



# River Information Services (RIS) Innovation for the 21st Century

Michael Fastenbauer, viadonau & Inland Navigation Europe  
„Inland navigation for the 21st Century“, Praha (CZ)  
April 1st, 2019



Co-financed by the European Union  
Connecting Europe Facility



## **RIS COMEX project** **(RIS Corridor Management Execution)**

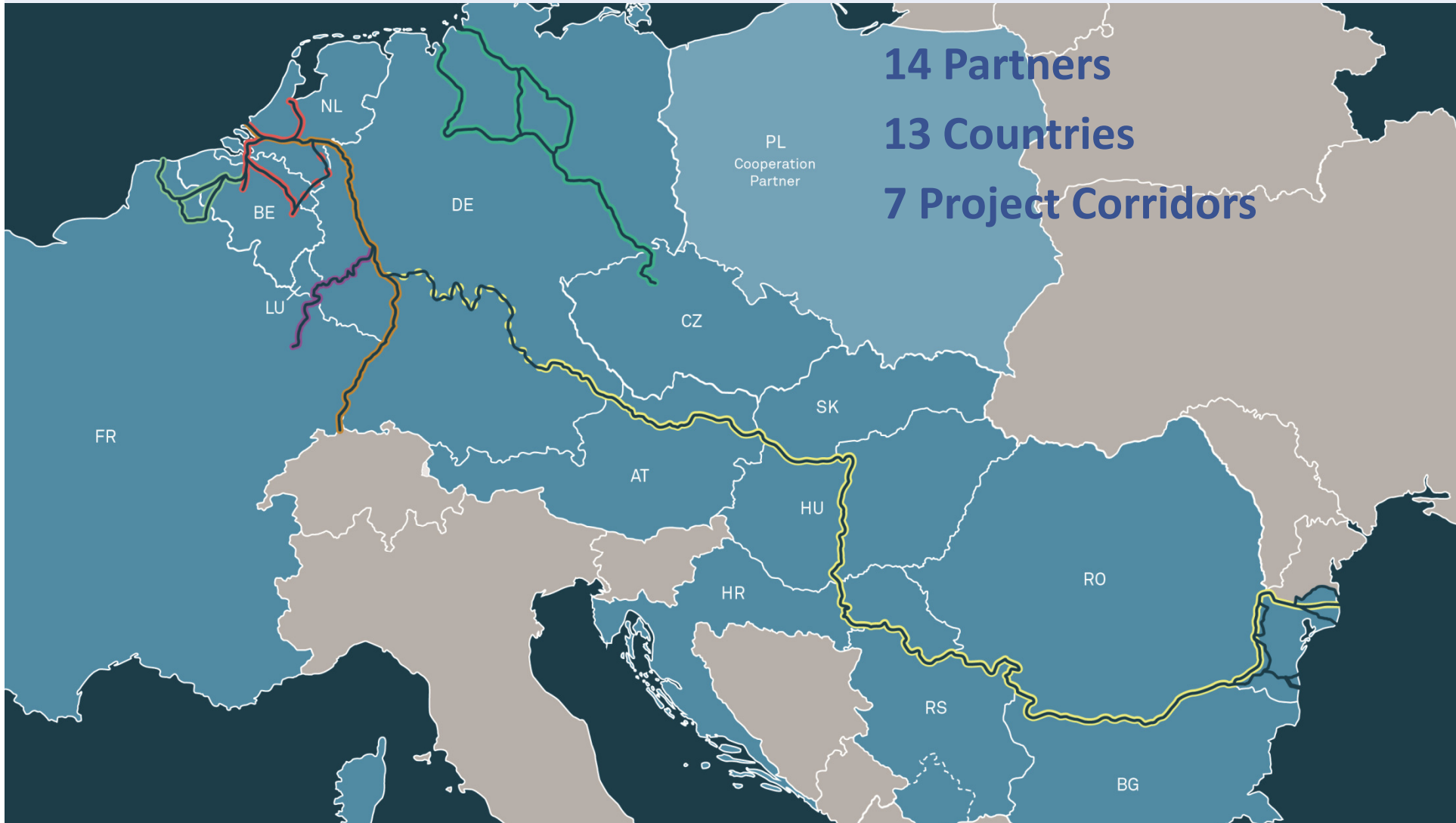
A multi-beneficiary project co-funded by CEF  
aiming at the definition, specification, implementation and  
sustainable operation of Corridor RIS Services

[www.riscomex.eu](http://www.riscomex.eu)



Co-financed by the European Union  
Connecting Europe Facility

# RIS COMEX Corridors

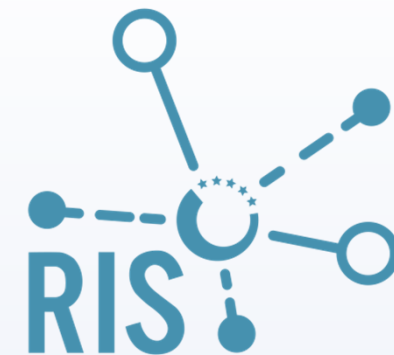


**14 Partners**  
**13 Countries**  
**7 Project Corridors**

- Danube
- Amsterdam-Antwerp-Liège/Brussels
- Elbe-Weser
- Rhine
- Dunkerque-Scheldt
- Mosel

Define and realise RIS Corridor Services  
and transfer them into sustainable operation  
based on the established frameworks!

What is “RIS Corridor Management” actually?



→ ... information services harmonised on Corridor level to ...

... enable reliable  
Route Planning by  
providing fairway  
and infrastructure  
information (level 1)

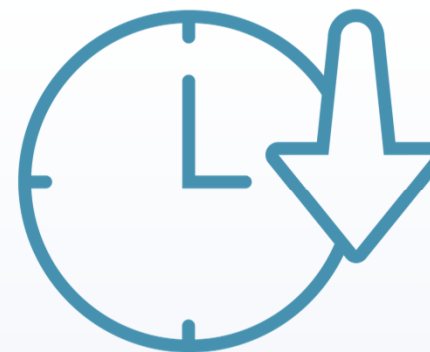
... enable reliable  
Voyage Planning and  
Traffic Management,  
by providing traffic  
information (level 2)

... support  
Transport Manage-  
ment of the logistic  
partners  
(level 3)

# Expected impacts / benefits



Better plannability and reliability of inland waterway transports



Reduction of waiting and travel times

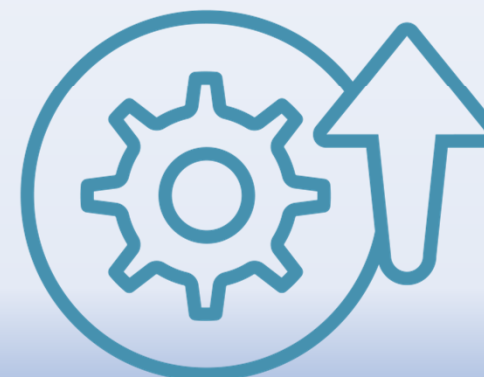
Reduction of administrative barriers and reporting burdens



→ Increased efficiency of inland navigation transports



Increased utilisation of available capacities



# Corridor Services supporting logistics processes in multimodal transportation hubs

- Actual position of specific vessels (if authorised)
- ETAs of specific vessels and deviation notifications (if authorised)
- Electronic voyage- and cargo reporting (reporting only once with single entering of data → reduction of reporting burdens)
- Provision of information to logistics chain

→ Benefits for planning of logistics processes  
→ Benefits for all waterway users

# The framework around RIS COMEX

Strategic Research Agenda

..., DINA, NAIADES, DTLF, ...

..., Horizon 2020, Horizon Europe, CEF, ERDF, ...

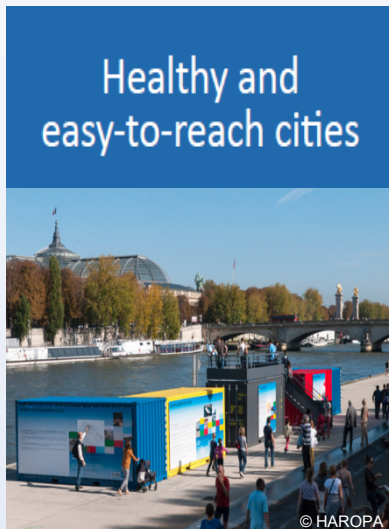
...

International cooperation between the stakeholders

# Innovations in Inland Waterway Transport (IWT)

The long-term view:  
"Strategic Research Agenda -  
Inland waterways transport and ports in Horizon Europe"

## Our contribution to Europe 2050





# Strategic Research Agenda - Inland waterways transport and ports

"Easy to use and reliable mobility & logistics"

- Digitalization and automation
- Easy-to-use and secure **door-to-door trips**, adaptive and **integrated across modes**
- Optimized **safe operation of assets, capacity use of available space and infrastructure**, i.e. the whole life cycle management of assets

- RIS corridor services
- Steering assistance and partial automation
- Partial remote control infrastructure

- Physical internet
- Automation with human fallback performance
- Remote control

- Fully autonomous shipping and infrastructure

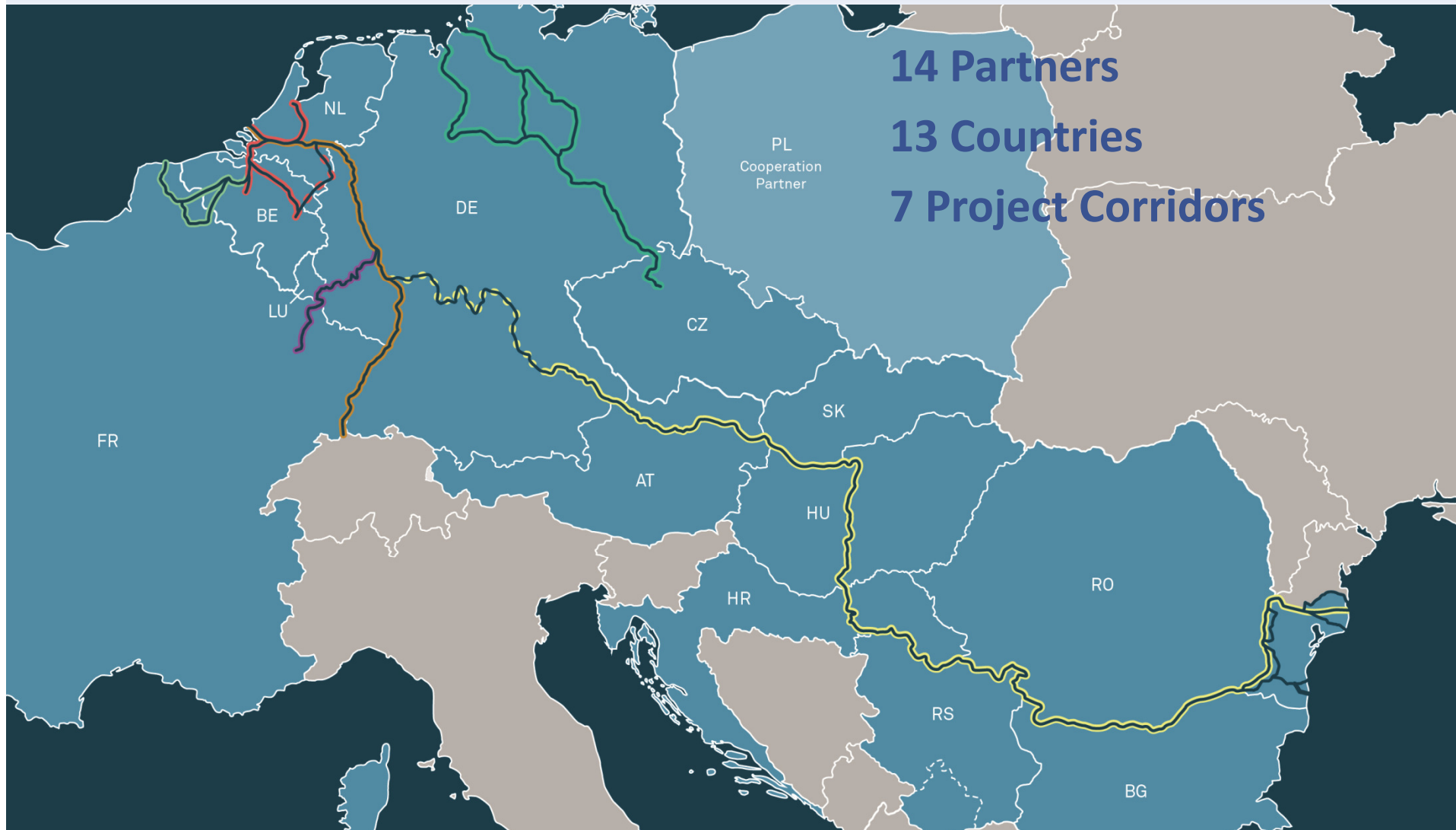


# IWT's future on its way through European cooperation

- ...
- **Strategic Research Agenda** -> Horizon Europe topics for long-term investigations
- **European R&I projects** investigating new concepts
- **Cooperation initiatives of public stakeholders** -> implementing cross-border harmonisation (e.g. RIS COMEX)
- **EC's DINA (Digital Inland Waterways Area) Initiative** -> Policy support for digitalisation (RIS and beyond)
- **EC's DTLF (Digital Transport & Logistics Forum)** -> Policy support and exchange w.r.t. electronic exchange of information in transport and logistics (all modes of transport)
- ...



# RIS COMEX Corridors



- Danube
- Amsterdam-Antwerp-Liège/Brussels
- Elbe-Weser
- Rhine
- Dunkerque-Scheldt
- Mosel



# River Information Services (RIS) Innovation for the 21st Century

*RIS COMEX Project Coordinator:*

***Mario Kaufmann***

***viadonau***

*mario.kaufmann@viadonau.org*

*www.riscomex.eu*

Presented by:

**Michael Fastenbauer**

**viadonau**

*michael.fastenbauer@viadonau.org*

*www.viadonau.org*

**Inland Navigation Europe (INE)**

*info@inlandnavigation.eu*

*www.inlandnavigation.eu*



Co-financed by the European Union

Connecting Europe Facility