

ECO-INNOVATIVE WATER CLUSTER «LAD-SEA»

ECO-INNOVATIVE WATER CLUSTER «LAD-SEA», Ukraine

A unique freshwater innovation ecosystem
integrating ecological restoration, eco-industrial
solutions and sustainable tourism

Sector: [Freshwater Technologies, Blue Economy & Sustainable Tourism](#)

Ecosystem Type: [Sub-regional Blue Economy Innovation Ecosystem](#)

Invitation to Build a Horizon Europe Consortium HORIZON-MISS-2026-03-OCEAN-02

**Addressing aquatic pollution and biodiversity loss through nature-positive
solutions from source to sea**

We are looking for an experienced Horizon Europe Coordinator and invite European universities, research organisations, Living Labs, public authorities, environmental agencies and innovation clusters to build a strong international consortium.

To develop a large-scale demonstration project for freshwater ecosystem restoration based on:

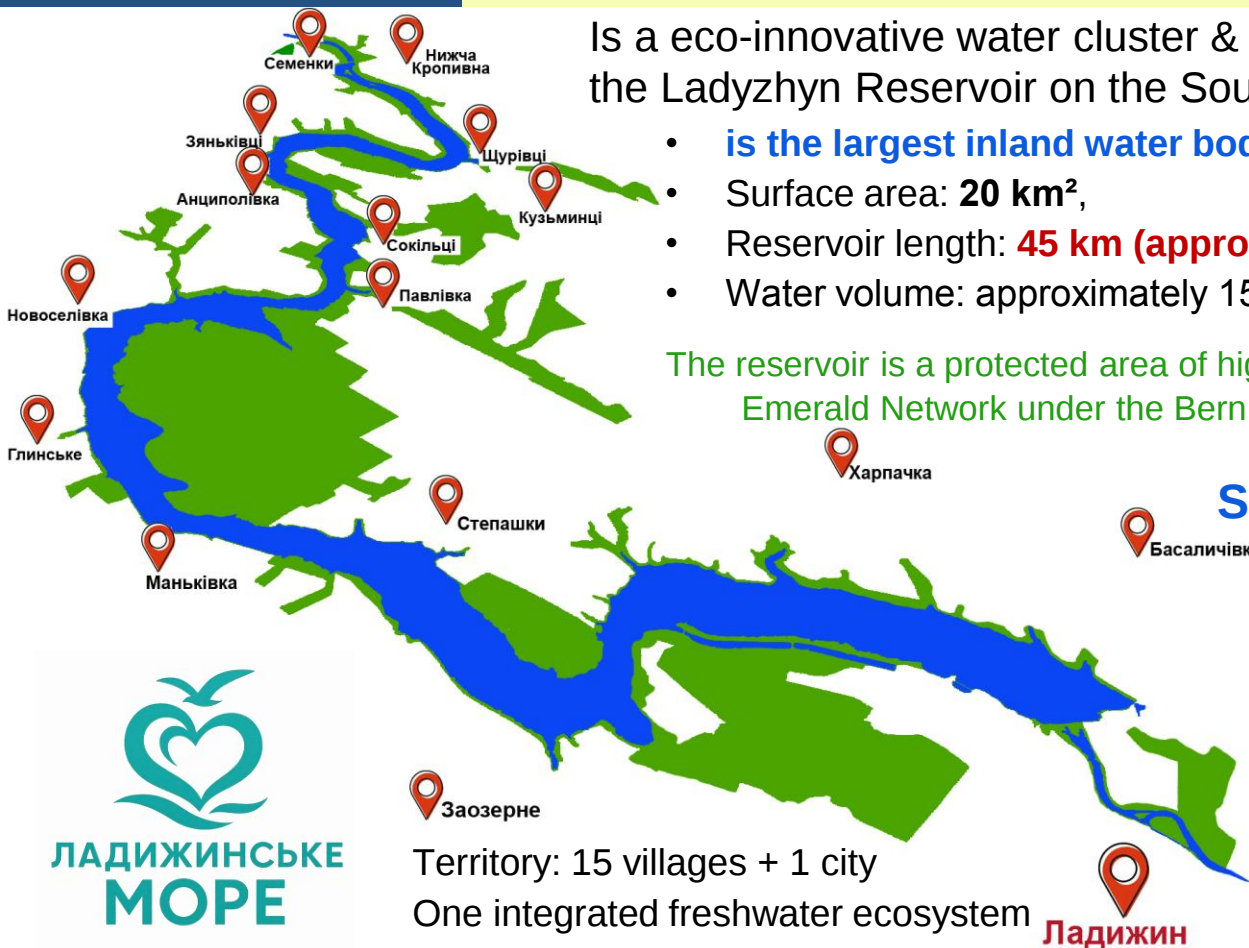
- Nature-based Solutions (NbS)
- Smart Reservoir concept
- Digital Twin technologies
- AI and IoT environmental monitoring
- Living Lab methodology
- Community-driven innovation

The ECO-INNOVATIVE WATER CLUSTER "LAD-SEA" (Ukraine) is ready to participate as a **Beneficiary responsible for establishing and operating the Ukrainian Freshwater Demonstration Site at the Ladyzhyn Reservoir.**

Is a eco-innovative water cluster & Living Lab established around the Ladyzhyn Reservoir on the Southern Bug River:

- is the largest inland water body in Vinnytsia Region, Ukraine,
- Surface area: **20 km²**,
- Reservoir length: **45 km (approximately 90 km of shoreline)**,
- Water volume: approximately 150 million m³.

The reservoir is a protected area of high ecological value and forms part of the Emerald Network under the Bern Convention: **UA0000242, UA0000333**



Sub-regional Territory

6 municipalities:

- **Ladyzhyn** City Community
- **Haisyn** City Community
- **Tulchyn** City Community
- **Bratslav** Settlement Community
- **Raihorod** Rural Community
- **Kunka** Rural Community

Territory: 15 villages + 1 city

One integrated freshwater ecosystem

Ладизжин

A unique freshwater Living Lab

The Ladyzhyn Reservoir provides an ideal real-life environment for demonstrating innovative freshwater restoration solutions.

Demonstration Capabilities

- ✓ Nature-based ecosystem restoration
- ✓ Smart Reservoir management
- ✓ Digital Twin of inland waters
- ✓ AI & IoT environmental monitoring
- ✓ Biodiversity restoration
- ✓ Freshwater Living Lab
- ✓ Stakeholder co-creation

Why here?

- Large freshwater ecosystem
- Six municipalities working together
- Strong scientific and community engagement
- High replication potential
- A unique opportunity to demonstrate nature-based freshwater restoration in an EU candidate country addressing post-war environmental challenges

«LAD-SEA» – екосистемний координатор та інтегратор ринку водної економіки



- формує (створює) ринок водної економіки;
- збирає ЛДВ прикладних водних та екоіндустріальних технологій з рекреаційною інтеграцією;
- узгоджує інтереси стейкхолдерів і формує спільну модель розвитку водних територій;
- перетворює екологію з обмеження на джерело економічної цінності;
- інтегрує інновації через водний полігон (living lab);
- координує учасників екосистеми та забезпечує реалізацію спільних програм і проєктів;
- формує правила гри: стандарти, підходи та моделі управління водними територіями;
- надає громадам інструменти для запуску та розвитку водної економіки;
- інтегрує екосистему в європейський інноваційний і екологічний простір

From one reservoir to a scalable freshwater restoration model

The Ladyzhyn Reservoir will serve as a demonstration site whose results can be transferred to other freshwater systems.

Expected impact

- ✓ Replication across reservoirs of the Southern Bug River Basin
- ✓ Expansion to **Vinnytsia and Kirovohrad Regions**
- ✓ New Ukrainian network of Freshwater Living Labs
- ✓ Transfer of EU best practices
- ✓ Support for Ukraine's Green Transition and EU integration

Our ambition: From Ladyzhyn Reservoir to a network of **Smart Reservoir Living Labs** across Ukraine.

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