

IW-NET

Innovation driven Collaborative European Inland Waterways Transport Network

Final Event, Ghent, 12. October 2023

Solutions developed by IW-NET

Facilitate multimodal transport

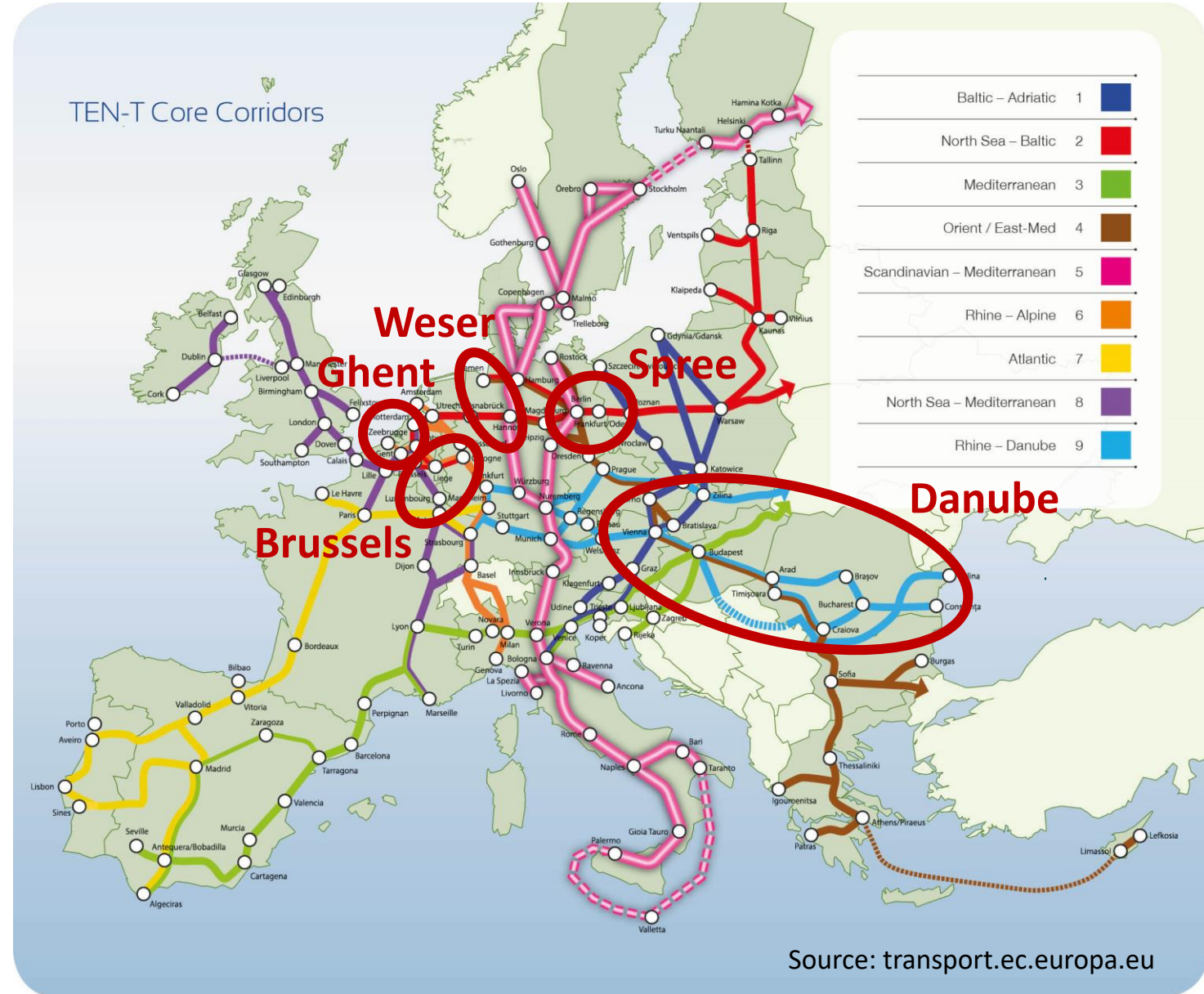
- Explore containerized transport with **new vessel design** and **data driven navigability** (case of the Danube)
- Improve **connectivity and visibility** (port call procedures, synchromodal booking platforms, realtime tracking (case in Ghent and Brussels)
- Increase reliability through **improved traffic, lock and berth planning** (case of Bremen Port)

Improve urban and last mile delivery

- **Autonomous barges** and pallets transported (case of Ghent)
- **Connectivity** to city bikes and urban city distribution centres (case of Brussels and Lille)

IW-NET Corridors

- Brussels-Antwerp-Courtrai-Lille-Valenciennes
- Danube
- East Flanders-Ghent
- Spree-Oder waterway
- Weser/Mittelland Canal



Application Scenarios

AS1A Transportation of goods into dense urban areas

Predictive demand routing, integration of different categories of customers

AS1B Data-driven navigability in uncertain waters

Navigability in uncertain water conditions, new barge types optimised for Danube navigability conditions

AS2A Intelligent IW traffic flow optimisation

Lock forecasting and planning, traffic forecasts, strategies to cope with infrastructure bottlenecks

AS2B Digitalization of port call procedures

Berth planning, development of port call app, shore power supply

AS3A Autonomous vessels for urban distribution

Innovative IW vessels with a high degree of automation for urban distribution

AS3B Advanced use of GALILEO services for navigation

Driver assistant functionalities such as guidance assistant, bridge height warning etc.

Agenda 1/2

- 9:00 Welcome
- 9:10 Introduction by Nils Meyer-Larsen, IW-NET Project Coordinator
- 9:30 IW-NET decision support analytics, Zisis Palaskas
- 9:50 Simulation-based optimisation of IWT flows on river Weser, Patrick Specht
- 10:20 Intermodal urban last-mile transport with track & trace, Yves de Blic

Expo area in the tent:

10:50 Coffee break and permanently running demonstrations in the exhibition area

Organised presentations by AS1A "Intermodal urban last-mile transport with track & trace":

11:05 - 11:20

11:30 - 11:45

Meeting room:

- 11:50 Innovative vessel design and IWT optimisation on the river Danube, Matthias Prandtstetter, Bianca Duldner-Borca, and Bernhard Bieringer
- 12:20 Port call digitalisation and shore power solution, Arne Gehlhaar

Expo area in the tent:

12:50 Lunch and permanently running demonstrations in the exhibition area

Organised presentations by AS1A "Intermodal urban last-mile transport with track & trace":

13:20 - 13:35

13:50 - 14:05

Agenda 2/2

Meeting room:

- 14:30 Autonomous shipping and platooning, GALILEO positioning, Peter Slaets and Ralf Ziebold
- 15:10 Explanations of the upcoming demonstrations on the water, Senne Van Baelen and Ralf Ziebold

Live demonstrations to be seen from the windows of the meeting room and expo area or from the quay

Meeting room:

- 16:25 Closing of the event, by Nils Meyer-Larsen, IW-NET Project Coordinator

Expo area in the tent:

- 16:30 *Networking cocktail and permanently running demonstrations in the exhibition area*
- 17:30 End of the event

Enjoy our presentations!

www.iw-net.eu