



ARSINOE

Climate-resilient regions through systemic solutions and innovation

ARSINOE Challenges

As climate change is complex and interconnected with other global challenges, such as food security, water scarcity, biodiversity depletion and environmental degradation, it is no longer sufficient to use traditional approaches to innovation that focus on one aspect of the problem.

The worsening climate crisis is impacting socio-economic aspects as well as natural resources (species, habitats, forest plantations, watersheds). This is where ARSINOE project steps in to address these challenges through a range of innovative solutions.

ARSINOE Objectives

- Facilitate a fundamental transformation of economic, social and financial systems that will trigger an exponential change in decarbonization rates and strengthen climate resilience.
- Support recovery from the COVID-19 crisis and climate resilience.
- Help communities and scientists in efficiently evaluating the environmental and economic effects of climate change.
- Offer advanced Environmental Intelligence services and tools.
- Quantify, model, and manage climate risk in a systematic way through resilience.
- Facilitate knowledge transfer and exploitation for start-ups and SMEs.

9 Case Studies



CASE STUDY 1

The Athens Metropolitan Area (EL)



CASE STUDY 2

Mediterranean ports - Piraeus (EL), Limassol (CY) and Valencia (ES)



CASE STUDY 3

Main river basin (DE)



CASE STUDY 4

Ohrid / Prespa Lakes (AL, MK & EL)



CASE STUDY 5

Canary Islands (ES)



CASE STUDY 6

Black Sea (RO, BG & TR)



CASE STUDY 7

Region of Southern Denmark (DK)



CASE STUDY 8

Torbay and Devon county (UK)



CASE STUDY 9

Sardinia (IT)



ARSINOE Solutions

- **System Innovation Approach (SIA):** addresses the growing complexity, interdependencies and interconnectedness of modern societies and economies, focusing on the functions of the cross-sectoral system "as a whole".
- **Climate Innovation Window (CIW):** is the EU reference «innovations marketplace for climate adaptation technologies» developed in the previous EU-funded project BRIGAD. The ARSINOE project will develop, test and validate new innovations to be included in the CIW.
- **Innovation package:** within the ARSINOE ecosystem, pathways to solutions are co-created and co-designed by stakeholders, who can then select either existing CIW technologies, or technologies by new providers to form an innovation package for resilience to climate change. These packages are designed to be implemented in a specific region, but its building blocks are transferable and re-usable.

ARSINOE Open Calls

The ARSINOE Open Calls will be published at a European level, with thematic segments defined on the basis of needs identified in the Case Study regions. The aims of the call are to:

- ✓ Identify promising or mature innovations to be included in ARSINOE's Portfolio of Innovations, in the ARSINOE regional Innovation Packages and in the Climate Innovation Window; Take stock of trustworthy climate innovations from across Europe;
- ✓ Select the most suitable ones for implementation in our case studies;

Who do they target: To receive service contracts through ARSINOE's open tenders for Innovations, offerors have to be established legal entity based in one of the 36 eligible countries at the time of the offer. They may be **I) SMEs, II) Start-Ups, III) Spin-offs, IV) universities or RTD institutes, V) multinationals or subsidiaries/daughter companies.**

When will they take place: 2022-2023

Grants: The grants will be max 50k per innovator

KEY FACTS

Start date: 01 October 2021

Duration: 48 months

Budget: € 15 643 021,25

Aim: Building an ecosystem of innovative climate change adaptation solutions.

PROJECT COORDINATOR
Prof. Chrysi Laspidou
 Department of Civil Engineering,
 University of Thessaly



Contact us:

- www.arsinoe-project.eu
- @ARSINOE_EU
- ARSINOE_EU
- arsinoe_eu



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