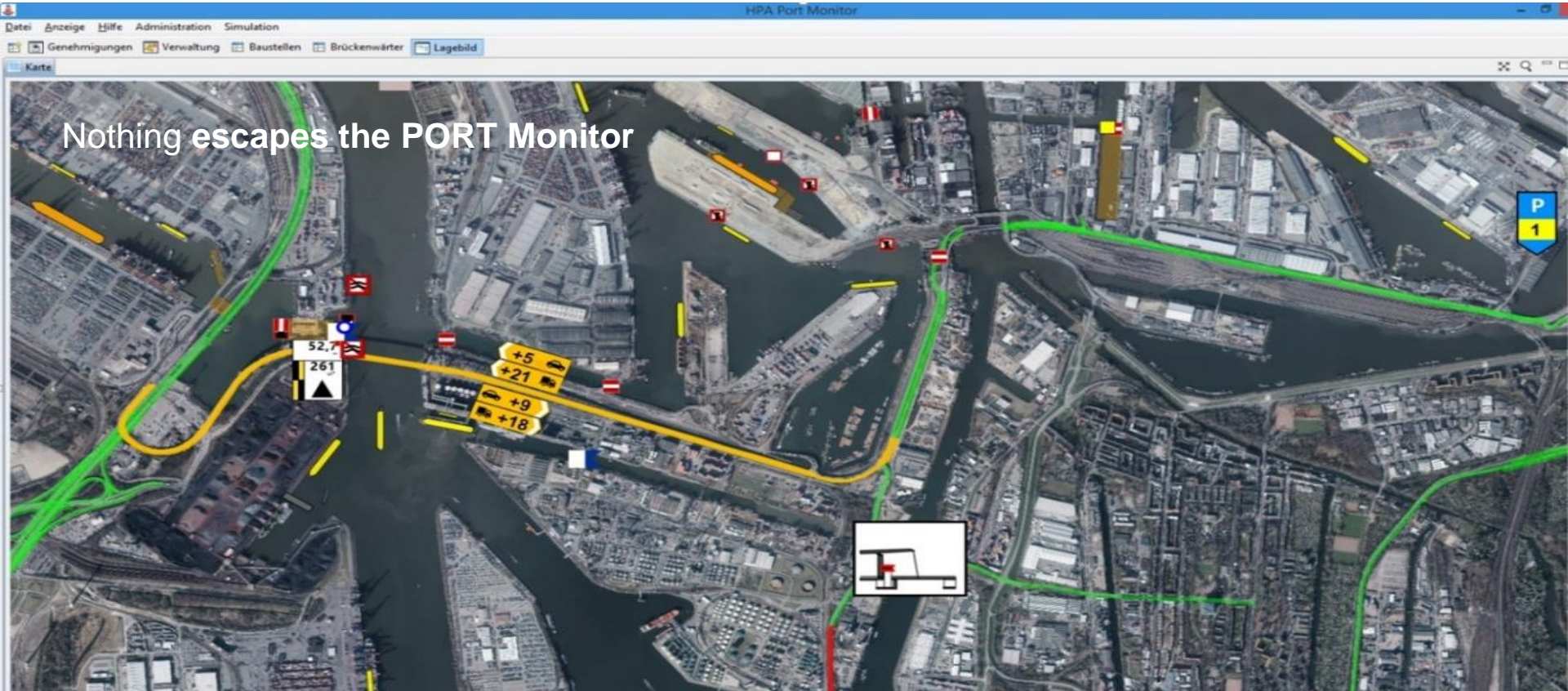


## C-ITS „Smart Tag“ solution



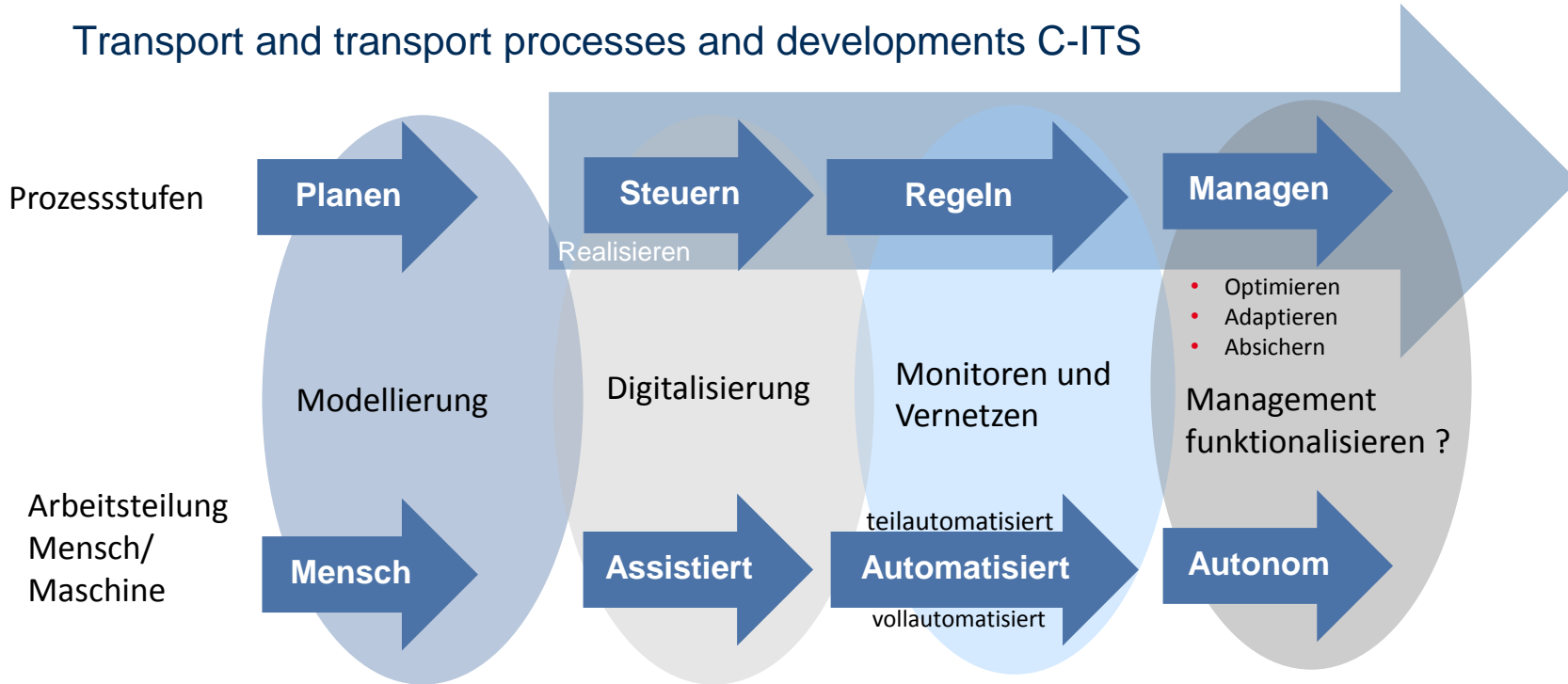
# Integration: Traffic and Infrastructure Management







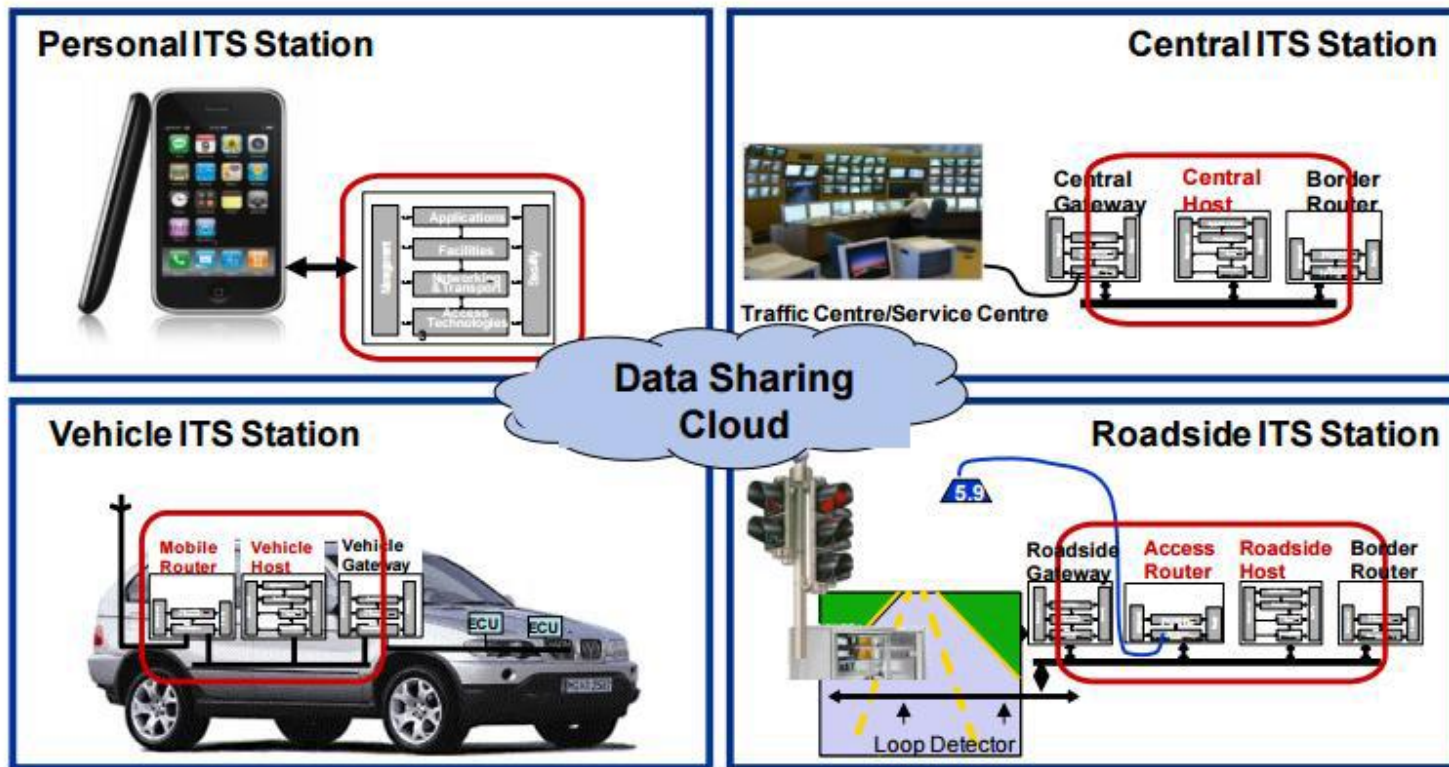
## Transport and transport processes and developments C-ITS





## Challenge and strategy for C-ITS

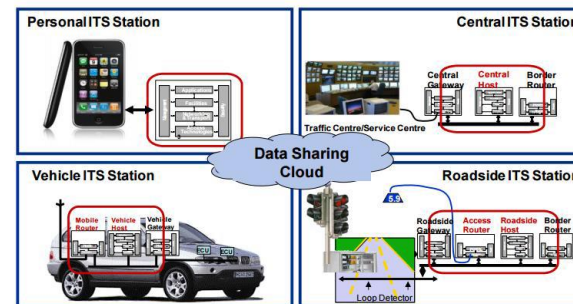
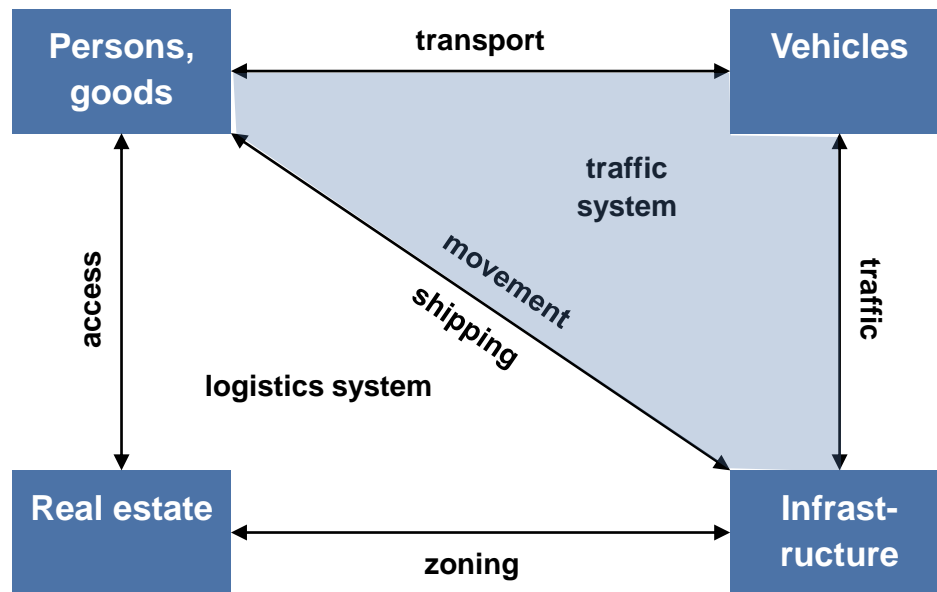




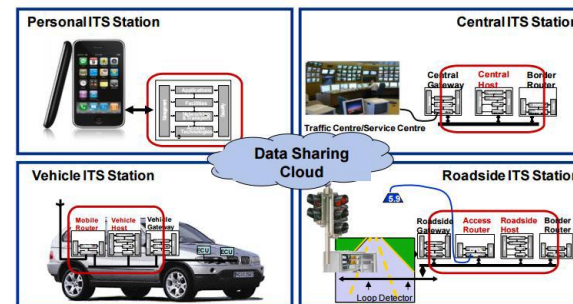
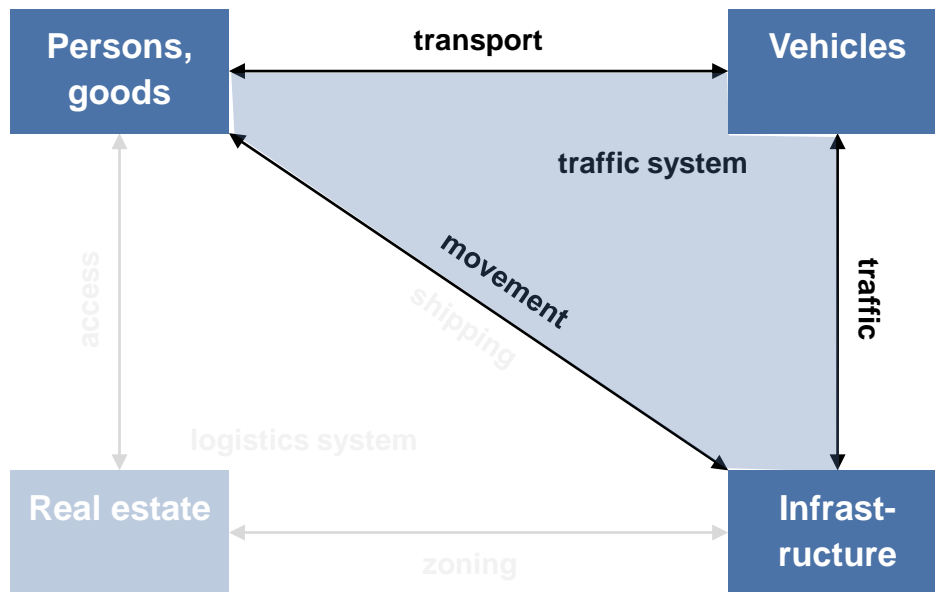
Source:  
Guide about  
technologies

for future C-ITS service  
scenarios, 18/03/2015,  
Ertico-ITS Europe

## Focus of the C-ITS strategy

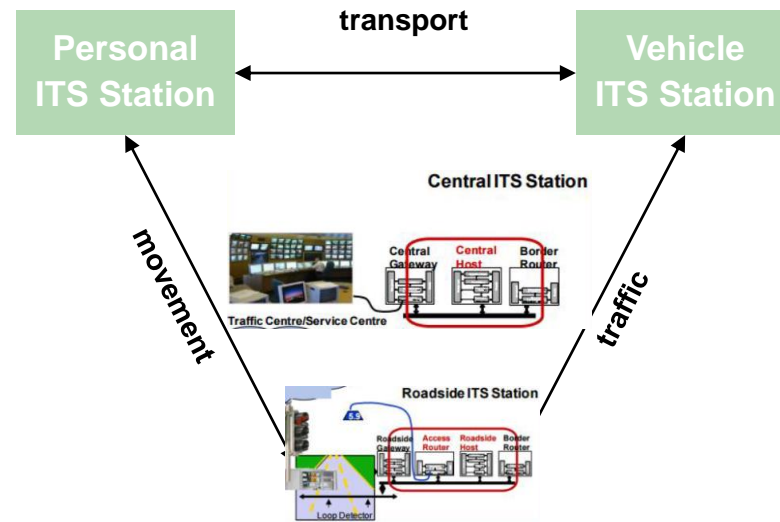
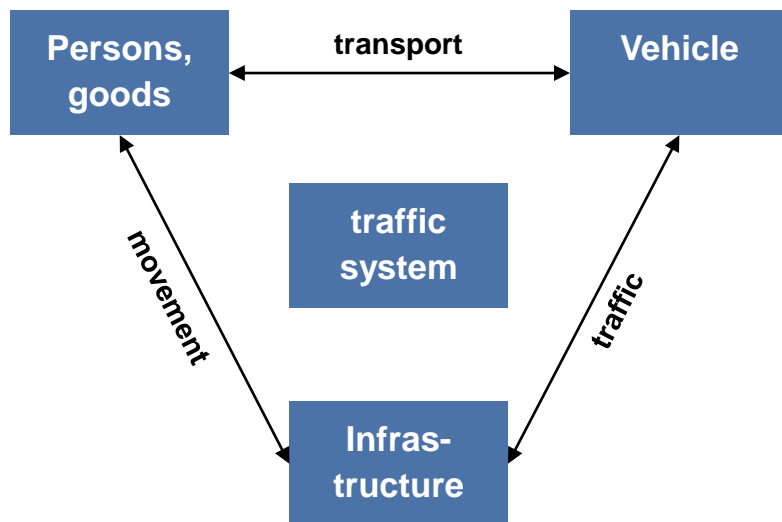


## Focus of the ITS strategy

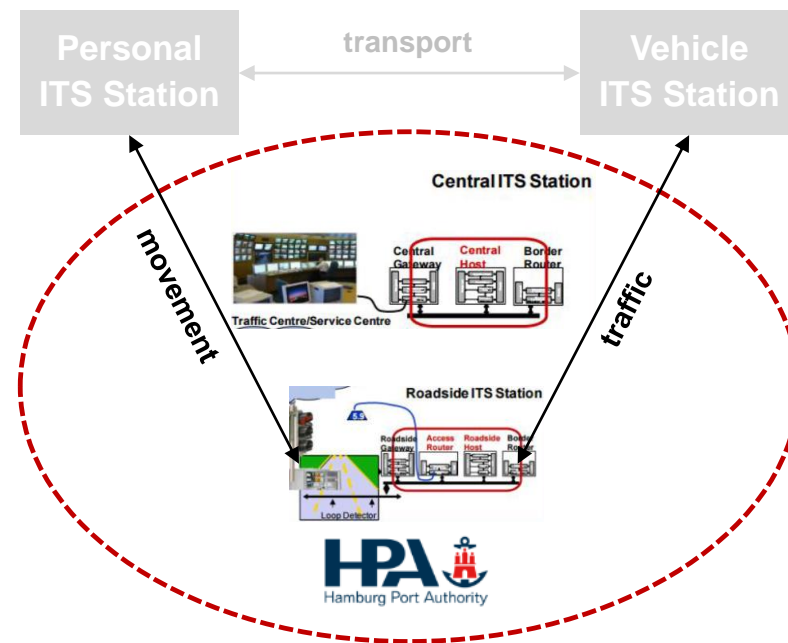
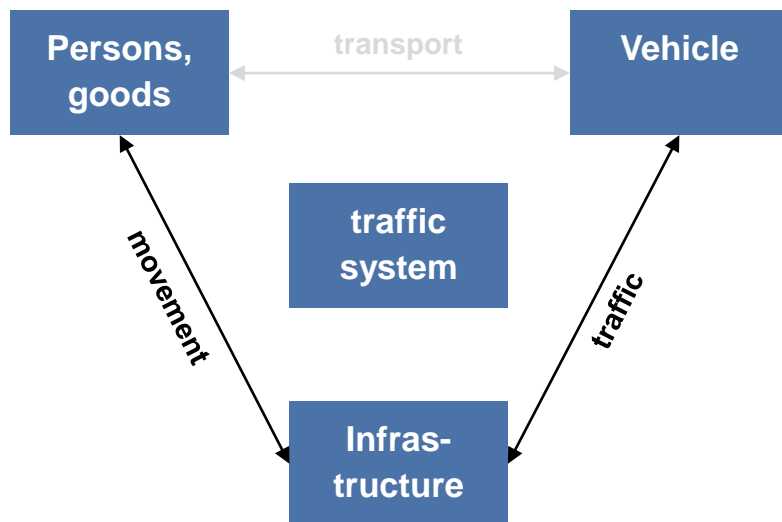




## Focus of the ITS strategy



## Focus of the ITS strategy

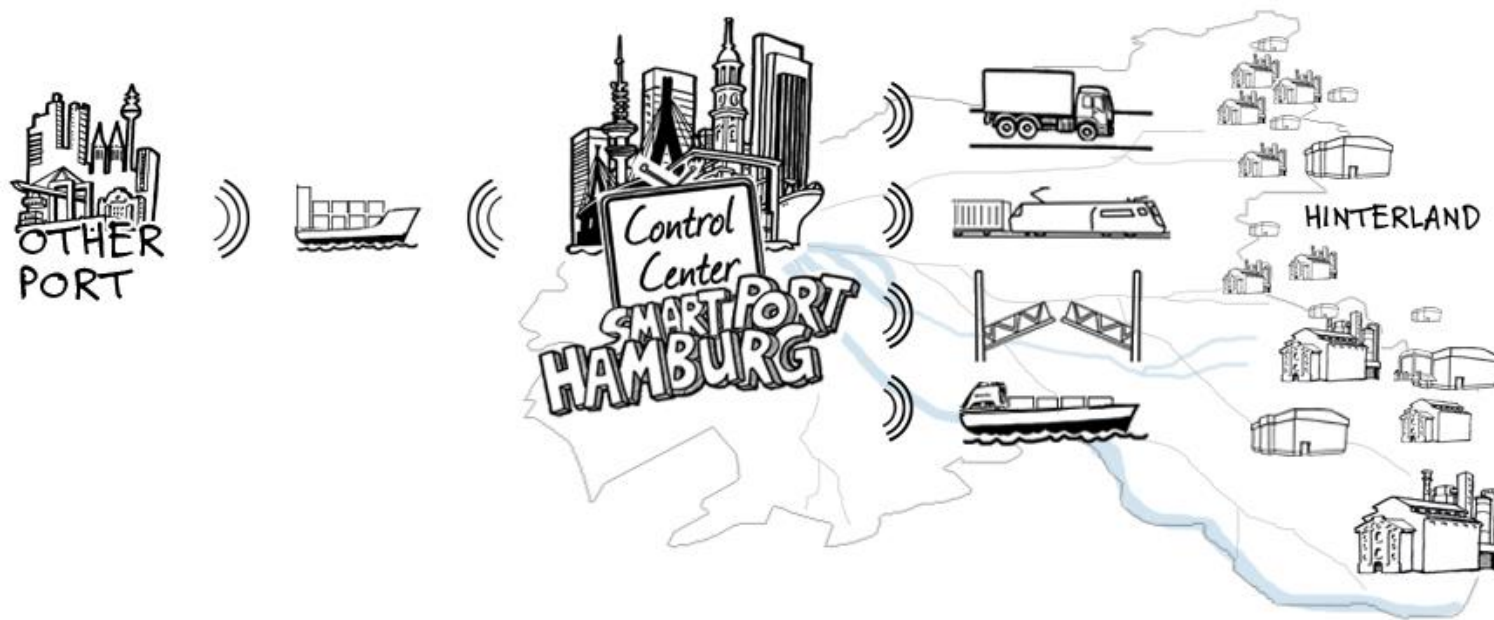


## A dynamic car park management system for the port

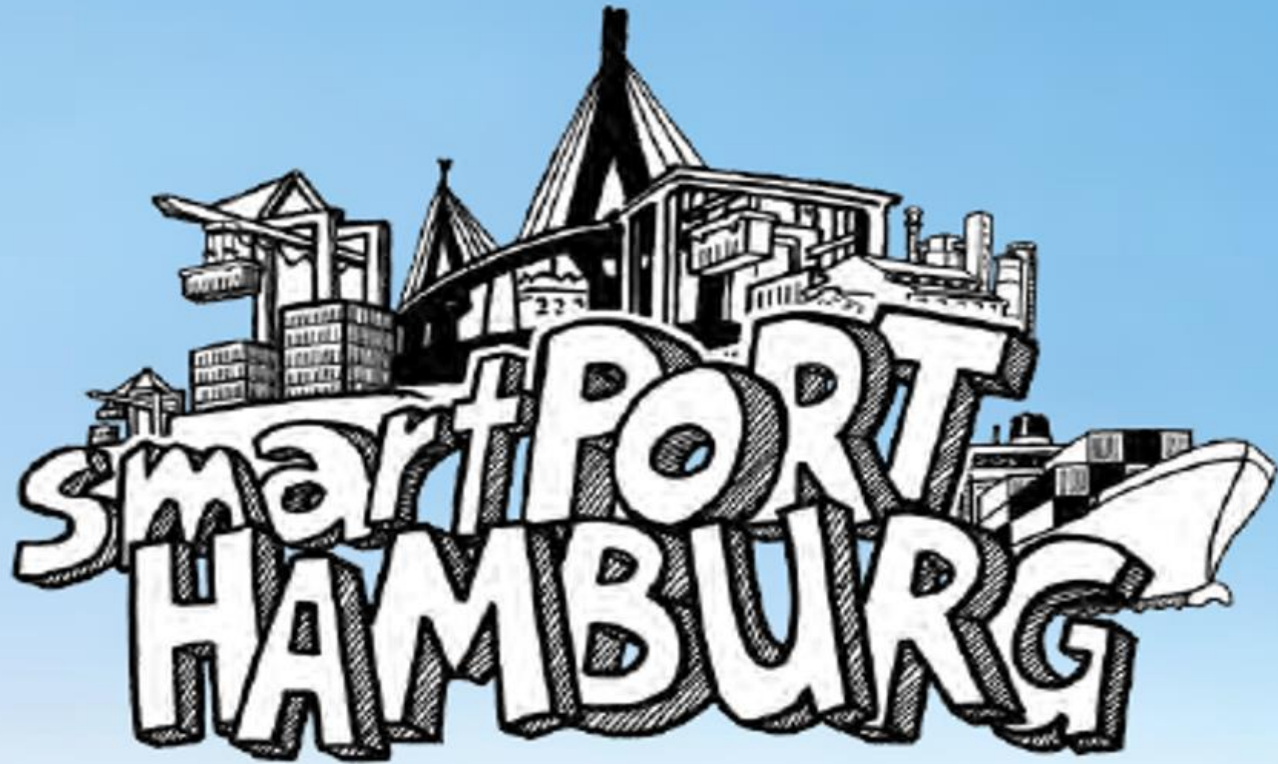


PrePortParking

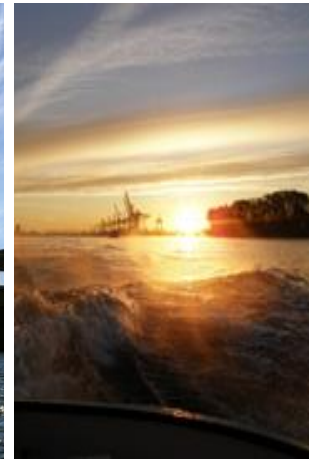
## Our vision: Digital linking of traffic and cargo information along the entire value chain







I am looking forward to your questions



**Hermann D. Grünfeld**

Hamburger Port Authority

Neuer Wandrahm 4

20457 Hamburg

Tel. (040) 42847 - 3020

E-Mail: [hermann.gruenfeld@hpa.hamburg.de](mailto:hermann.gruenfeld@hpa.hamburg.de)