ECOSOLVE4BlackSea

Applying Innovative Cooperative Solutions for Improving the Environmental Status of Eutrophic and Anoxic Aquatic Ecosystems within Regions of the Black Sea Basin

Project Acronym: ECOSOLVE4BlackSea

Project Code: BSB01268

Programme: Interreg NEXT Black Sea Basin Programme 2021–2027

Lead Partner: Decentralised Administration of Macedonia and Thrace (Greece)

About the Project

ECOSOLVE4BlackSea is a cross-border cooperation project implemented under the Interreg NEXT Black Sea Basin Programme 2021–2027, with financial support from the European Union.

The project addresses common environmental challenges affecting aquatic ecosystems in the Black Sea Basin, with particular emphasis on eutrophication, oxygen depletion (anoxia), and the deterioration of water quality.

These environmental pressures pose significant threats to aquatic biodiversity, ecosystem services, and the sustainable development of coastal and inland water environments.

Through transnational cooperation, the project aims to strengthen environmental monitoring, promote innovative management solutions, and improve the capacity of relevant authorities and stakeholders to prevent and address aquatic ecosystem degradation.

Project Objectives

The overall objective of ECOSOLVE4BlackSea is to contribute to the improvement of the environmental status of eutrophic and anoxic aquatic ecosystems in the Black Sea Basin through innovative, cooperative, and sustainable management approaches.

More specifically, the project seeks to:

- Strengthen cross-border cooperation and knowledge exchange among institutions involved in environmental protection and aquatic ecosystem management.
- Develop and promote innovative digital tools for environmental monitoring, assessment, and decision-making.
- Support the early identification and management of eutrophication risks and associated environmental pressures.
- Enhance the capacity of public authorities and relevant stakeholders to adopt sustainable environmental management practices.
- Promote environmentally responsible public procurement and the integration of innovative solutions into environmental governance.
- Increase awareness and stakeholder engagement through communication activities, training, and participatory approaches.

Main Activities

To achieve its objectives, ECOSOLVE4BlackSea will implement a series of complementary activities focusing on technological innovation, institutional cooperation, and stakeholder engagement.

These include:

Development of innovative digital tools

The project will support the development of digital solutions for environmental monitoring and management, including an e-tool and unified digital platform, tools supporting the assessment and management of eutrophication-related challenges, and the integration of Early Warning and Warning Systems (EWWS).

Promotion of sustainable environmental management

The project will contribute to the development of approaches and tools supporting environmentally responsible public procurement and more effective environmental decision-making.

Capacity building and stakeholder involvement

Through training activities, Living Labs, and knowledge-exchange initiatives, the project will encourage cooperation among public authorities, researchers, environmental organisations, and other relevant stakeholders.

Pilot activities and evaluation

The project will support pilot actions and their evaluation to assess the applicability and potential benefits of the proposed approaches and solutions.

Communication and dissemination

Communication activities will promote project results, raise environmental awareness, and facilitate the transfer of knowledge and good practices among participating regions.

Expected Results

ECOSOLVE4BlackSea is expected to contribute to:

- Improved capacity for monitoring and managing eutrophic and anoxic aquatic ecosystems.
- Increased availability and use of innovative digital tools supporting environmental assessment and decision-making.
- Enhanced cooperation and exchange of knowledge among organisations in the Black Sea Basin.
- Strengthened institutional capacities for sustainable aquatic ecosystem management.
- Increased awareness and participation of relevant stakeholders in environmental protection.
- Greater potential for the adoption and transfer of innovative environmental management practices across the participating regions.

Through these results, the project aims to support more resilient aquatic ecosystems and contribute to the long-term environmental sustainability of the Black Sea Basin.

EU Financial Support

ECOSOLVE4BlackSea (BSB01268) is implemented within the framework of the **Interreg NEXT Black Sea Basin Programme 2021–2027**, with financial support from the **European Union**.

The Programme promotes cross-border cooperation among participating countries in the Black Sea Basin, supporting joint initiatives that address shared territorial, environmental, and socio-economic challenges.

Project information: The project is part of the Interreg NEXT Black Sea Basin Programme 2021–2027.

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