

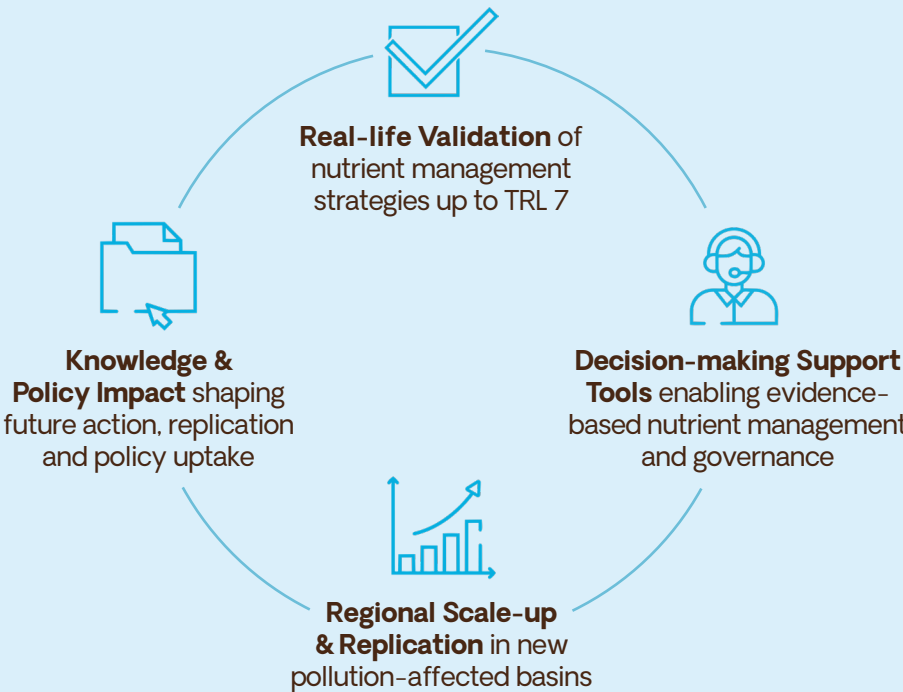
SEACURE, WHAT WE DO

SEACURE is a Horizon Europe project **demonstrating** and **scaling up** innovative solutions for nutrient management to tackle pollution in the Mediterranean Basin and beyond.

The project focuses on six regions in Spain, Italy, and Greece and acts on governance levels—policy, capacity building, awareness, and access to funding—to support regional scale-up and replication of effective strategies across other pollution-affected basins, aiming to:

- ➔ Reduce soil pollution and enhance its restoration
- ➔ Reduce fertiliser use and nutrient losses
- ➔ Prevent, reduce and remediate nutrient pollution in aquatic ecosystems

EXPECTED OUTCOMES, WHAT WE GET



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www.seacure-project.eu

CONTACT US



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Innovative solutions to **prevent, reduce and remediate nutrient pollution** across the land-river-sea system in the Mediterranean Basin

2024
SEPTEMBER
Start Date

4
YEARS
Duration

24
PARTNERS
from 5 countries

8.5
MILLIONS €
Total Budget

PROJECT PARTNERS



Funded by the European Union. Views and options expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency (REA). Neither the European Union nor the granting authority can be held responsible for them.

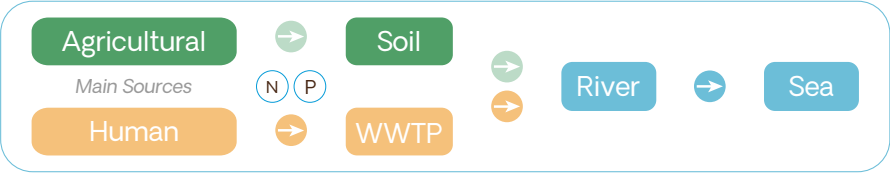


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OUR APPROACH, HOW WE DO IT

By addressing the entire **landscape–river–sea continuum**, the project applies **three integrated strategies** to address pollution from its root causes to affected ecosystems through **sustainable land practices**, **improved wastewater treatment**, and **nature restoration actions**:

Nutrient flows along the land-river-sea system in the Mediterranean Basin



Prevention

Strategies for preventing and reducing **nutrient losses from agriculture**.

Innovative soil management practices

Smart farming

Innovative nutrient management practices

Reduction

Strategies for preventing and reducing **nutrient entry in river catchments**.

Nature Based Solutions

Technological Solutions

Remediation

Strategies for eliminating **nutrient excess in ecosystems to prevent eutrophication**.

Regenerative channels and ponds

- ▶ **Co-creating regional roadmaps** with local and regional actors to guide future territorial action.
- ▶ **Testing and validating nutrient management solutions** in real-life conditions with end-users.
- ▶ **Assessing impact and feasibility** through multi-criteria evaluation and nutrient budgeting.
- ▶ **Development of an Integrated Decision-Support Tool** to evaluate intervention options.
- ▶ **Acting on governance levers:** policy, capacity building, awareness, and funding access.
- ▶ **Mobilising regional innovation ecosystems** and new regions to enable scale-up and replication.

Mar Menor Lagoon, Spain

Optimising a denitrification system to treat agricultural runoff and prevent nitrate surpluses reaching the lagoon.



Thessaly Plain, Greece

Demonstrating constructed wetlands, algae ponds, and bioswales to treat rural wastewater and runoff for safe irrigation reuse.



Po River Delta, Italy

Restoring riparian vegetation in agricultural drainage canals to enhance nutrient retention and denitrification.

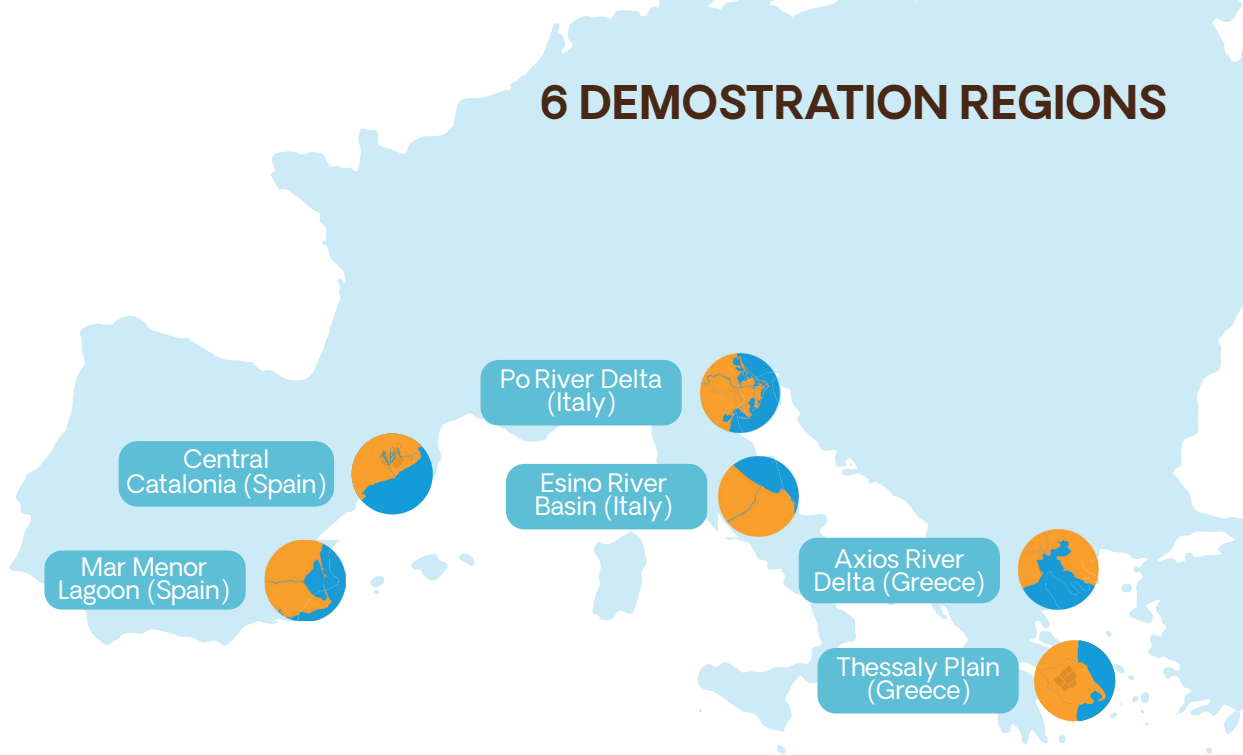


Esino River Basin, Italy

Upgrading a WWTP into a smart bio-refinery integrating enhanced biological P removal, microalgae, and constructed wetlands for water reuse and biofertiliser production.



6 DEMOSTRATION REGIONS



Axios River Delta, Greece

Integrating smart farming decision-support tools for precision fertirrigation, catch crops, biostimulants, and constructed and floating wetlands enabling water reuse.



Central Catalonia, Spain

Validating regenerative agriculture, novel perennial crops, and recovered bio-fertilisers to reduce nutrient leaching and runoff

