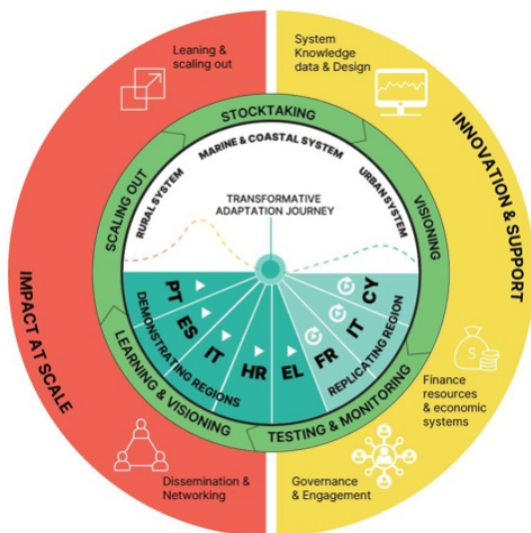




# Demonstration and mainstreaming NBS for climate resilient transformation in the Mediterranean

Climate adaptation has been within the cultural zeitgeist for some time despite limited success in achieving holistic changes. This comes at a point when we are seeing the increasing changes of the climate unfolding before our eyes. As a response to this, the **DesirMED** project (supported by 34 partners) seeks to decouple the siloed approaches that scientific, social, and governance stakeholders have taken within their efforts at climate adaptation and lasting climate resilience work. To reach this goal, DesirMED has initiated a **strategic effort to strengthen knowledge and capabilities of 8 Mediterranean regions and communities to take leadership and ownership in their transformative Climate Change Adaptation pathways** and accelerate the **implementation of transformative solutions** required to increase their resilience over the long term.



Three main components (and related innovation areas and processes) define the DesirMED's approach: **Regional Transformative Adaptation Journey:** peer-to-peer exchange between DR&RRs will be at the cornerstone in the formulation of transformative adaptation journeys, considering SH engagement strategies, information and knowledge access, and infrastructure and governance solutions.

**Enabling conditions for innovation and transformative action:** based on those defined within the Mission CCA Implementation Plan (Knowledge and Data, Governance and Engagement, Behavioural Change, and Finance and Resources).

**Impact at scale:** DesirMED will enable regions and communities to take the leadership in their Transformative Adaptation Journeys. Co-creation activities are at the core of all policy design processes in the regions, where scientists will support regional partners in organizing and planning their Regional Transformative Adaptation Pathways.

## DR1 - CIM Beiras and Serra da Estrela

**Transformation scenarios through DesirMED:** agro-forestry ecosystem restoration; water management; critical infrastructure; inclusion of digital solutions.

## DR2 - Comunidad Valenciana

**Transformation scenarios through DesirMED:** fire prevention in Valencian forests.

## DR3 - Sardinia Region

**Transformation scenarios through DesirMED:** Predicting the morphological evolution of coastal systems; Coastal monitoring, coastal planning, design using naturalistic engineering techniques; Design of blue-green solutions, involving fisheries and aquaculture, agriculture and tourism sectors and biodiversity protection; Testing innovative governance solutions for nature conservation.

## DR4 - Split-Dalmatia County

**Transformation scenarios through DesirMED:** Innovative NbS for narrow coastal strip as a protection from flooding and erosion; Solutions for increasing soil permeability; "Greening" of beaches – coastal afforestation for erosion protection and temperature alleviation; Renaturalization of tributaries (Jadro River area); NbS for Urban-Heat Islands; Innovative financing solutions for NbS.

## DR5 - Eastern Macedonia & Thrace

**Transformation scenarios through DesirMED:** Water Saving Technologies, including precision irrigation and soil moisture sensors, based on a Region-wide study on Climate Change impact on droughts and water demand in agriculture; Site-specific studies of geotubes impact on coastal protection and NbS for flood adaptation; Site-specific study of Constructed Wetlands performance as a wastewater treatment system.



## RR1 - Région Sud

**Transformation scenarios through DesirMED:** Set up a regional governance through the development of a network/ technical board for transformative actions; Work with urban/territorial planners and engineers to support natural solutions and green infrastructures.

## RR2 - Province of Potenza

**Transformation scenarios through DesirMED:** Overall governance's improving process; ack of resources. Need for improving the capacities of attracting innovative resources including NbS actors; Lack of adaptive strategies and public support; Need for progressive structural territorial requalification and regeneration, including NbS deployment; Territorial/urban structures unfit to cope with disasters and Climate Changes effects. Need for progressive structural urban requalification including NbS; Lack of information (including data); Lack of skills and capacities.

## RR3 - Cyprus

**Transformation scenarios through DesirMED:** Local authorities are examining the potential of implementing breakwaters in the area; Development of indicator set for monitoring effectiveness; Urban planning to move away from promoting urban sprawl and concrete jungles.



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Selected case studies

