

SEANERGY

# Regional Workshop Ennshafen Port

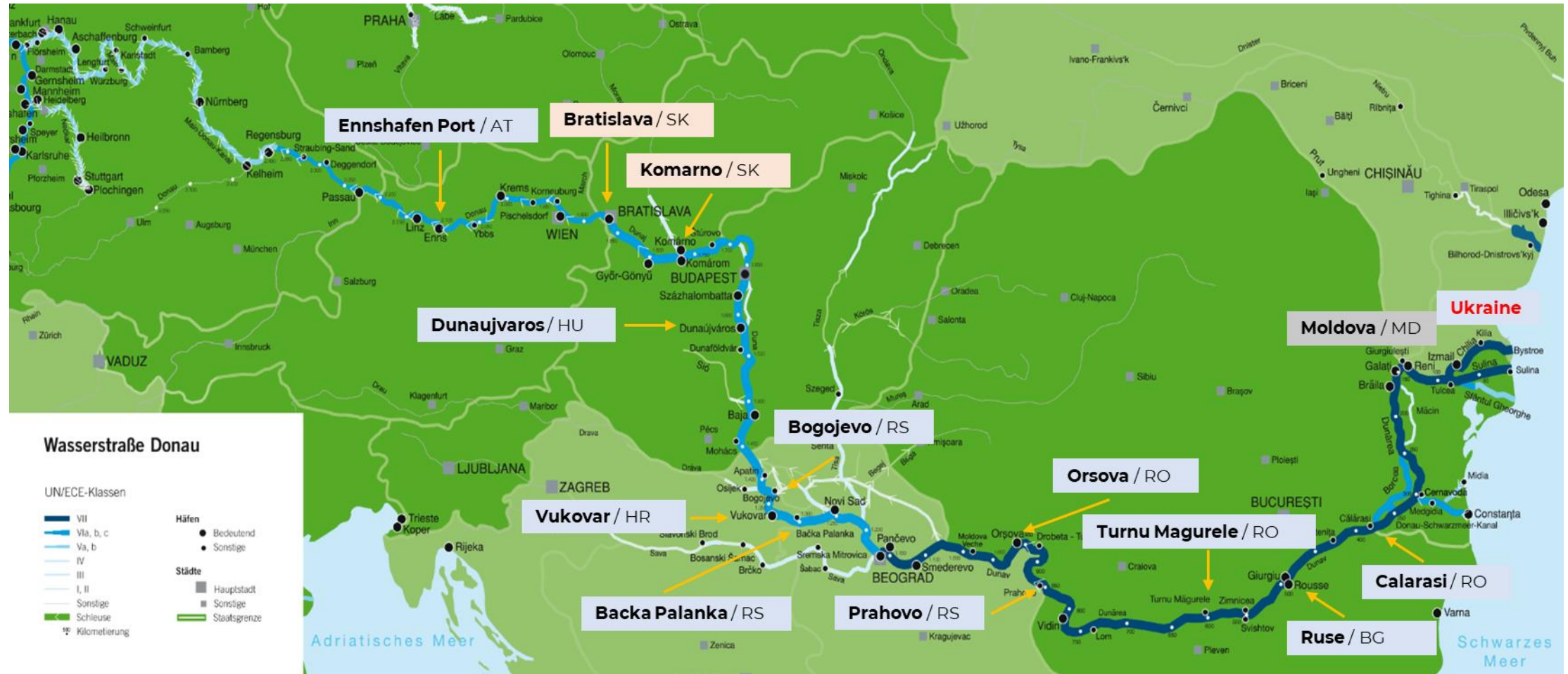
Werner Auer, Managing Director, online on 21th September 2023



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# Port Development Plans in the Danube Region

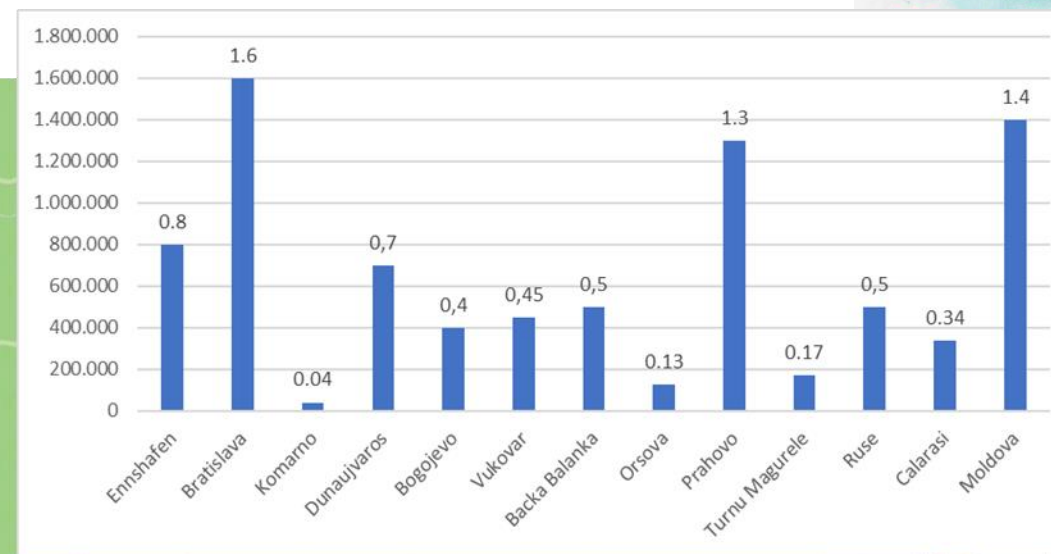
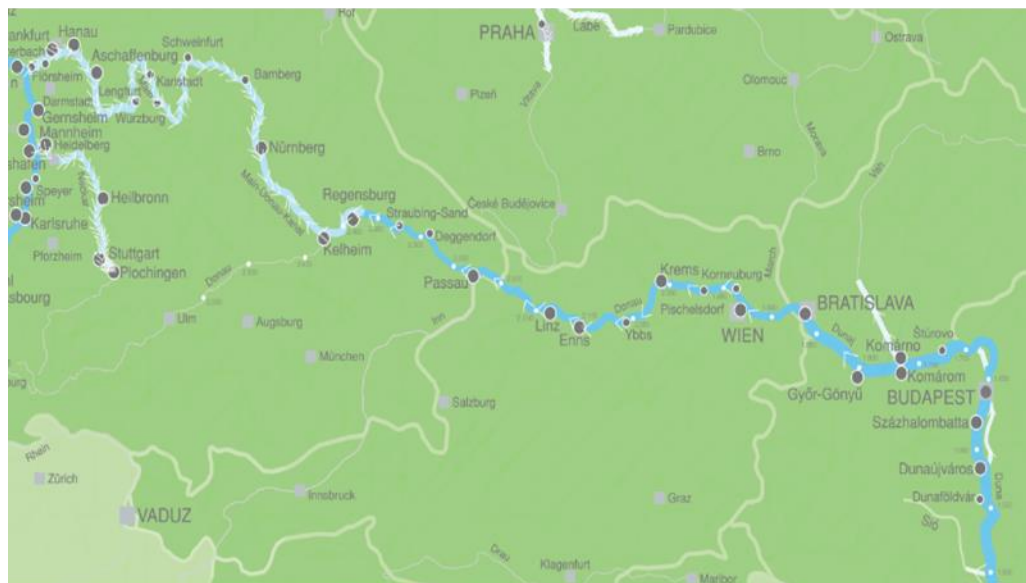
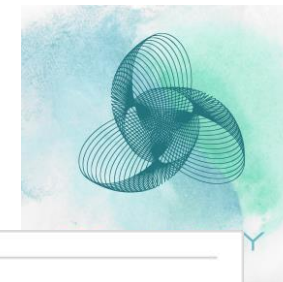


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# Waterside Transshipment in mio t/a

(average of last years)



## Wasserstraße Donau

### UN/ECE-Klassen



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# Executive Summary - Overview



***far away from „one fits all“, each port has his own story and no standard-manual can be applied !***

- port area from 5 ha – 352 ha
- public / mixed / private
- cargo - passenger transport – integrated business parks
- from trimodal to single-modal

green port

cargo

infra & digital

structure

in & out

***Clustering of elaborated results into 5 categories:***

- great diversity
- very different starting status
- big differences in regional economy
- future developments with broad variability
- .....

*>>> measures & projects are very different and tailor-made for each country / each port*





# ENNSHAFEN PORT / AT



- Appr 3,5 Mio m<sup>2</sup> (port & business park)
- TEN-T Core Node with highly developed infrastructure and modern investments
- Big container terminal – appr. 400 TTEU/a
- **Public-Private-Partnership (landlord)**
- State-of-the-art hinterland connections road/rail
- Huge ongoing investments

green port

cargo

infra & digital

in & out

- Low carbon port (OPS, alternative fuels, energy systems)
- Cargo & core infrastructure (increasing of transshipment, new cargo, truck-train-ship-shifting, containerisation of goods)
- Digitalisation (of core port processes)
- Basic infrastructure of the whole site and cross-sectional items



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# BRATISLAVA PORT / SK



- Total port area 158,13 ha with 4 basins
- Most important port in Slovakia, part of TEN-T
- Cargo and passenger transport
- Trimodal connection with Ro-Ro, container terminal (appr. 1400 t/a) and landing cranes for heavy and oversized goods
- **Port authority & owner of the land is VPas**
- **Main port operator & owner of infrastructure is SPAP** (Slovak shipping and ports)

green port

- Build a terminal for production and transport of alternative fuels

cargo

- Expand transshipment locations and storage areas of break-bulk cargo

infra & digital

- Build a new passenger terminal & the city marina with water sports facilities in the Zimný Prístav

structure

- Solve the current ownership at the port

in & out

- Move the bulk cargo from the Zimný Prístav to the Pálenisko



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# KOMARNO PORT / SK



- Installation of green energy (PV)
- Renewal of old buildings and port equipment
- New loading station and warehouse

- Total port area 64,3 ha with 2 basins
- Second most important port in Slovakia, part of TEN-T
- Cargo and passenger port
- Connection to railway and road
- **Port authority & owner of the land is VPas, main port operator and owner of infrastructure is SPAP**



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# PORT OF DUNAUJVAROS / HU



green port

infra & digital

in & out

- Appr 44 ha site (land area 5,2 ha and the water surface used by the port is 38,1 ha)
- Located at the right riverside of the Danube and is suitable for managing large ships
- Extended road, rail and water connections, but small storage capacity (1200 m<sup>2</sup>)
- Private orientation – **2 private operators** cooperatin based on a **contract**

- Low carbon port (installation of PV)
- Service improvement (improvement of cargo handling equipment, establishment of an inner traffic engineering network, roofed loading stations)
- Efficient transportation (port basin deepening, shore wall extension, expansion of truck waiting areas)
- Safety and security (renovation of the existing shore wall, fire safety)



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# PORT OF VUKOVAR / HR



green port

cargo

infra & digital

- Appr 26 ha of port area (state owned)
- **E-port under the European Agreement** on Main international Importance (AGN; OG 16/98)
- **Status of an international port**, which is of economic importance for the Republic of Croatia

- Construction of communal connections for the supply of alternative fuels
- Construction of new terminals for hazardous substances and specialized terminals and waste management capacities
- Maintenance of existing infrastructure, renovation of port structures and facilities
- Increasing intermodality by construction of intermodal infrastructure in cargo transport



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# PORT OF BOGOJEVO / RS



- Appr 9 ha port area
- Open shore port with no railway connection currently
- Favorable position in the developed agricultural and industrial area
- **Landlord port model – one port operator**

infra & digital

structure

in & out

- Multipurpose port – extension of port capacity will enable handling of different kind of cargo (general cargo, oil and oil products, dry bulk)
- Additional port operators through concession model
- Connection to the national railway network and enabling port to be a regional trimodal hub



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# PORT OF BACKA PALANKA / RS



- Appr 74 ha port area, only small part developed with 3 berth
- Basin type port with no railway connection currently
- Favorable position in the developed agricultural and industrial area
- **Landlord port model – one port operator**

infra & digital

structure

in & out

- Multipurpose port – extension of port capacity will enable handling of different kind of cargo (general cargo, oil and oil products, dry bulk)
- Additional port operators through concession model
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# PORT OF PRAHOVO / RS



green port

infra & digital

structure

- Appr 5,5 ha of port area
- Open shore trimodal port
- Favorable position – chemical industry in the immediate vicinity, copper production and mining industry in the hinterland area
- Large chemical park planned in the area next to the port
- **Landlord port model – two port operators**

- Construction of the green terminal for collection of ship waste materials
- Reconstruction of the port infrastructure (quai wall, internal rail and roads), construction of additional warehouse space
- Additional port operators through concession model



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# PORT OF ORSOVA / RO



- Appr 50.400 m<sup>2</sup> port area
- The length of the walled quays / vertical / natural embankment is 1060 m
- Road and rail connections do exist
- **Port infrastructure owned by the Ministry of Transport & Infrastructure (public property – administrated by the Inland Danube Ports Administration APDF Giurgiu under the coordination of the Ministry – administration is granted through a concession contract)**

- Modernisation hydrotechnical constructions and the port platform
- Modernisation of water and electricity networks, including vessel supply systems
- Modernisation of the handling facilities



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# PORT OF TURNU MAGURELE / RO



- Appr 82.000 m<sup>2</sup> port area
- The length of the walled quays / vertical / natural embankment is appr. 920 m
- The port is connected to national road networks
- Main type of cargo: agricultural products, raw material, chemicals, steel products
- **Port infrastructure is owned by the Ministry of Transport & Infrastructure is administrated by the City Hall of Turnu Magurele**

green port

infra & digital

in & out

- Installation of a photovoltaic system (5 kWp)
- Modernisation of hydrotechnical constructions (walled wharves), installation of new systems for tying vessels to the wharf
- Rehabilitation of the port platform and modernisation of the electricity supply system
- Introduction of the water and sewage system
- Modernisation of the rail connection



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# PORT OF RUSE / BG



- Appr 37,645 ha (port and business park)
- 16 km railway infrastructure
- Big terminal for dangerous goods (Propane, Butane, crude oil, petroleum products – diesel, gas oil, oils)
- **Long-term cooperation of public and private sector with firm commitments**

green port

cargo

infra & digital

- Transition to low carbon (maritime) transport & port operation and reduction of air pollution
- Increasing of transhipments & cargo
- Digital transformation approach applicable to the core port activities
- investments in new infrastructure



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# PORT OF CALARASI / RO



infra & digital

in & out

- Appr 81.500 m<sup>2</sup> site for port area
- The length of the walled quays / vertical / natural embankment is appr. 830 m
- Main type of cargo: agricultural products, raw materials, steel products
- **Port infrastructure is owned by the Ministry of Transport & Infrastructure (public property)**
- Port infrastructure is **administrated by the Inland Ports Administration (APDF Giurgiu)** under the coordination of the Ministry – administration is **granted through a concession contract**

- Dredging of the Borcea canal entrance (100.000 m<sup>3</sup>)
- Consolidation and modernisation of the hydrotechnical constructions (quais)
- Implementation of water and electricity networks, incl. vessel supply systems
- Repair of the port platform, restore the rail connection and modernise the road connection



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# MOLDOVA



- Appr 1,2 Mio m<sup>2</sup> (port and business park)
- The main and only international multimodal hub with a direct connection to the European transport network
- Strategically important terminals for the national economy (oil, grain, container), with stable road and rail links with the main logistic centers of the country
- **Main investments made by the European Bank for Reconstruction and Development**
- **Development of business park by private investments of residents**

green port

infra & digital

in & out

- Implementation of the low-carbon port program
- Construction of a universal berth along the bank of the Danube river in order to expand and modernise the port infrastructure
- Business park development and attraction of residents
- Attracting investments from the Republic of Moldova and the European Union for the reconstruction of railways



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# Summary of categories in 13 DR ports



## **9 ports / AT, SK, HU, HR, RS, BG, RO, MD**

Ennshafen / Bratislava / Komarno Port / Port of Dunaujvaros / Port of Vukovar / Port of Prahovo / Port of Turnu Magurele / Port of Ruse / Moldova



## **4 ports / AT, SK, HR, BG**

Ennshafen / Bratislava / Port of Vukovar / Port of Ruse



## **13 ports / AT, SK, HU, HR, RS, BG, RO, MD**

Ennshafen / Bratislava / Komarno Port / Port of Dunaujvaros / Port of Vukovar / Port of Bogojewo / Port of Backa Palanca / Port of Prahovo / Port of Orsova / Port of Turnu Magurele / Port of Ruse / Port of Calarasi / Moldova



## **4 ports / SK, RS,**

Bratislava / Port of Bogojewo / Port of Backa Palanca / Port of Prahovo



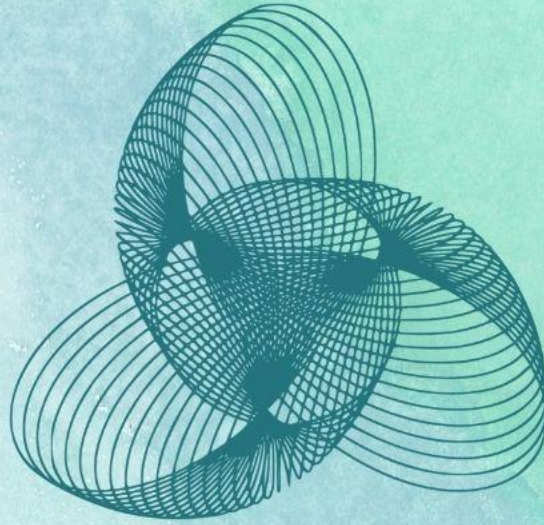
## **8 ports / AT, SK, HU, RS, RO, MD**

Ennshafen / Bratislava / Port of Dunaujvaros / Port of Bogojewo / Port of Backa Palanca / Port of Turnu Magurele / Port of Calarasi / Moldova



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