



Climate change: yes, we care!

# CHANGE WE CARE

Climate challenges on coastal and transitional changing areas: Weaving a Cross-Adriatic Response





## PROJECT OVERVIEW

The project intends to explore climate risks faced by coastal and transition areas contributing to a better understanding of the impact of climate variability and change on water regimes, salt intrusion, tourism, biodiversity and agro-ecosystems affecting the cooperation area. The main aim is to define a paradigm for transferring successful methods of analysis, development and implementation of adaptation measures from five pilot sites to other systems facing similar problems at the cross-border scale and to deliver integrated, ecosystem-based and shared planning options, coupled with adaptation measures to decision makers and coastal communities.

## PARTNERSHIP



## PILOT SITE OVERVIEW

NAME	KAŠTELA BAY AND JADRO RIVER
Country	Croatia
Responsible Partner	Public Institution for the Coordination and Development of Split-Dalmatia County (RERA)
Reference Map	 
General description	The bay is one of the most productive sites of Central Adriatic Sea situated in a closed coastal area strongly influenced by the freshwater runoff coming from the Jadro river and affected by pollution and eutrophication problems.

### Contact person

Mili Novac  
 Public Institution for the Coordination and Development of Split-Dalmatia County –RERA S.D.  
 Domovinskog Rata, 2, Split, Croatia  
 +385 xxxx xxxxxxxxxx  
[mili.novak@rera.hr](mailto:mili.novak@rera.hr)

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 CNR-ISMAR, [davide.bonaldo@ve.ismar.cnr.it](mailto:davide.bonaldo@ve.ismar.cnr.it)

## **GEOMORPHOLOGICAL AND ECOLOGICAL FEATURES**

Kaštela Bay is a semi-enclosed coastal bay, covering an area of 57 Km<sup>2</sup> and presenting an average depth of 23 m. The most important fresh water source is the Jadro River, a relatively small river with an average annual discharge of 8 m<sup>3</sup> s<sup>-1</sup>, which discharges into the eastern part of the bay. Geologically, the area forms part of a large Cretaceous-Tertiary sedimentary complex, which belongs to the structural unit of the Adriatic cretaceous carbonate sediments. Based on the primary production, the Kaštela Bay may be considered a moderately productive basin.



## **MAIN PROBLEMS TO BE TACKLED & OBJECTIVES TO ACHIEVE**

The area is suffering a number of issues related to climate change such as sea level and air temperature rise, heat wave increase, increase flooding events and appearance of long-lasting dry periods. During the summer months, almost 50% of water flow at the source of Jadro drains for the needs of water supply and the intensity of urbanization represents a threat for environmental quality status of both the river and the bay. For these reasons there is an urgent need to activate measures for reducing the flood risk, for mitigating the salt water intrusion and for protecting the sensitive ecosystem of Kastela Bay.

## **ACTIVITIES TO CARRY OUT & STAKEHOLDER TO BE INVOLVED**

The Project intends to implement guidelines for Jadro river management for promoting a sustainable development of the whole Kastela Bay coastal system. These activities will be carried out in collaboration with City of Solin, Split-Dalmatia County, Public institution for management of protected nature "Sea and Karst" Croatian Waters, INA – national oil company, Croatian railways, CEMEX Croatia – cement factory and local NGO's and initiatives.

