

LIFE RESEAU: Innovating Wastewater Management to Tackle Environmental Challenges

Within the framework of the LIFE program, which provides funding for environmental conservation projects and the development of community environmental policies and legislation, the LIFE RESEAU project seeks to contribute to innovation in wastewater management. It addresses critical issues in regions affected by climate change. The project focuses on strategic areas to enhance water quality and reduce environmental impact, particularly in areas where heavy rainfall and increased stormwater present significant challenges.



1. **Revamping Wastewater Treatment Plants (EDARs):** LIFE RESEAU pioneers cutting-edge solutions to modernize existing EDARs, increasing their treatment capacity without the need for significant physical expansion. The goal is to minimize untreated water discharges into aquatic environments.
2. **Stormwater Management:** By implementing Storm Water Treatment Modules (SWTMs) and expanding rainwater storage capacity, the project aims to minimize pollution episodes, contributing to the gradual management of these events. This approach supports the preservation of aquatic ecosystems.
3. **Infiltration and Runoff Control:** LIFE RESEAU implements an Intelligent Infiltration/Inflow Management System (SiiMS) to quantify and control infiltrations and runoff in sanitation networks. This allows for a more precise understanding of network performance during intense precipitation events and its vulnerabilities, promoting more efficient resource utilization when addressing infrastructure and adapting to different climate change scenarios.



Climate change has led to an increase in annual precipitation and intense rainfall events, challenging urban wastewater infrastructures in Europe. This scenario poses risks of flooding, EDAR overloads, and unwanted discharges of untreated water. LIFE RESEAU emerges as an innovative response to confront these challenges. It aims to test novel solutions that seek to protect aquatic ecosystems and adapt infrastructures to a changing environment.

For more information about the project and to stay updated on its progress, visit: <https://life-reseau.eu>