

THE PROJECT'S OBJECTIVES



Provide a **risk-based toolbox** to help policymakers and utilities navigate the transition between centralised and decentralised pathways.



Use **AI-driven analytics, Digital Twins and remote monitoring** to manage multi-source water systems through a Common Operational Picture.



Launch the **SOLUCIR Bubble**, a model for co-design and co-creation that increases societal readiness and stakeholder engagement.



Develop **long-term performance-based business models and innovative co-funding schemes** to ensure financial viability.



Advance the operationalisation of EU water policies and provide **targeted recommendations to remove regulatory barriers**.



Demonstrate solutions for **faster service recovery in post-disaster scenarios and emerging economies**.

GENERAL INFO



Start date: 01 January 2026



Duration: 48 months



Budget: 5,468,287.50



Project coordinator:
National Technical University of Athens, NTUA



National
Technical
University
of Athens

KWR

KWB
Kompetenzzentrum
Wasser Berlin

eurecat
Centre Tecnològic de Catalunya



Imperial College
London



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SOLUTIONS FOR CIRCULAR WATER
AND DECENTRALISATION



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Funded by
the European Union

SOLUCIR IN A NUTSHELL



SOLUCIR is a 4-year EU-funded project designed to accelerate the adoption of circular and decentralised water management solutions. As urban populations grow and climate change strains traditional infrastructure, SOLUCIR provides the tools to integrate modular, close-to-source treatment with existing systems. Building on lessons from existing circular water solutions and innovative technologies, the project supports water utilities and decision-makers in developing practical pathways towards more resilient, flexible and sustainable water systems.



SOLUCIR METHODOLOGY



Inspirational Pilots: SOLUCIR draws knowledge from 24 Inspirational Pilots, where circular and decentralised water technologies are already implemented, generating valuable technical and operational insights.



Pathfinder Studies: Collaborating with local stakeholders in 5 EU areas and 1 Transferability Study in South Africa to develop realistic, large-scale adoption plans that «augment» existing services with circular solutions.



Smart Insights Hub: Utilising Large Language Models and Knowledge Graphs to extract lessons from real-world pilots and turn them into a digital knowledge base for decision-makers.



Decision Making: Develop a Decision Framework supported by risk analysis and optimisation tools to evaluate both decentralised and centralised water system options, producing decentralisation pathways.



Digital Tools: Deploying smart data models and Digital Twin blueprints to enhance and optimise operational efficiency and dynamic Life Cycle Assessments.



Business: Promote long-term performance-based business models and explore co-funding schemes for the deployment and operation of centralised-decentralised systems.



The “Innovation Bubble”: A structured approach to training, policy alignment and market innovation, ensuring solutions are technically sound and socially accepted.

PATHFINDING STUDIES:

5 EU Studies + 1 Transferability Study

Pathfinding Studies (PFSs) are forward-looking, case-specific studies developed within SOLUCIR to support the large-scale adoption of circular and decentralised water solutions. Based on insights from the Inspirational Pilots, they are conducted in five EU regions and one transferability case, working with local utilities and stakeholders to design scalable strategies that integrate decentralised solutions into existing water systems.

