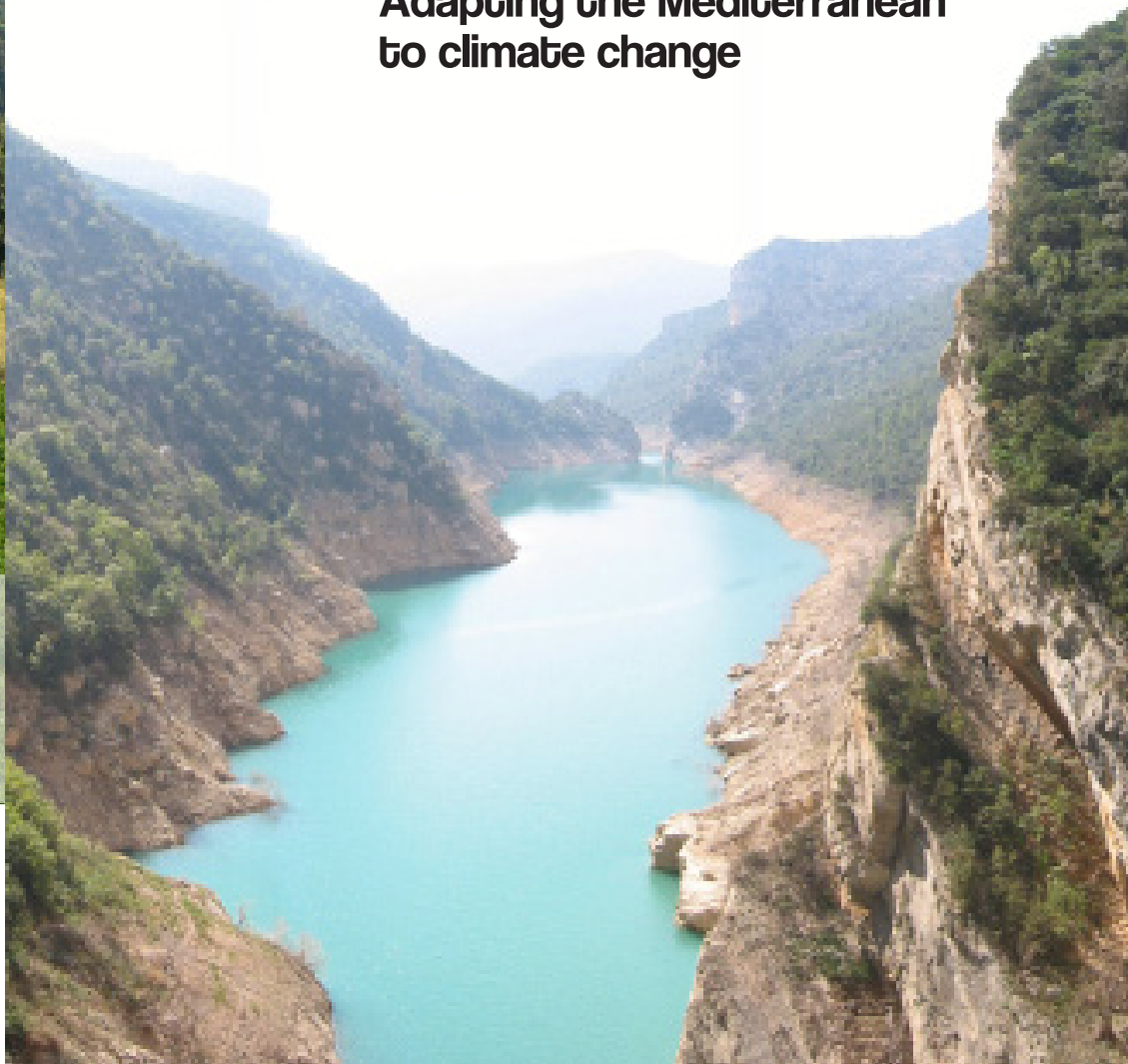




With the support of



Adapting the Mediterranean  
to climate change



Adapting the Mediterranean  
to climate change

Tel: +34 93 444 50 00  
Av. Diagonal, 523-525  
08029 Barcelona

[www.medacc-life.eu](http://www.medacc-life.eu)  
[info@medacc-life.eu](mailto:info@medacc-life.eu)

COORDINATION



PARTICIPANTS



**MEDACC project (LIFE12 ENV/ES/000536 *Demonstration and validation of innovative methodology for regional climate change adaptation in the Mediterranean area*) is a 5-year multi-actor project. It started in the summer of 2013 supported by the EU LIFE+- Environmental Policy & Governance programme. The project budget amounts to 2.548.841€ being the European Commission contribution of 1.266.208€.**



**Adapting the Mediterranean to climate change**

MEDACC aims at testing innovative solutions in order to adapt agro-forest and urban systems to climate change in the Mediterranean basin. Thus, MEDACC contributes to the design and implementation of adaptive strategies and policies which are being developed at national and regional level in the Euro-Mediterranean area. In Catalonia, MEDACC will be a useful tool in the implementation of the Catalan Strategy for Climate Change Adaptation (ESCACC 2013-2020).

### PROJECT ACTIONS

- Involvement of local stakeholders, contributing with their knowledge and experience.
- Assessment of the main impacts of climate change and territorial vulnerabilities of three watersheds in Catalonia.
- Diagnosis of previous adaptation measures applied in the watersheds and definition of new adaptation measures to be applied.
- Implementation of pilot actions to test some of the newly proposed adaptation measures in the three watersheds (agriculture and forestry)
- Monitoring of the effects of the pilot actions in the three watersheds.
- Results dissemination into different platforms and networks.

### RESULTS

Expected project results will contribute to quantify how adaptation measures can reduce the vulnerability of natural systems and human activities to climate change. In addition, the project will assess the environmental and economic costs related to the application or not of adaptation measures.

### WATERSHEDS

The project will focus on three specific watersheds in Catalonia (Muga, Ter and Segre), chosen to represent Mediterranean diversity at a local scale. MEDACC attempts to provide a methodological approach extendable to other Mediterranean watersheds.



### El Segre

13.000 km<sup>2</sup>  
Area

It is the largest river of Catalonia and tributary to Ebro River.

140.000 ha  
Irrigated surface

63%  
Forests

34%  
Crops

#### Water demand

This watershed is highly stressed by agricultural demands, approximately 95% of total water demands. It affects the river ecologic status and groundwater quality.

### El Ter

2.955 km<sup>2</sup>  
Area

It contributes to Barcelona water supply.

19%  
Crops

75%  
Forests

32.390 ha  
Irrigated surface

#### Water demand

The river supports, together with Llobregat River, the water supply of the Metropolitan Region of Barcelona. More than 50% of the renewable water resources of Ter River are transferred to Barcelona every year. Water demand is mainly for urban users (74% in 2007). The current situation frequently implies the non-accomplishment of the ecological flows defined for the low part of the river.

### La Muga

758 km<sup>2</sup>  
Area

A watershed mainly influenced by Mediterranean conditions.

71%  
Forests

24%  
Crops

11.225 ha  
Irrigated surface

#### Water demand

Crops consume 75% of the watershed water demand whereas urban users consume 20%, with a population of 140.000 inhabitants. Muga River is mainly stressed by irrigation collections threatening the alluvial groundwater recharge and the river ecological stream flow.