

Background

Danube River basin lighthouse











iNNOvative **SED**iment management in the Danube River Basin













Overview

Lead: BOKU University

• 24 Partners (+ 17 Associated Partners)

• **Start date**: 01 May 2025

• End date: 30 April 2029

• **Volume**: €7,796,074.00

EU TE MA









Swansea

University

Prifysgol **Abertawe**



and Inland Fisheries







































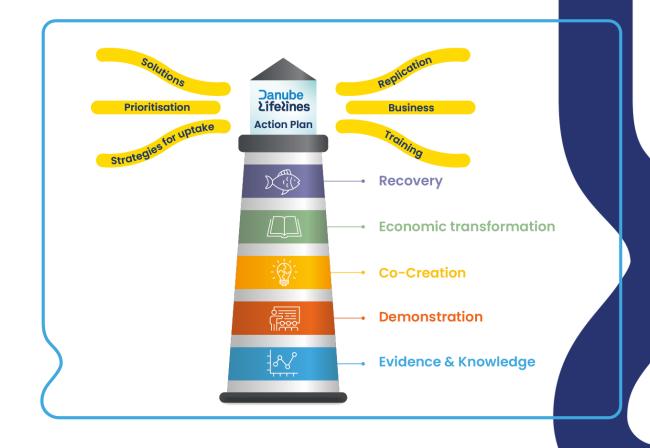
DANUBElifelines Vision

PART OF THE

EU MISSIONS

RESTORE OUR OCEAN & WATERS

We reconnect rivers, restore biodiversity and hydromorphology, and promote scalable solutions for freshwater conservation in the Danube Basin (across Europe)





DANUBElifelines Objectives

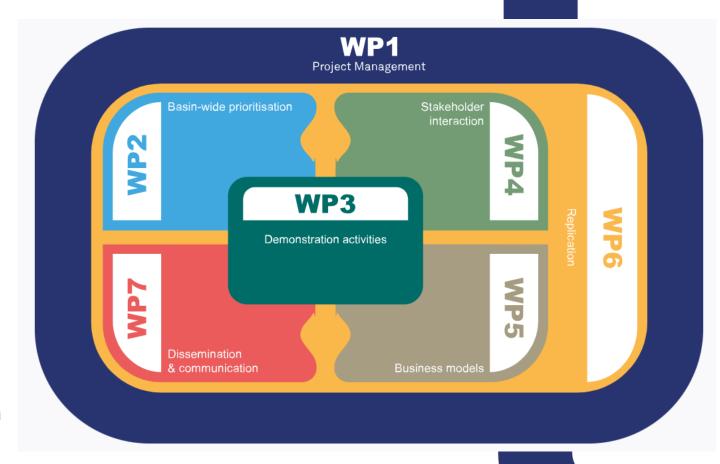
- Demonstrate and evaluate solutions for migratory fish and their habitats
- 2. Identify and prioritise **transnational migration corridors** (Free-Flowing Rivers; NRR)
- 3. Establish strategies for an effective **uptake of the Action Plan** by local, regional, and national authorities
- 4. Train and educate stakeholders
- 5. Promote the replication of the demonstrated solutions
- 6. Identify innovative business models for sustainable economic transformation





DANUBElifelines Work Packages

- WP1 Project Coordination
- WP2 Basin-wide Prioritisation
 - Locating the Problem
- WP3 Demonstration Activities
 - From Theory to Practice
- WP4 Stakeholder Interaction
 - Working with People
- WP5 Business Models
 - Supporting the Business
- WP6 Replication & Exploitation
 - Guideline, synthesis and action plan
- WP7 Dissemination & Communication
 - Spread the Word

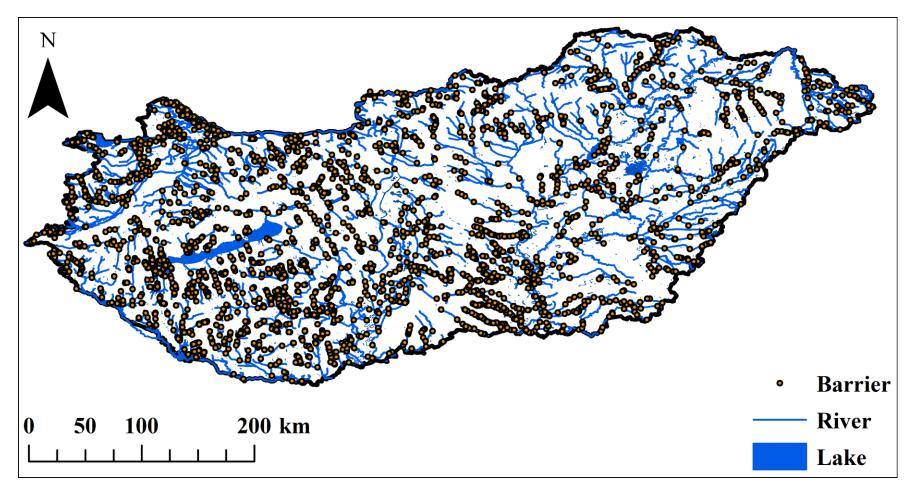




DANUBElifelines WP2
Basin level analyses



DANUBElifelines WP2 Basin level analyses







DANUBElifelines WP2 Basin level analyses

- Develop a spatial framework for conservation planning of migratory fish
- Assess distribution, conservation status, and threats of migratory fish in the DRB
- Update barrier inventories and assess habitats impacts
- Prioritize restoration strategies based on cost-benefit analysis and trade-offs under data- deficient scenarios





DANUBElifelines WP3 Demonstration Sites

- 8 demonstration sites in the DRB
- From Germany to Romania

Targeting different aspects in relation to restoration and protection of migratory fish





DANUBElifelines WP3 Demonstration Sites

- 8 demonstration sites in the DRB
- From Germany to Romania

Targeting different aspects in relation to restoration and protection of migratory fish

21 target fish species

incl. anadromous & potamodromous

species

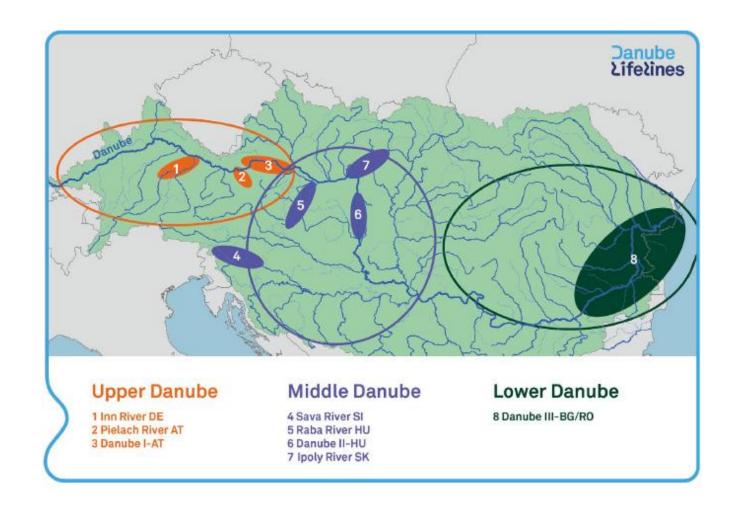
Jiamouromous		MEASI	DE - In	AT - D	AT - Pi	SK - Ip	HU - D	HU - R	SI - Sc	RO/BG	DANU
Anadromous species	Acipenseridae										
	Huso huso										
	Acipenser gueldenstaedtii										
	Acipenser stellatus										
	Clupeidae										
	Alosa immaculata										
	Alosa tanaica										
٩	Salmonidae										
	Salmo labrax				·						



Litelines		MEASURES sp	DE - Inn-Dan	AT - Danube	AT - Pielach	SK - Ipoly	HU - Danube	HU - Raba	SL - Sava Rive	RO/BG - Lowe	DANUBElifelin
Potamodromous species	Acipenseridae										
	Acipenser nudiventris										
	Acipenser ruthenus										
	Cyprinidae										
	Pelecus cultratus										
	Vimba vimba										
	Chondrostoma nasus										
	Barbus barbus										
	Rutilus virgo										
	Leuciscus aspius										
	Leuciscus idus										
	Cyprinus carpio carpio										
	Ballerus ballerus										
	Salmonidae										
	Hucho hucho										
	Thymallus thymallus										
	Percidae										
	Zingel zingel										
	Zingel streber										
	Gymnocephalus schraetser										



DANUBElifelines Demonstration Sites







DLL Demonstration Sites – Inn (DE)

- Aim: Holistic assessment of restoration sites to improve migratory fish habitats and populations >150 km corridors.
- Output: Evidence for planning restoration and maintaining positive effects.











DLL Demonstration Sites – Pielach (AT)

- Aim: Demonstrate benefits of nature-based solutions for Danube salmon and European grayling.
- Output: Monitor new connectivity solutions, flood protection, ecological status.









DLL Demonstration Sites – Danube I (AT)

- Aim: Demonstrate benefits of restoration measures in a fragmented system; support EU 'free-flowing rivers' concept.
- Output: Guide further restoration, sustain migratory fish populations, implement national park activities.









DLL Demonstration Sites – Sava River (SI)

- Aim: Develop national strategy for Danube salmon conservation as best practice.
- Output: Co-creative conservation planning, raise recognition of habitat restoration, telemetry data for behavioural-ecological study.









DLL Demonstration Sites – Ipel/Ipoly River (SK/HU)

- Aim: Harmonize flood protection, nature conservation, and economic activities via multi-actor co-creation. Identify critical habitats for migratory fish.
- Output: Restoration priorities and management plans (supporting RBMP, NRR). Technical documentation for new fish pass construction on a crucial barrier.









DLL Demonstration Sites – Danube II (HU)

- Aim: Prioritize side arms for restoration, assess habitat quality and lateral connectivity, develop monitoring methods.
- Output: Management plans, map of critical habitats and key restoration/conservation areas, support RBMP, NRR.









DLL Demonstration Sites – Rába River (HU)

- Aim: Restoration plan for oxbow reconnection; enhance stakeholder communication.
- Output: Restoration plan and authorization; create new spawning areas and habitats.









DLL Demonstration Sites – Danube III (BG/RO)

- Aim: Map Pontic shad & sturgeon habitats; improve fishers' livelihoods and social perception.
- Output: Recommendations for management, protect habitats, reduce fishing pressure and poaching.











Associated Regions

Supporting the ARs in:

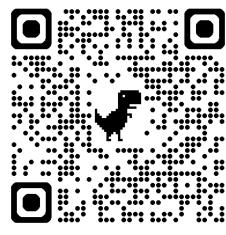
- Monitoring fish populations and habitat conditions
- Planning and implementation of habitat restoration
- Design and evaluation of restoration measures
- Stakeholder engagement
- Development of action plans

Call open till 31.12.2025

Bosnia, Croatia, Czech Republic, Montenegro, Ukraine are eligible as AR in DLL

Up to 100.000 € for "local & regional authorities"





Danube Lifelines

About Demosites News Associated Regions

Call for Associated Regions



Background

The DANUBElifelines Project

Call for Proposal

Who Can Apply?

Funding & Eligibility

Application Process

FAQs

Downloads

Background

Freshwater migratory fish are among the most threatened groups of vertebrates globally, facing dramatic The loss of migration corridors — essential for their life cycles — combined with the degradation of critical spawning, feeding, and refuge habitats, has left many species at risk of extinction. Despite growing awareness and policy frameworks at the EU and international levels, the protection and restoration of migratory fish habitats remain limited, fragmented, and often insufficiently implemented. Existing legal instruments frequently fall short protecting migratory fish is not only a matter of conserving biodiversity — it also carries significant ecological cultural, and economic benefits. Migratory fish act as indicators of river health and support ecosystem services management and fisheries to energy, transport, and regional planning.



DANUBElifelines WP4 Stakeholder interactions

- Enhance awareness, communication, cooperation, and understanding among DRB stakeholders
- Guidelines and recommendations for harmonized use of planning and legal instruments
- Incentives for sustainable investment in the DRB





DANUBElifelines WP5 DLL Business Club

Show how business can thrive with impact from fish-friendly hydropower to eco-tourism and sustainable fisheries.

Hands-on, practical learning:

- Real-world case studies from the Danube region
- One-on-one business mentoring tailored to your needs
- Training modules designed to be directly applicable, from funding to marketing
- Business Club Newsletter
- Free online training sessions







DANUBElifelines (WP6) Key Outputs

- DLL Action Plan A Blueprint for the recovery of migratory fish
- Danube Fish Migration and Connectivity Atlas
- Synthesis of existing solutions for the protection and restoration of migratory fish and their habitats
- Vocal education training (VET) materials for authorities
- Business mentorship program
- Replication roadmaps for 5 Associated Regions
- Restoration & conservation plans (Slovenia, Slovakia, Hungary), and habitat prioritisation (Slovakia, Slovenia, Hungary, Romania, Bulgaria)
- Communication channels and event activities





Danube Lifelines

https://danubelifelines.eu



https://bsky.app/profile/danubelifelines.bsky.social https://www.linkedin.com/company/danubelifelines/ https://www.facebook.com/DanubeLifelines https://www.instagram.com/danubelifelines https://www.youtube.com/@DanubeLifelines



https://danubelifelines.eu/

About Demosites News Associated Regions





Restoring Europe's Lifeline

DANUBElifelines paves the way towards the recovery of migratory fish and their habitats in the Danube River Basin. Through 8 demonstration sites and a wide network of partners spanning from Germany's Black Forest to Romania's Danube Delta, we reconnect rivers, restore biodiversity, and promote scalable solutions for freshwater conservation across Europe.





DANUBElifelines Demonstration Sites





This demonstration site focuses on restoring fish migration and habitat connectivity ...



Pielach

The Pielach River site demonstrates how Naturebased Solutions can benefit migratory fish ...



Danube I

This site evaluates a combination of Nature-based Restoration actions across a highly ...



Sava

The Sava River Basin demonstration site supports the development of Slovenia's national ...





Rába

The Rába River demo site focuses on restoring connectivity between an isolated oxbow ...



Danube II

This demonstration site focuses on the development of a science-based, stakeholder ...



Ipoly

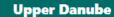
The Ipoly River demonstration site focuses on integrative restoration planning to support



Danube III

This demo site aims to strengthen protection of five threatened migratory fish species,...





Middle Danube

Lower Danube





Ref. Ares(2024)6709199 - 23/09/2024

DANUBE LIFELINES – SAFEGUARDING MIGRATORY FISH AND THEIR HABITATS IN THE DANUBE RIVER BASIN AND BEYOND



Danube Lifelines

Figure 1.3: Top: Issues to be solved for migratory fish; from left: Inn (Germany), Pielach (Austria), and Ipoly (Slovakia) Bottom: Solutions to be assessed; from left: reconnected tributary to the Danube (Austria), oxbows and their role for migratory fish (Hungary), restoration of critical habitats for Danube salmon (Slovenia)

Ref. Ares(2024)6709199 - 23/09/2024

DANUBE LIFELINES – SAFEGUARDING MIGRATORY FISH AND THEIR HABITATS IN THE DANUBE RIVER BASIN AND BEYOND





Figure 1.1: Top: Three of the 21 DANUBElifelines target species; from left: sterlet, vimba bream. barbel Bottom: Methodologies that will be applied in DLL to assess solutions for migratory fish species and their habitats; from left: eDNA sampling, net sampling; and 3 * PIT tagging antenna installation

DANUBElifelines Aims

Basin-wide

- Enhance a protected and connected network of critical habitats for migratory fish
 - Identify knowledge gaps
 - Establish new evidence and tools
- Link actors from different sectors and authorities on a national scale
 - Enhance cooperation
 - Facilitate mutual learning

Regional/local

- Identify and assess effective solutions
- Highlight key restoration opportunities and identify enabling conditions for protection and restoration
- Co-design and co-creation processes stakeholder engagement
- Develop new business and financing models





WP activities

- WP4 Stakeholder interaction
 - Enhance awareness, communication, cooperation, and understanding among DRB stakeholders
 - Guidelines and recommendations for harmonized use of planning and legal instruments
 - Incentives for sustainable investment in the DRB
- WP5 Business models
 - Business mentoring and training to enhance the capabilities of business owners
 - Assessing the effectiveness of business models focused on migratory fish





DANUBElifelines Key Outputs

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