CARDIMED

Climate adaptation and resilience demonstrated in the Mediterranean region

CARDIMED is a project funded by the Horizon Europe Programme focused on boosting Mediterranean climate resilience through widespread adoption of Nature-based Solutions (NbS) across regions and communities.

Project Data

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Duration of the project: 1st September 2023 - 29th February 2028 (54 months)

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Contact Us

Coordinator: Simos Malamis

National Technical University of Athens - NTUA (Athens, Greece)

cardimed@mail.ntua.gr

www.ntua.gr

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www.cardimed-project.eu

@cardimed_eu

Funded by the European Union

About the Project

"Twin digital and green transition" is at the heart of the European Green Deal objectives, and a key pathway towards a climate resilient future. However, in the sensitive, biodiverse and culturally diverse climate hotspot of the Mediterranean biogeographical region, the establishment of a nature-positive economy and a climate-resilient society based on green and digital innovation is a challenge.

CARDIMED introduce a framework to build Climate Resilience in the Mediterranean biogeographical region, efficiently unifying individual efforts of regions and communities across different countries and continents. This is achieved by deploying the digital infrastructure to harmonise the data collection and evaluation processes, providing open data to all the actors involved in the Nature-based Solutions (NbS) value chain and integrating crucial functions for Climate Resilience.

Among these functions, smart digital tools for citizen participation and capacity building supplement an ambitious multi-stakeholder engagement strategy, focused on knowledge translation and impact pathways. Furthermore, holistic modelling tools introducing the Water-Energy-Food-Ecosystems Nexus approach provides comprehensive knowledge on the complex NbS interfaces, that decisively contributes to addressing socio-ecological challenges, along with issues of valuation and low-investment rate in NbS.

These actions are implemented across 9 demonstration sites, composed of 10 regions, 20 locations and 28 communities and comprising 34 Nature-based Solutions that directly relate to more than 80 interventions and supporting units that tackle climate change and circularity challenges. The consolidation of the demonstrating regions and communities establishes the CARDIMED Resilience Alliance, that will function as the vehicle for expanding the network via upscaling the existing sites and adding new ones.

The project includes 5 transferability cases, as well as an additional 10 that will be defined during the implementation.

CARDIMED Pillars

CARDIMED bases its work on 4 pillars that allow a systemic transformation for regional climate resilience in the Mediterranean, through the unification and integration of Nature-based Solutions and other engineering infrastructures.

Digital Technologies for Climate Adaptation

is about using digital technology and data from satellites, sensors, and regular people to better understand and deal with climate change.

Socio-economic Resilience

is about collecting and using important data to create plans that make our use of water, energy, and food more efficient, so we can deal with climate change better.

WEFE Nexus

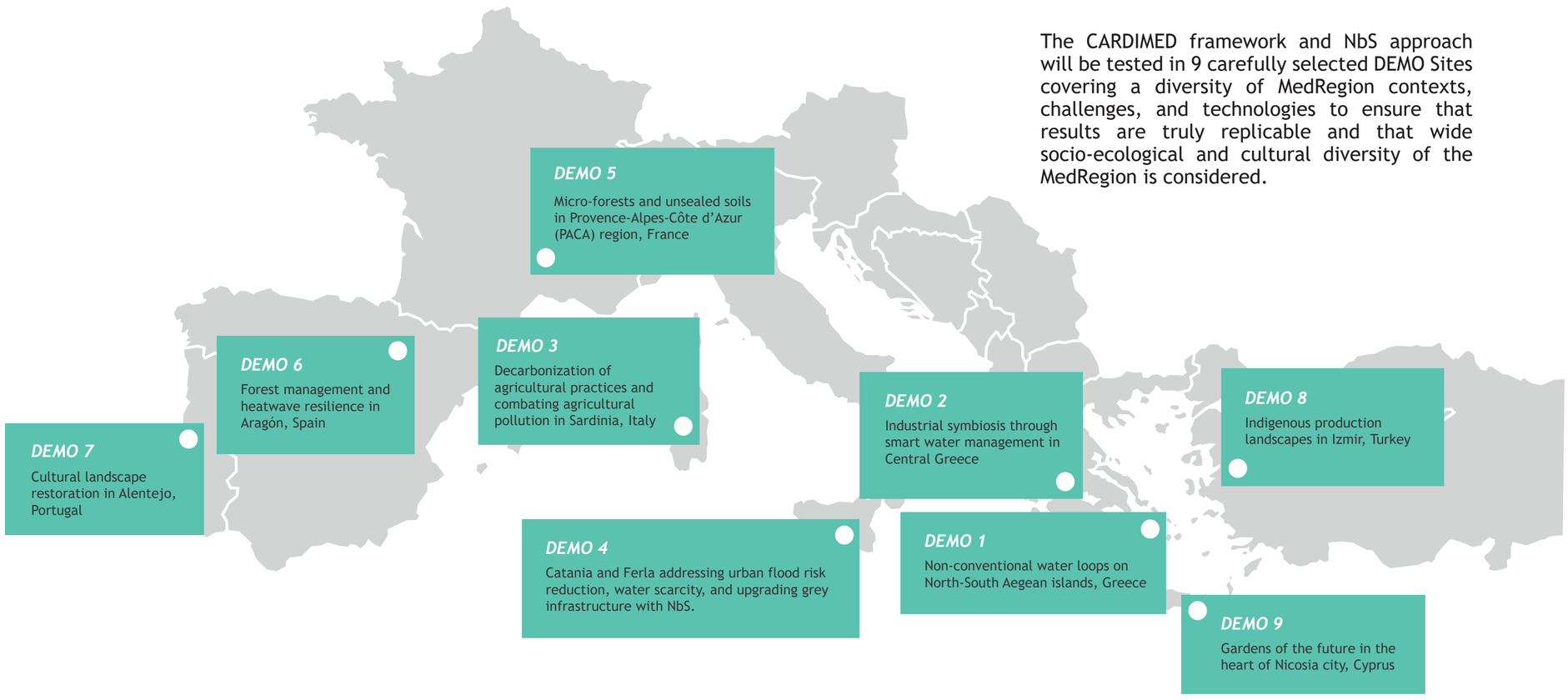
is about how we organize and involve different groups of people, how we share scientific information, and how we get the money needed, especially through businesses that work with nature.

Nature Based Solutions

is about using NbS instead of traditional gray infrastructure to fight climate change on a large scale.

DEMO Sites

The CARDIMED framework and NbS approach will be tested in 9 carefully selected DEMO Sites covering a diversity of MedRegion contexts, challenges, and technologies to ensure that results are truly replicable and that wide socio-ecological and cultural diversity of the MedRegion is considered.



Replication

CARDIMED will form a critical mass for replication, transferability, and upscaling since each DEMO site and region will evaluate replication potential and customization requirements with other regions that share challenges, hazard types, geographical, socio-economic profile.

10 Regions | **20** Locations | **28** Communities | **34** NbS | **+80** Interventions

Consortium