

# Case Studies



## North Holland, Netherlands

In North Holland, RECREATE will develop a system dynamics model for the regional water system, a custom Serious Game and co-created adaptation strategies and pathways for the regional incorporation of AWR solutions.

## Kalundborg, Denmark



In Kalundborg, RECREATE will support the establishment of an integrated water management strategy for long-term and sustainable water supply to industries.



## Syros, Greece

In Syros, an island in the South Aegean, RECREATE will plan and install a secondary reclaimed wastewater piping network, monitor water reuse and desalination processes and optimise water infrastructure by conducting stress tests and creating a simulated model of the island's water distribution system.

## Costa Brava, Spain



In Costa Brava, RECREATE will support the region in extending the use of reclaimed water to more sensitive uses, such as indirect potable reuse through aquifer recharge, as part of Catalonia's plan to triple reclaimed water use in the next four years.



[www.recreate4water.eu](http://www.recreate4water.eu)

# Partners

RECREATE project partners include research organisations, city networks, municipal/local partners, and academic institutions.



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## The RECREATE Project A More Resilient Water Supply



## Our Objectives

RECREATE aims to improve the resilience of water supplies and the status of natural water resources by facilitating the assessment and inclusion of Alternative Water Resources (AWR) in water management planning, particularly for water-stressed regions in Europe. It also aims to increase awareness, acceptance and trust in the fundamental role of AWR in climate change adaptation, concentrating on the Case Study (CS) regions.

### Some of RECREATE's key results include:

- Cost-benefit demonstrations of the integration of AWR in water management;
- Establishing a Community of Practice in each of the four CS regions;
- A risk analysis of the barriers and adjustment needs in current regulatory frameworks, with a special focus on the possible potable use of AWR;
- An open-access repository of existing knowledge and data on technologies for AWR;
- A range of management strategies for AWR;
- A digital decision support framework;
- Feasibility studies for upscaling of solutions.



## RECREATE Results

Water scarcity is one of the increasingly prominent hazards across Europe in the context of climate change. Decision making needs an integrated, interdisciplinary approach to water resource management which looks at the regional and local contexts, assesses the water stress situation with regards to present and future water availability and demand, identifies the most appropriate water resources and ensures they meet fit-for-purpose quality.

### *Alternative water resources (AWR) can be a vital part of addressing water scarcity.*

RECREATE will produce an open-access knowledge repository with information on the cost-efficiency, environmental impacts and control of human health risks of different technological and water management strategies integrating AWR, which will become a key part of RECREATE's Digital Decision Support Framework, RECREATE\_WT. This will serve as a knowledge orchestrator to co-create adaptive pathways for water management, alongside additional modules covering climate change predictions, adaptation strategies to local context and a decision matrix.

## RECREATE Work Across Europe

RECREATE consortium consists of 11 diverse partners from five European countries. The project works in four Case Studies located in three of the most water-stressed biogeographical regions of Europe: North Holland (NL); Kalundborg (DK); Syros, South Aegean (GR); and Costa Brava (ES). In these Case Studies, RECREATE will demonstrate AWR strategies like rainwater harvesting, seawater and brackish water desalination, water reclamation, and aquifer storage.

RECREATE

