

**Hamburg is fit
for the future**

PORT 4.0

smart

smartPORT – intelligent port

- Philosophy for innovative projects
- Smart solutions enhance efficiency of port traffic and cargo flows
- Development of new control systems

5G

Hamburg Port Authority tests 5G in the port

- 5G sets the communication standard for the future
- Rapid, reliable and secure
- Two years' testing in industrial environment

HVCC

Hamburg Vessel Coordination Center (HVCC)

- Central, supra-corporate coordination centre for large vessels, feeders and inland vessels in the Port of Hamburg
- Accessible 24/7
- Data networking of shipping companies, terminals, Nautical Center and pilots = efficient and more environment-friendly use of the port and the River Elbe

SBV

Container terminals introduce slot-booking procedure (SBV) for truckers

- Digital process controls and optimizes truck handling in the Port of Hamburg
- More mega-ships = more truck calls at terminal per ship's call = stowage and truck parking problems
- Introduction of SBV = fewer bottlenecks during peak periods in port, relieving traffic congestion

PORT MARKETING

Contact

Hafen Hamburg Marketing e.V.

- Marketing and positioning of the Port of Hamburg in the international context
- Boosting the universal port's competitiveness
- Information for German and international port customers on its performance
- Worldwide network and marketing activities
- 12 representative offices in eight countries on two continents



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www.portofhamburg.com/linerservices
- Current block train services via Hamburg**
www.portofhamburg.com/intermodal
- The facts on over 50 years of container handling in Hamburg**
www.hamburg-container.com

PORT MANAGEMENT

Contact

Hamburg Port Authority AöR

- Hamburg Port Authority AöR (HPA) with its 1,800 staff has been notable for forward-looking port management from one source since 2005
- The HPA is omnipresent wherever the Port of Hamburg's efficiency, safety and viability are at stake
- The HPA counters growing demands on the port with intelligent and innovative solutions



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www.youtube.com/HamburgPortAuthority

Cover: Achim Mülhaupt

2018

The Port of Hamburg FACTS AND FIGURES

50

50 YEARS
CONTAINER
IN HAMBURG



**Universal Port
of Hamburg**

KEY FIGURES

Calls at the Port of Hamburg on average per year

18,000

seagoing and inland waterway vessels

Megaship-ready for

20,000 TEU

containerships

The port safeguards

156,000

jobs in the Hamburg Metropolitan Region

Weekly from/to Hamburg

> 2,000

container services

Efficient flow of supplies for European hinterland with

500 Mio.

consumers

Northern Europe's top cargo hub with

150

regular ocean-going liner services

OVERSEAS SERVICES

- Germany's largest universal port
- Important port for China
- Europe's third largest container port

Global liner network

- About 150 liner services link Hamburg directly with ports in more than 100 countries on six continents



Seaborne cargo handling 2017

Total throughput (in million tons)		136.5	
Of which Bulk cargoes	44.7	Of which General cargoes	91.8
Grab cargoes	23.5	Conventional general cargoes	1.4
Liquid cargoes	13.7	Containerized general cargoes	90.3
Suction cargoes	7.4	Containers (in million TEU)*	8.8

*TEU = Twenty-foot Equivalent Unit

Ocean-going ship traffic 2017

Arrivals	8,088
Containerships	3,625
Tankers/Bulk carriers	2,747
Cruise ships	197
Other types of ships	1,519
Ships with a length of over 330 metres and/or a breadth of over 45 metres	1,036

Top 10 trading partners 2017

Seaborne cargo throughput (M tons)		Container handling (M TEU)	
1. China incl. Hong Kong	24.01	1. China incl. Hong Kong	2.619
2. Russia	12.19	2. Russia	0.405
3. Brazil	7.05	3. Singapore	0.389
4. USA	5.49	4. Finland	0.312
5. Norway	5.48	5. Sweden	0.298
6. Singapore	4.91	6. United Kingdom	0.237
7. Canada	4.66	7. South Korea	0.228
8. Sweden	4.52	8. Malaysia	0.221
9. United Kingdom	4.25	9. Poland	0.219
10. Finland	4.06	10. United Arab Emirates	0.215

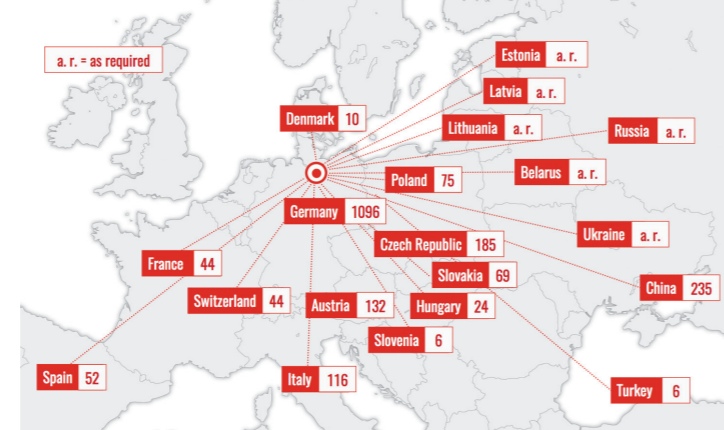
HINTERLAND SERVICES

- Europe's largest rail port
- One of the largest inland waterway ports in Germany
- Important hub for Baltic trade services

Rail freight transport 2017

Total throughput (million tons)	45.5
Container throughput (million TEU)	2.3
No. of freight trains	58,500

Weekly Intermodal Railway Services via Hamburg



Inland navigation 2017

Total throughput (million tons)	10.7
Container throughput (TEU)	121,000
In-port tours (TEU)	97,000
No. of movements by inland waterway vessel	19,315

Modal split

Transport to/from hinterland (978 million tons)*	In hinterland container transport (5,5 billion TEU)*		
Rail	46.6 %	Rail	42.8 %
Inland waterway vessel	11.0 %	Inland waterway vessel	2.2 %
Trucking	42.5 %	Trucking	55.0 %

*Disparity in total caused by rounding

Cargoes for feeder transport into the Baltic and North Sea

Total throughput (million tons)	38.7
Container handling (million TEU)	3.4

INFRASTRUCTURE

- 280 berths for seagoing vessels
- 44 terminals in Hamburg
- Modern and efficient infrastructure

Port areas 2017

The port	7,083 hectares
Land area	4,243 hectares
Water surface	2,839 hectares
Port extension zone	795 hectares

Terminals 2017

Container terminals	4
General cargo terminals	6
Bulk cargo terminals	31
Grab cargoes (coal, ore, etc.)	9
Suction cargoes (grain, fertilizers, etc.)	10
Liquid cargoes (oil, liquefied gas, etc)	12
Cruise terminals	3

Port infrastructure 2017

Quay walls for seagoing vessels	43 km
Berths for seagoing vessels	280
Of which mega-ship berths	40
Berths at dolphins (seagoing ships only)	17
Landing facilities (pontoons)	56
Public roads	142 km
Rail tracks (total)	288 km
Bridges: road bridges	62
railway bridges	51
movable bridges	6

PORT IS WHAT WE DO

Die Hamburg Port Authority AöR

- Hamburg Port Authority AöR (HPA) is the point of contact for all questions relating to waterside and land infrastructure, the safety and smooth running of ship traffic, Port Railway installations, real property management and observation of statutory requirements in the Port of Hamburg.
- The HPA accordingly holds the necessary sites in readiness and is responsible for discharging sovereign functions and running various port services.

JOBS

- Biggest employer and important in powering employment in the region of Hamburg, Schleswig-Holstein and Lower Saxony
- Generating 21.8 billion euros of nationwide added value

Port-dependent jobs (As at 2014)

Total number of jobs directly and indirectly dependent on port functions:

In Germany as a whole	268,689
Hamburg	129,761
Schleswig-Holstein	13,884
Lower Saxony	11,917
Hamburg Metropolitan Region as a whole	155,562

GREEN PORT

Environmental management and climate protection

Shore-power terminal at Cruise Center Altona

- Cruise Center Altona's shore-power terminal entered regular service in 2017.
- The terminal is unique of its kind in the world.
- Full shore-power supply for 22 vessels is planned for 2018.

Hamburg's fleet sets a good example

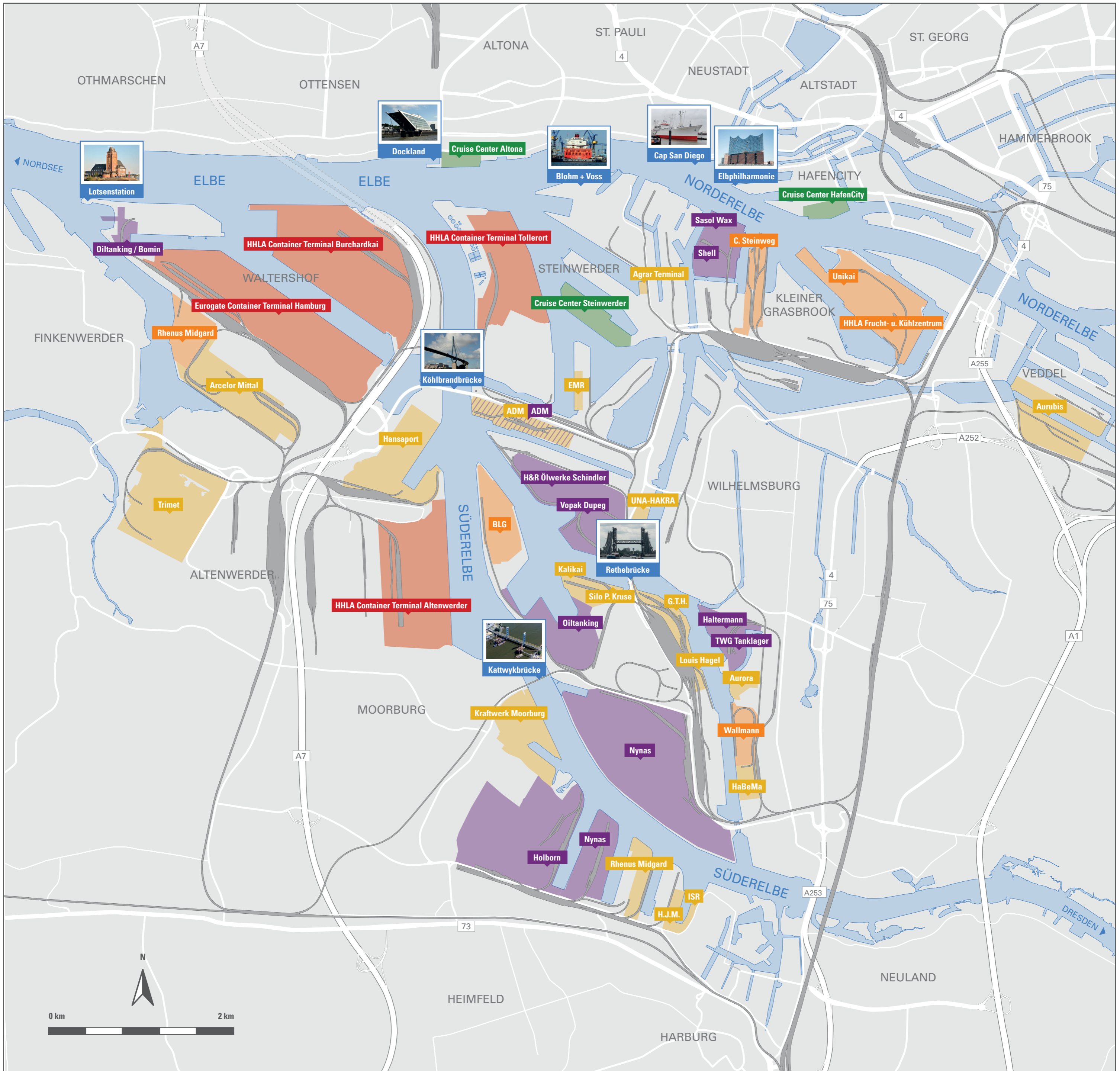
- The Hamburg Port Authority fleet of 50 vessels benefits from sustainable management.
- This includes modern exhaust-gas technology, innovative propulsion concepts and energy-saving ship propulsion.
- One special feature is conversion to lower-emission GTL (Gas to Liquid) fuel.

Hamburg is ready for LNG

- The Port of Hamburg provides LNG supply at its Steinwerder Cruise Center.
- Every Saturday during the 2018 cruise season, the 'AIDAprila' will be supplied with LNG at her berth.
- With the 'AIDAnova', the first LNG-fuelled cruise ship is expected in Hamburg in 2018.

Port dues incorporate environmental elements and port-sourced electricity discount

- From 2018, new environmental elements in port dues provide an additional incentive to move further towards alternative supplies in future and to promote clean ships.
- In addition, a more extensive port electricity supply discount encourages environment-friendly in-berth operation.



Terminals	
	CONTAINER
	MULTI PURPOSE & RORO
	BULK CARGO
	LIQUID BULK
	CRUISE

Water levels, ship drafts	
Permissible ship drafts (fresh water)	
Inbound, depending on utilization of the tidal bore	15.10 m
Outbound, depending on the tidal bore	13.80 m
Irrespective of tide (inbound and outbound)	12.80 m
Tide at Hamburg St. Pauli	
Mean high tide	Mean sea level + 2.13 m
Mean low tide	Mean sea level - 1.62 m
Mean tidal range	3.75 m

- | Ships on the move | |
|---|--|
| <ul style="list-style-type: none"> Live tracking of vessels in the interactive 3D port map
www.portofhamburg.com/portmap Ships expected during the next 2-3 days
www.portofhamburg.com/vessels/eta Cruise ships that will call in the Port of Hamburg
www.portofhamburg.com/vessels/cruise-sailinglist Ships that have just passed the Hamburg port limits
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