

PORT OF HAMBURG



Creating value through digitization,
automation and energy transition in
the Port of Hamburg



Maciej Brzozowski

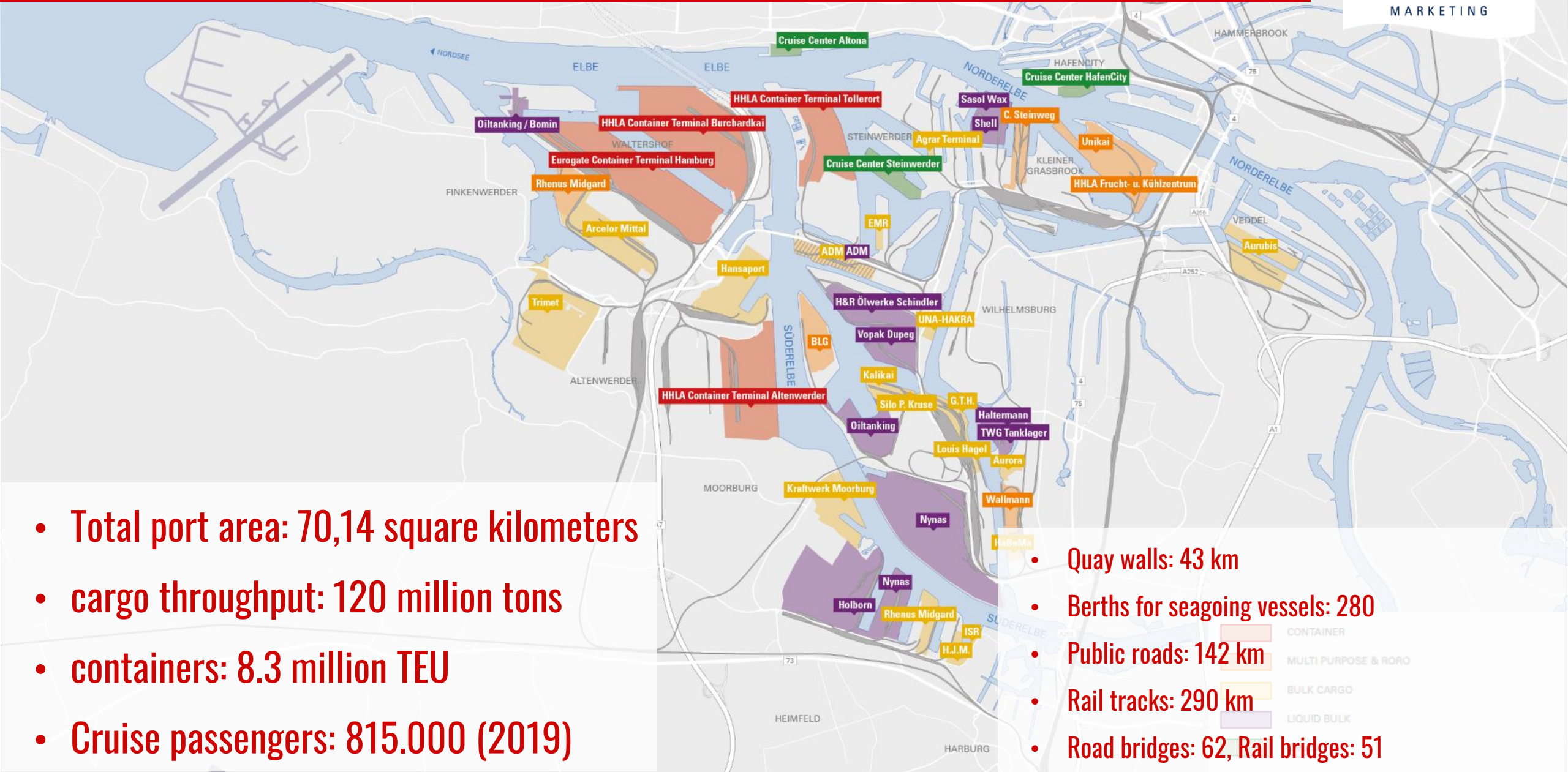
Hafen Hamburg Marketing
Gdańsk, March 17th, 2023

Goals of Strategic Development

- Value creation and quality
- Climate protection
- Innovation
- Focus on customers and competitiveness

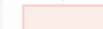





The Port of Hamburg - Key Data 2022



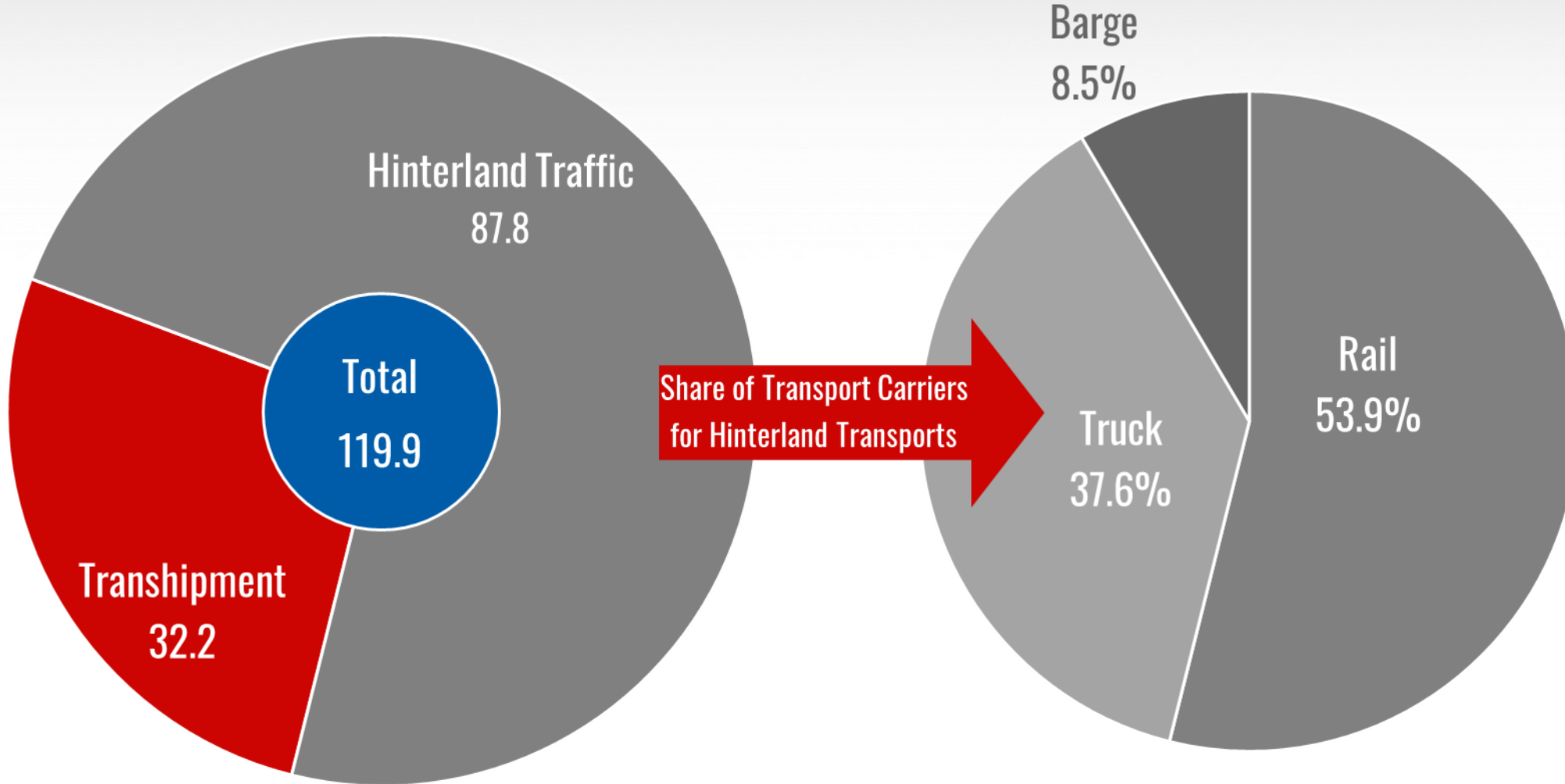
- Total port area: 70,14 square kilometers
- cargo throughput: 120 million tons
- containers: 8.3 million TEU
- Cruise passengers: 815.000 (2019)

- Quay walls: 43 km
- Berths for seagoing vessels: 280
- Public roads: 142 km
- Rail tracks: 290 km
- Road bridges: 62, Rail bridges: 51

	CONTAINER
	MULTI PURPOSE & RORO
	BULK CARGO
	LIQUID BULK

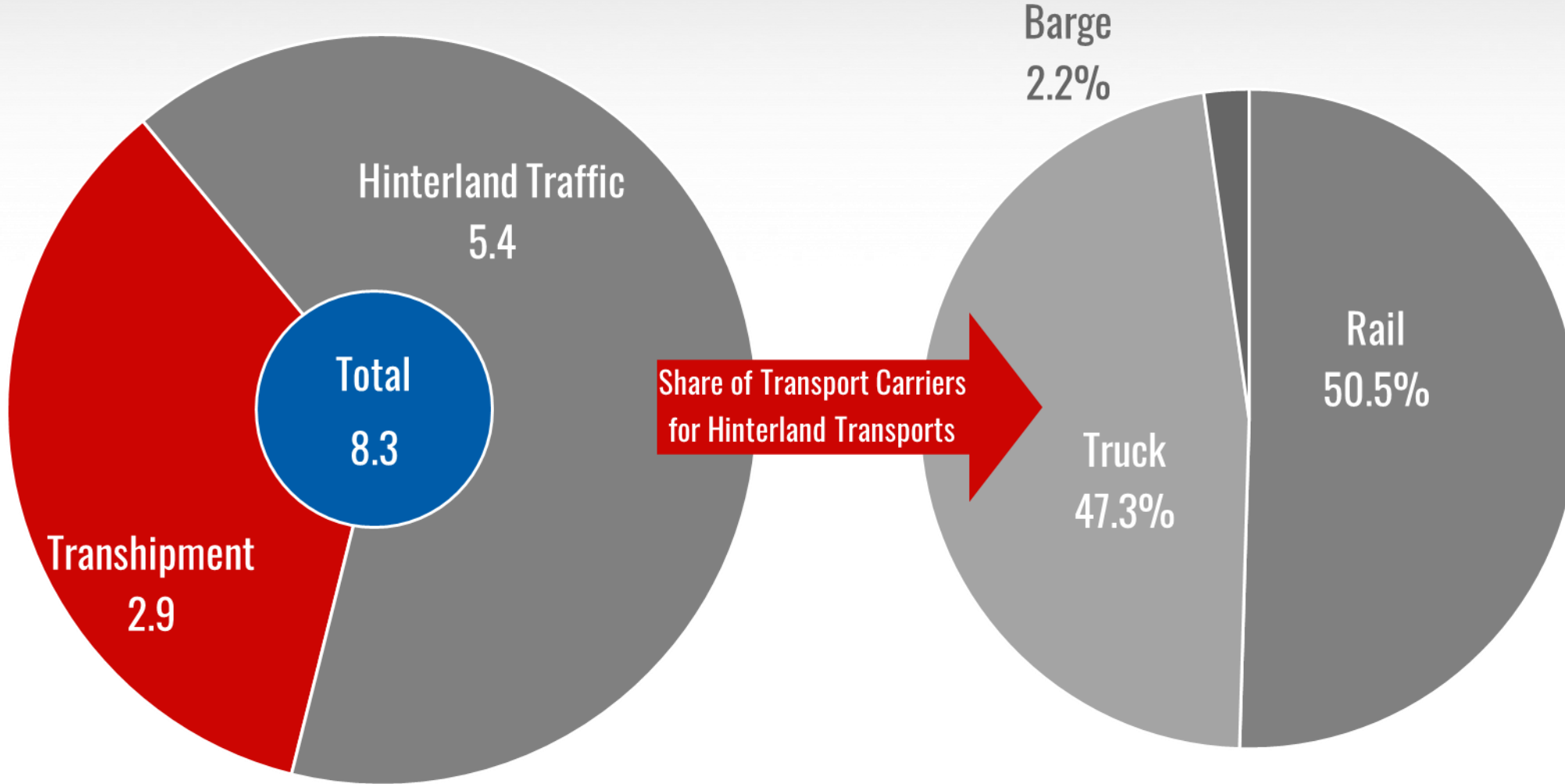
Modal Split in Hinterland Traffic 2022

Million Tons



Modal Split in Container Hinterland Traffic 2022

Million TEU



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Possible discrepancy in sum due to rounding

Digital test field Hamburg Port - Digital Port Twin

- **Starting situation:** four independent control stations currently regulate the traffic situation in the port
- A common port traffic center that efficiently links and coordinates traffic and infrastructure planning is a goal in the Port Development Plan 2025
- Digital Port Twin, a continuation of HPA's AR and VR projects, aims to support the planning of future infrastructure projects, such as the Port Traffic Center



A Vision of the future Port Traffic Center

Digital test field Hamburg Port - Digital Port Twin

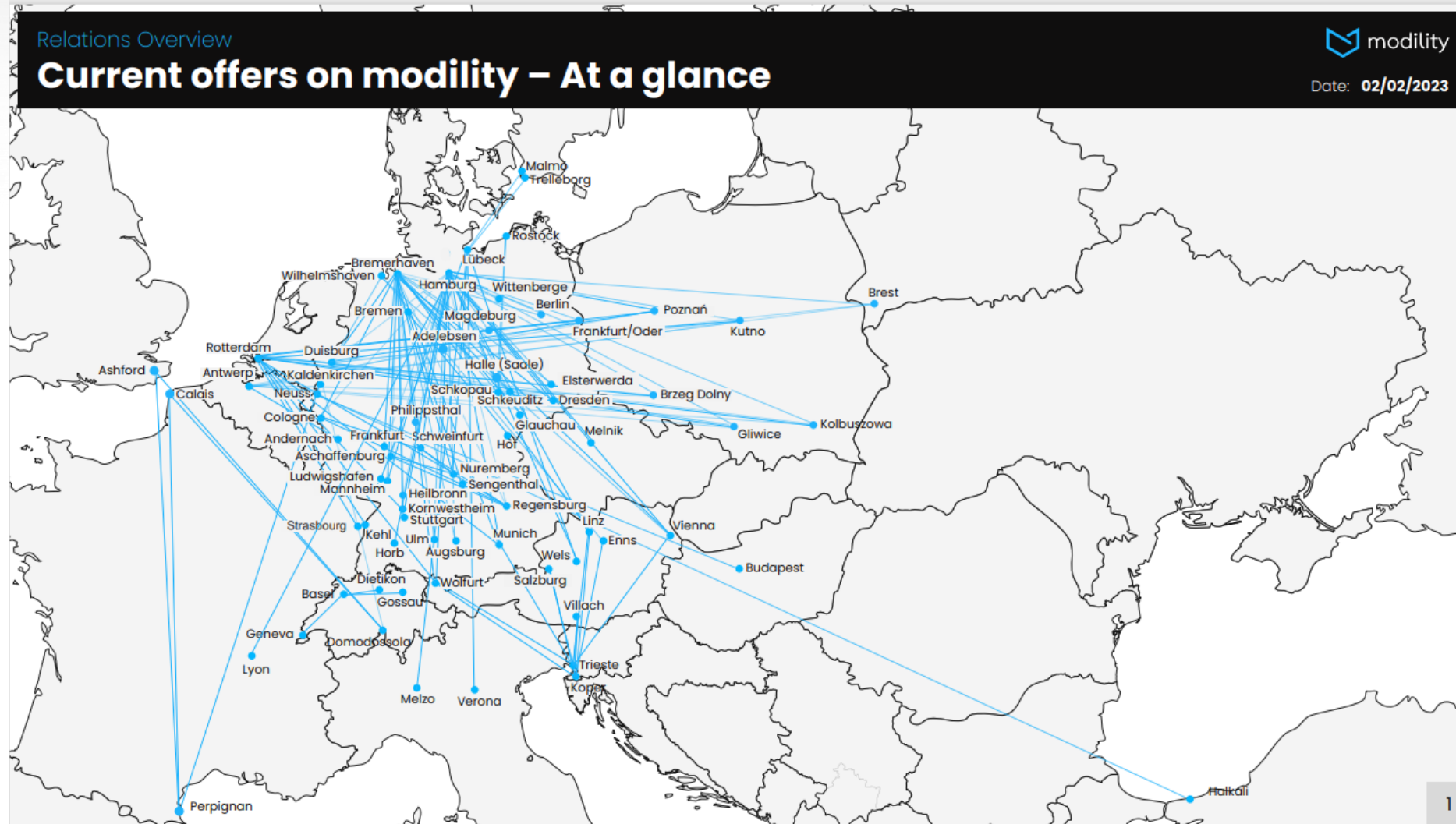
- The Digital Port Twin enables to plan complex processes better, more securely and efficiently
- The solutions thus created can be transferred internationally and nationally to other ports
- The goal is to build a virtual port traffic center as a so-called Digital Port Twin. This is the precursor to the real Port Traffic Center



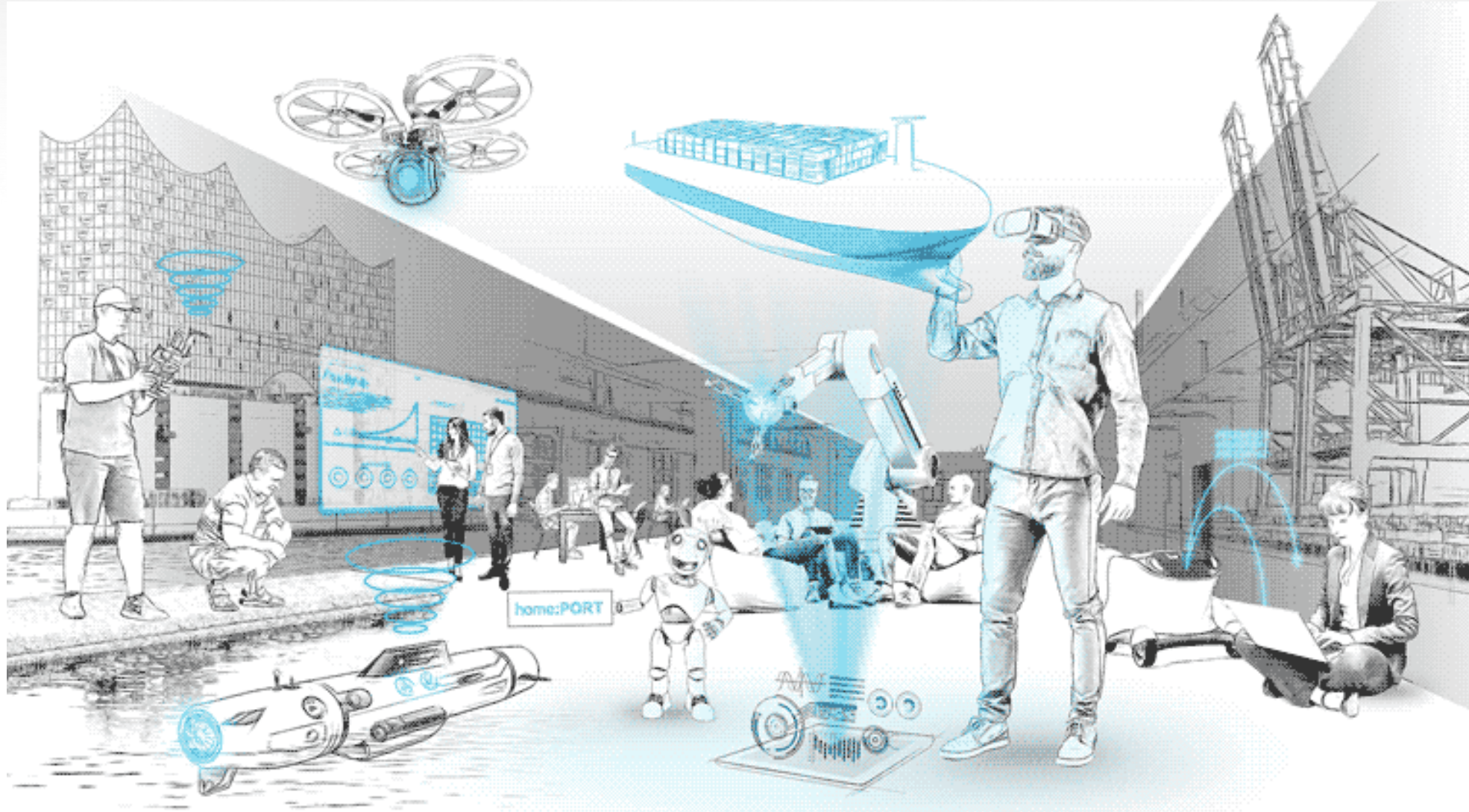
The digital and networked control center of the future

Innovation in intermodal connection

Modality.com offers new level of CX



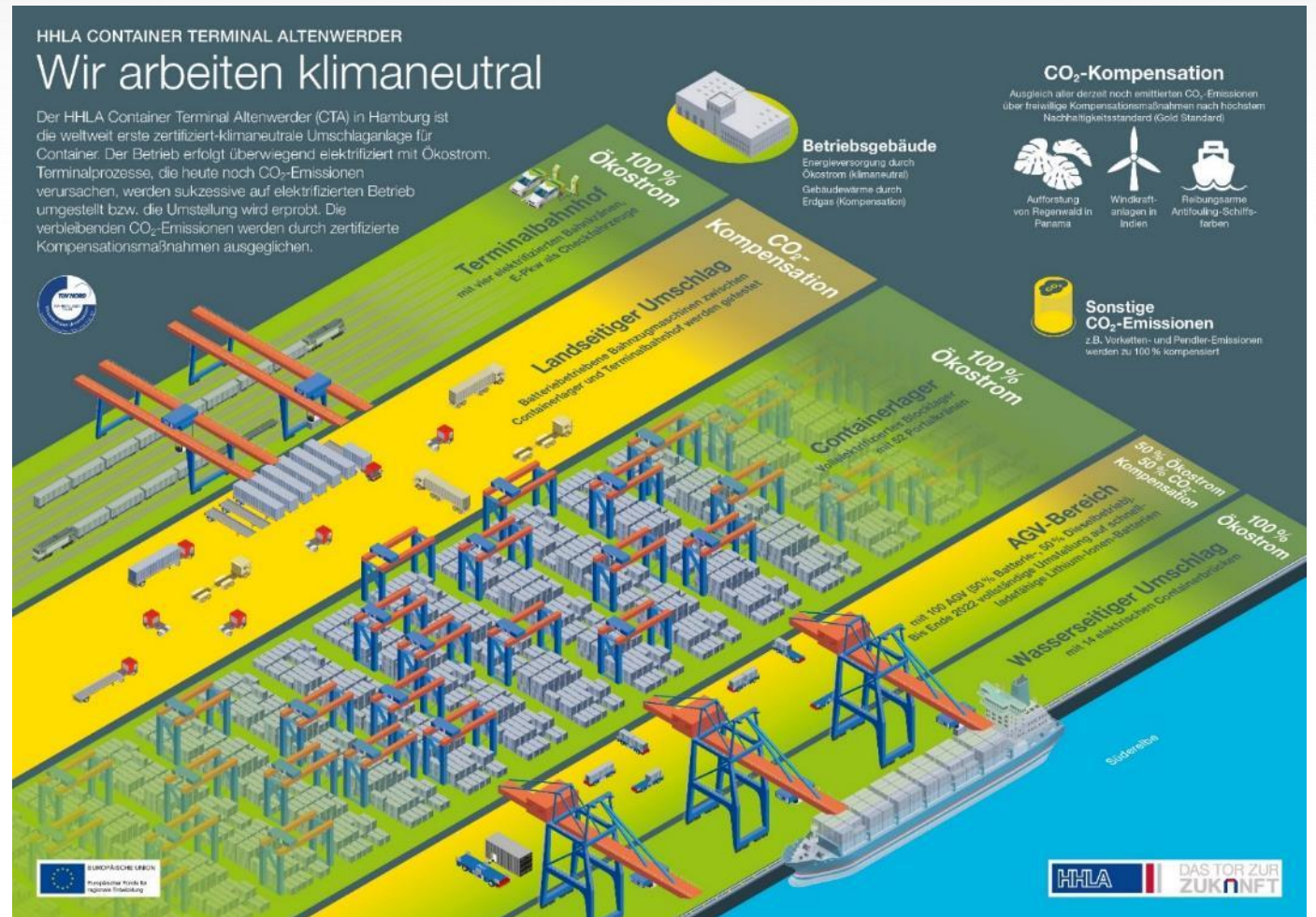
Hamburg's HomePORT – a lab for technologies of the future



Container Terminal Altenwerder

The Port of Hamburg will be climate neutral by 2040.

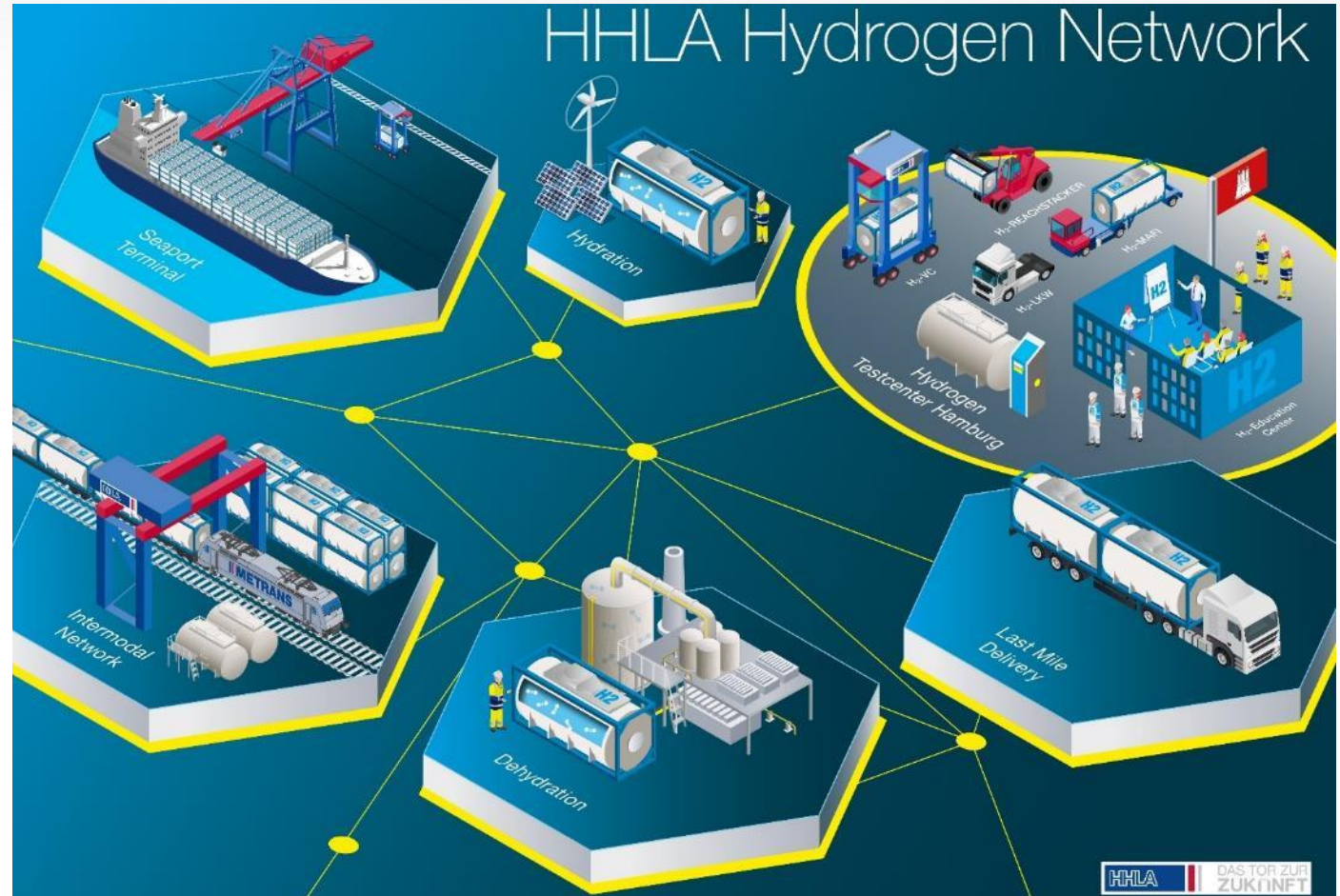
One of Hamburg's first achievements is creation of a zero-emission container terminal by HHLA – the first one in the world.



Value creation

Hydrogen

Hamburg is to become a leading hydrogen location in Europe. The Hanseatic city has excellent conditions for the import, distribution and use of green hydrogen.



New investments

Transformation of Steinwerder Süd Area

- The final use of the new port area is not yet decided, it could be a terminal handling general cargo, a place of industrial production or refinement with seaborne handling, or a recycling hub (circular economy) or an innovation center. It is also to be examined whether the area can also be used as an import terminal for sustainable energy sources such as hydrogen or hydrogen derivatives.
- The approval process, the implementation of the overall measure and the settlement are to take place by 2030.



 Thank you! See you in Hamburg in 2024..?



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