# Improving synergies to tackle the water quality issues: the COASTAL project

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## **The Project**

By combining local knowledge and scientific expertise in a co-creation process the COASTAL project engages actors and stakeholders at all levels to improve coastal-rural interdependence and collaboration by identifying problems and setting up evidence-based business roadmaps and policy solutions, focusing on economic growth, marine spatial planning, and environmental protection, including inland water quality

### Methodology

1 Multi-actor analysis 2 System thinking **3 Graphical System Dynamics model** 

1-Local actors and experts participate in collaborative exercises to analyze problems, the underlying causes, propose and discuss solutions, and validate and interpret the impacts of simulated business and policy decisions.

2-Qualitative and quantitative techniques are combined in this co-creation process supported by graphical tools to gain indepth understanding of the systemic transitions underlying the land-sea interactions.

### **The Charente-river case study**



**Description** The territory of the Charente river basin is characterized by a strong agricultural activity (which depends on the water resource in its upstream part) and significant shellfish and tourist activities (depending on the quality of the water) in its downstream part. The availability and quality of the water resource constitute for that reason a major stake for development of this territory. Port infrastructures and marine energies also offer real opportunities for the joint economic development of the coastal and rural areas.

**Ambition** To strengthen policies for a sustainable development of the upstream, downstream part of the basin and the coastal zone. Through an integrated approach, to coordinate opportunities for economic development of coastal and rural areas while preserving the environment and in particular the water resource



3-These systemic transitions will be synthesized and analyzed with system dynamic models to produce multiple transition scenarios for key business and policy indicators.

4-From practical these business policy solutions are roadmaps and derived, which are easily updated in the models used to support the analyses.





![](_page_0_Picture_20.jpeg)

#### Références

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## Contacts

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