



FAIRway Danube II

Joint Workshop on Waterway Management of EUSDR/PA1a and the Danube Commission

Budapest, 4.3.2025, Andreas Bäck

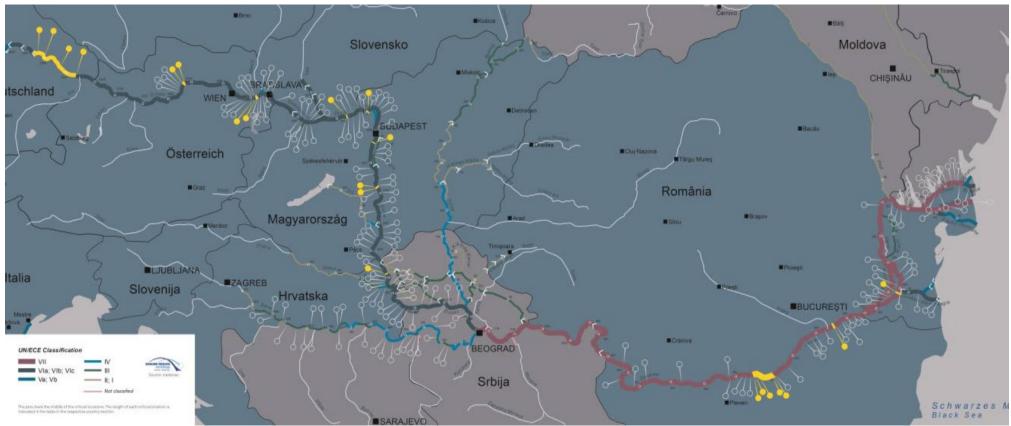
Interreg Programme Danube Region



Co-funded by the European Union



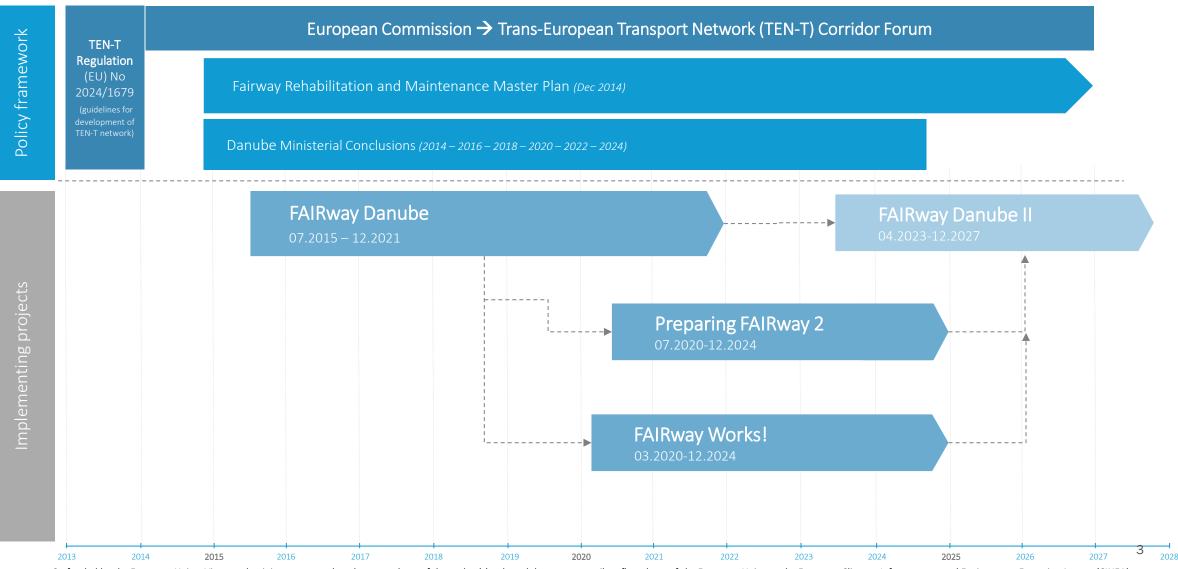
Fairway Rehabilitation and Maintenance Master Plan (11/2014)



Definition of common service levels (2.5m fairway depth at ENR^{*}) Overview of critical bottlenecks and measures *2,0m on

*2,0m on German Danube

Deployment strategy





FAIRway Danube II

Next steps towards Good Navigation Status on the Danube

Budget:

70 Mil.€ (46 Mil.€ CEF co-funding)

Duration:

(04/2023-12/2027)

Participating Countries & Partner Organisations:

- Austria
- Slovakia
- Hungary

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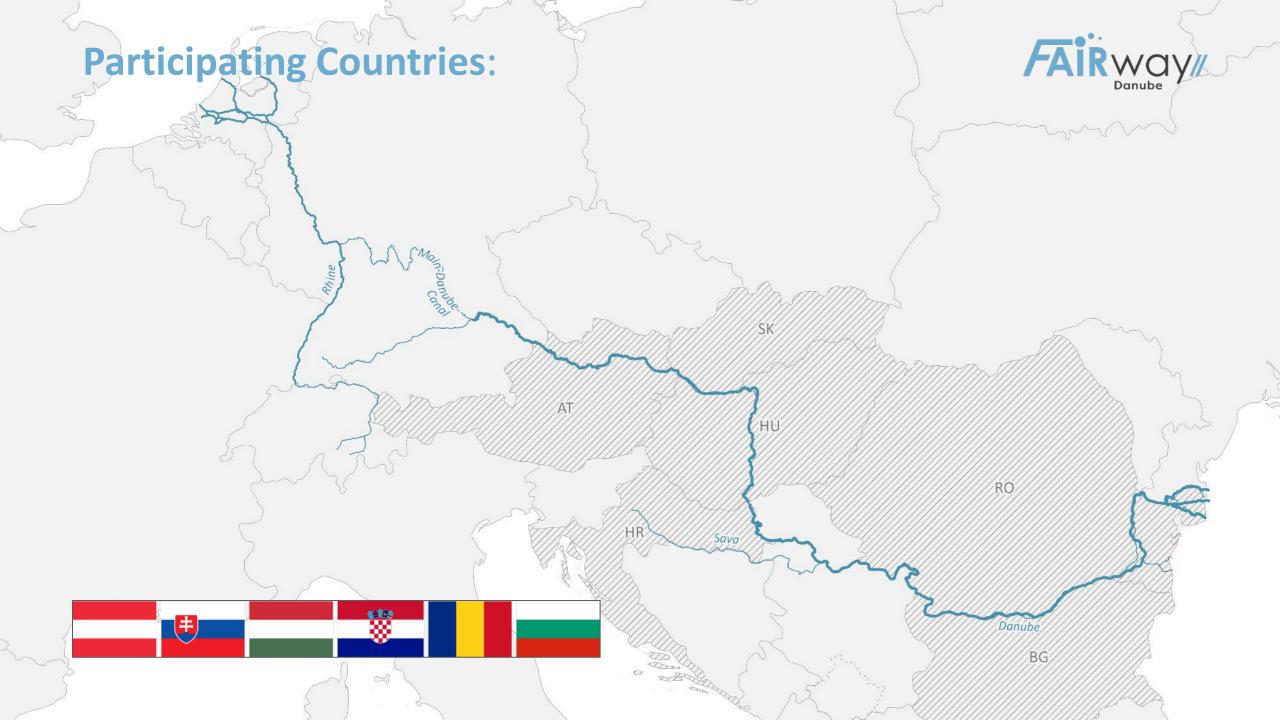
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- via donau
- Slovak Water Management Enterprise
 - Ministry of Construction and Transport

General Directorate of Water Management

- **Croatia** Ministry of the Sea, Transport and Infrastructure
- **Bulgaria** Executive Agency for Exploration and Maintenance of the Danube River
- **Romania** Administration of the Lower Danube

Administration of the Navigable Canals





Main activities:

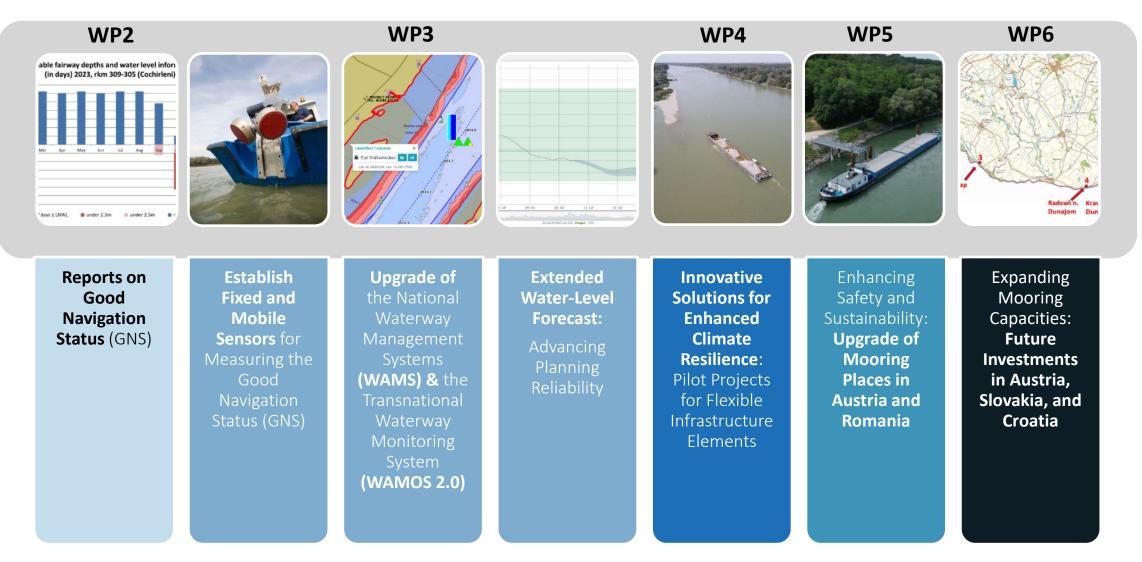
- → Monitoring of fairway parameters: (annual) Reports on Good Navigation Status
- → 183 buoys (HR, RO), upgrade of 19 gauging stations (BG, RO), bridge clearance sensors (HU, RO)

Danube

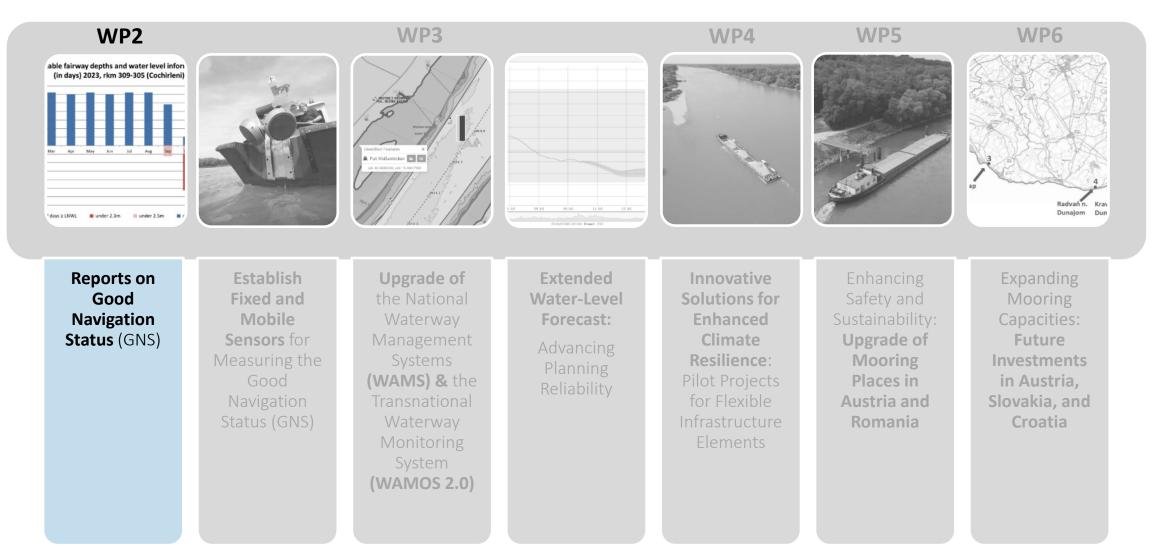
BG

- \rightarrow new surveying vessels (HU, RO, BG), upgrade sensors in SK, HU, HR, RO, BG
- \rightarrow 6 drones (HU, HR, RO, BG)
- ightarrow Upgrade of water-level forecast in AT, HU, RO
- \rightarrow Upgrade trans-national waterway monitoring system (WAMOS)
- \rightarrow Pilot flexible infrastructure (AT, HR, RO, BG)
- ightarrow Upgrade of mooring places in Austria and Romania
- ightarrow Prepare upgrade of mooring places in Austria, Slovakia and Croatia

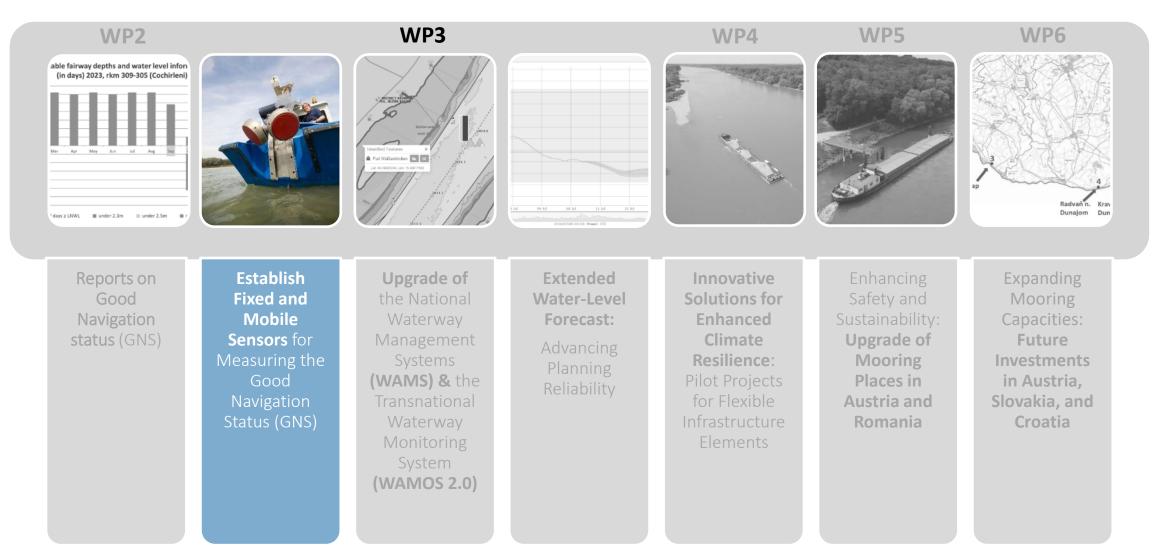




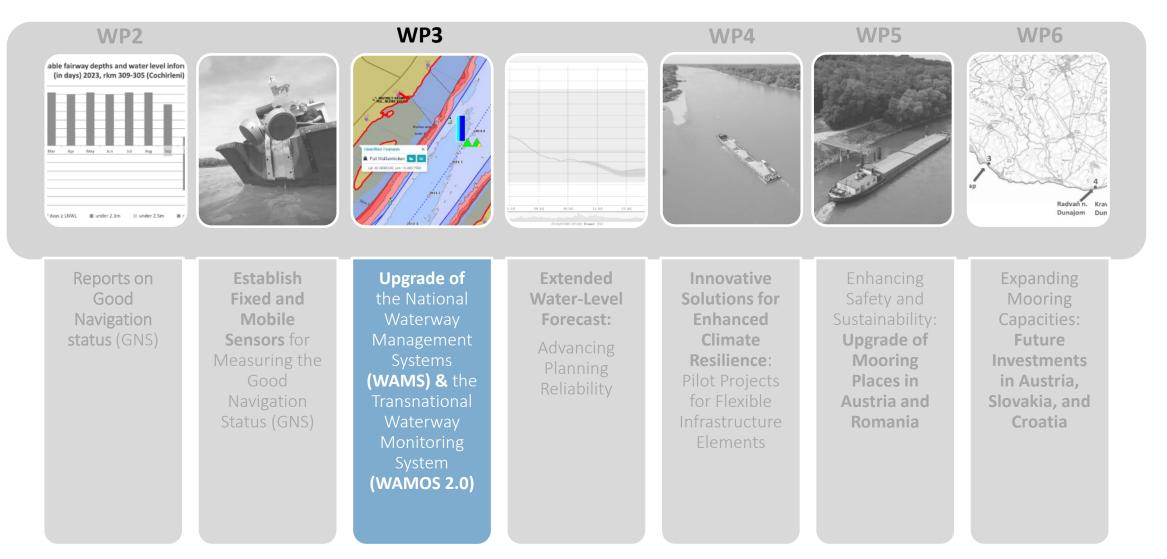




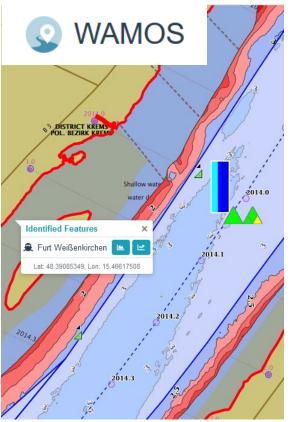








Upgrade of the transnational Waterway Monitoring FAIR WOY// System (WAMOS 2.0)



- Collects hydrological and hydrographical data from the riparian Danube Waterway Administrations into one system
- Offers harmonized display and analysis of the data
- Web application
- Available for registered users only (Waterway Administrations) up until now
- **River Morphology in Bottlenecks:** bathymetric survey data & cross section profiles through the river bed (with compare function)
- Water-Levels & Hydrological Conditions: current and historic water levels, inclusive forecasts and long-term evaluation
- Fairway Availability: for different Levels of Service

WAMOS 2.0 – new functions (example)



Harmonised processing and provision of bottleneck related information & retrieval of surveying results to external systems

General:

- Manages bottleneck related data (create, edit, deactivate)
- Calculates the shallowest spot information with approval process
- Calculates the available fairway depth

Data sources:

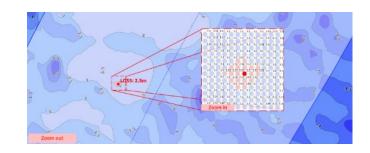
Distance marks virtual, water level, sounding results

Information to fairway users by means of EuRIS:

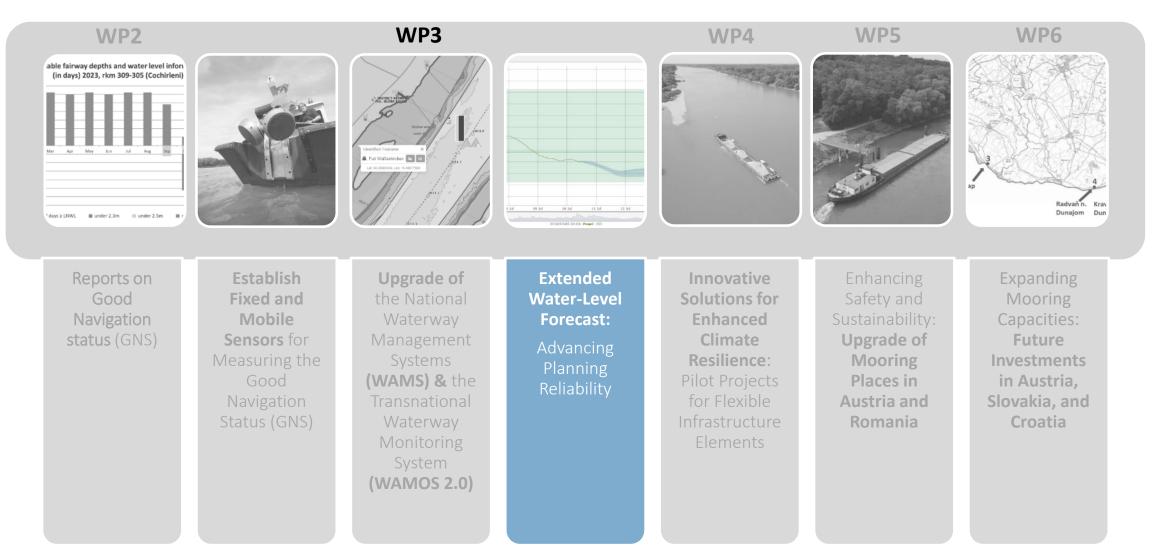
Webservice containing bottleneck information, survey results and shallowest point

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🔓 Мар	A Bottlenecks	A Bottlenecks					
Bottlenecks	© Name	© Country	© Chainage	Latest Measurement			
Import revie	w Albanesti	RO	274 - 277	01/10/2023 ¥	Edit Deactivate		
Imports	Albina Island, km 414.000 - 41	2.000 BG	412 - 414	07/15/2021 -			
-	Apatin	HR	1400 - 1407	05/16/2022 -			
A Define sect	Arankina Ada	RS	1244.8 - 1247	08/21/2020 -			
🖌 Configuration	on Bara Sulina	RO	7.7 - 9	03/23/2023 -	Edit Deactivate		
U Logout	Baracs szűkület	HU	1569 - 1569.8	05/31/2022 ~			
	Baráka szűkület	HU	1520.8 - 1522	09/22/2022 -			
	Batin Island, km 521.000 - 519	9.000 BG	519 - 521	10/14/2022 ~			
	Bedeloiu	RO	42 - 43		Edit Deactivate		

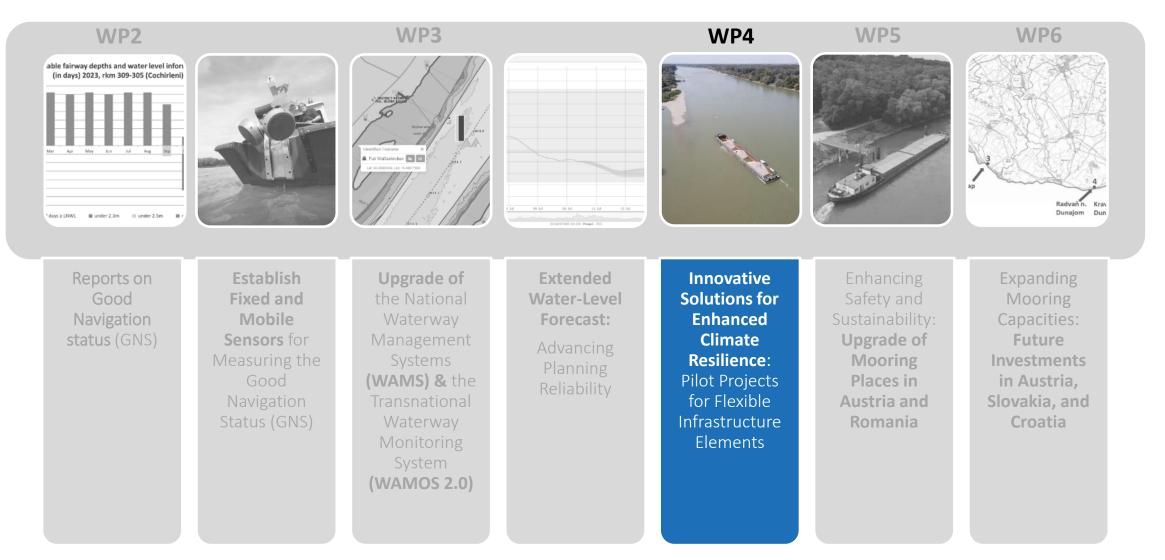
🗮 Map	Bottlenec	k (create	2)					
Bottlenecks	Name		ld		From ISRS		To ISRS	
	Test bottleneck		RO_Bottleneck_99		ROXXX000010000078	30	ROXXX000010000	007850
Import review	Right bank country		Left bank country		Responsible country		Survey type	
Imports	Bulgaria	~	Romania	~	Romania	~	Multibeam	~
Define sections	Gauge		Coverage		Limiting factor		Depth reference	
✗ Configuration	Calafat	~	CrossProfiles	~	depth	~	ZPG	~
C Logout	Date Info		Source					
e cogour	04/01/2023		AFDJ				Cancel	Save





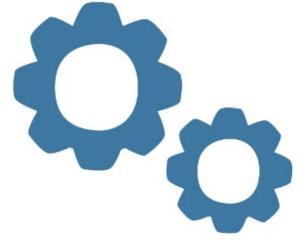






River stretch	Croatia: common Serbian- Croatian Danube	Romanian/Bulgarian: common Romanian-Bulgarian section (river km 845-374)		
1 st period until (12/2024)	Preparatory acti HR	vities RO	BG	
2 nd period (until 12/2025)	1 barge at 1 shallow section	up to 4 barges at 1 shallow section	1 barge at 1 shallow section	
3 rd period (until 12/2026)	2 barges at 1 shallow section	up to 4 barges at 2 shallow section	Up to 2 barges at 1 shallow section	
4 th period (until 12/2027)	2 barges at 1 shallow section	up to 4 barges at least at 2 shallow section	Up to 2 barges at 1 shallow section	
Optional prolongation	2 barges at 1 shallow section	up to 4 barges at least at 2 shallow section	not applicable	





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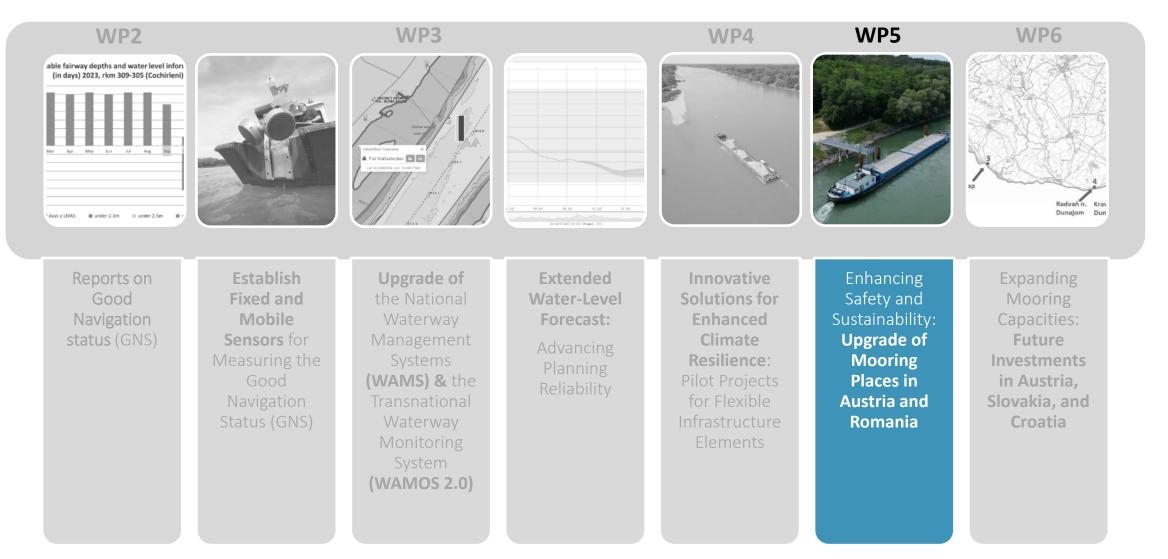
Implementation status

Pilot flexible infrastructure elements

- Market exploration
 - December 2023 until April 2024
 - Engagement of a market expert
 - providing inputs to the market exploration as published by viadonau
 - advertise, extend outreach and increase awareness of the market exploration in order to ensure sufficient competition
- Tender for rental of barges in HR/RO/BG
 - Market observation published in Official Journal in April 2024
 - Tender published in Official Journal in July 2024
 - 1st phase (completed)
 - 2nd phase (ongoing)
 - Contracting expected until end of June 2025







Planned upgrade at 6 locations:

- Shore access facilities
- Mooring facilities
- Shore side electricity
- etc.



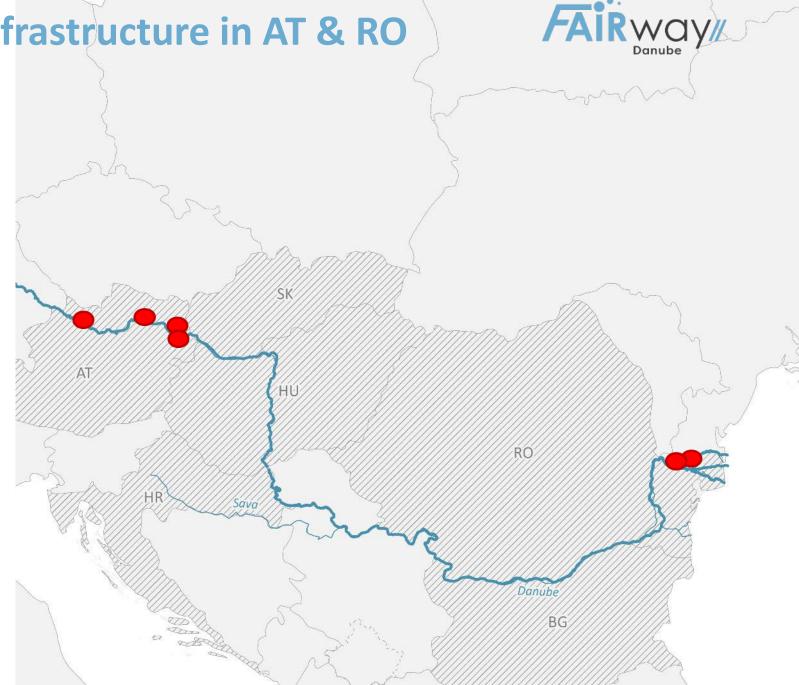


Previous Upgrade in Linz



Planned upgrade at 6 locations:

- two locations in Aschach Austria
- Harbour Krems Austria
- two locations in Vienna Austria
- Port Basarabi Romania
- two locations at Port Medgidia -Romania



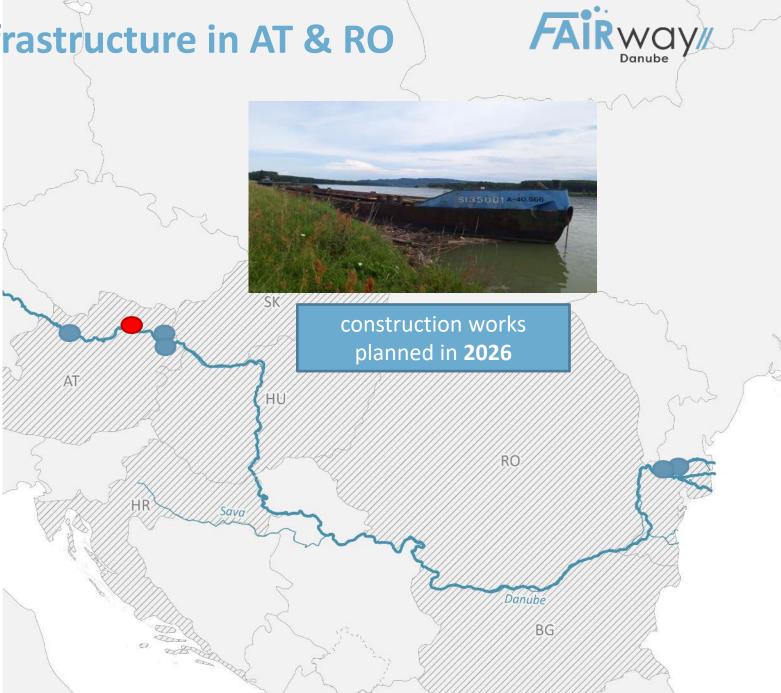
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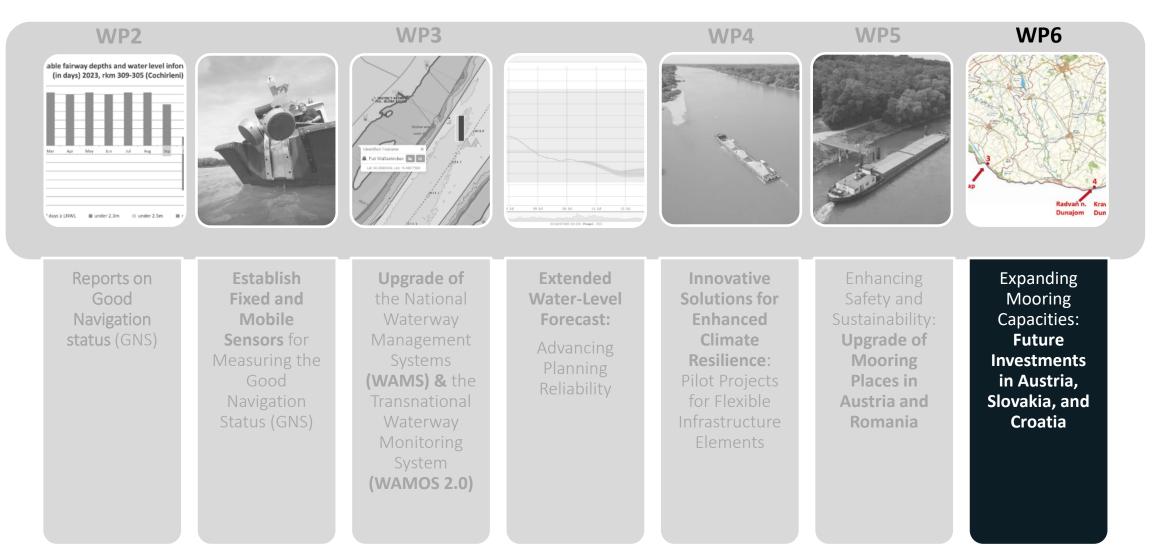


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www.fairwaydanube2.eu

Thank you for your attention!



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