

Acronym – CASCADE

Title – CoAStal and marine waters integrated monitoring systems for ecosystems ProteCtion AnD managemEnt

Scientific coordinators – Francesco Musco, Daniele Brigolin

Department – Department of Architecture and Arts

Sector ERC – SH2_6; LS8_8

Iuav Role – partner

Lead partner – Regione Puglia

Duration – 36 months

Start – 01/01/2020

Closure – 31/12/2022

Project budget – € 5.817.547,00

Iuav budget – € 325.170,00

Funding to Iuav – € 325.170,00

Source of funding – EU Call: INTERREG Italia-Croatia 2014-2020 Programme – Call for proposal 2019 Strategic

Description – CASCADE will develop a set of concerted and coordinated actions including monitoring (observing and modelling) and management (Maritime Spatial Planning - MSP, Integrated Coastal Zone Management - ICZM, Land-Sea Interactions assessment - LSI) to enhance the knowledge and to evaluate the quality and assess the vulnerability of inland, coastal and marine ecosystems in Italy and Croatia with the final objective to restore endangered species and to support integrated management. The integrated modelling and observing systems will be developed to design and implement MSP/LSI/ICZM, management and restoration actions in 11 pilot areas. Pilot actions will assess and protect coastal and marine biodiversity in degraded areas, set up restoration actions, assess the impacts of extreme events on ecosystems and understand how to avoid conflicts and boost synergies in the areas. The project will consolidate long-lasting research capabilities in the field through a concrete dialogue with stakeholders and the participation of Agencies, research centres and universities in order to enhance inland, coastal and marine knowledge. Such shared information and monitoring protocols are essential for supporting concrete actions dealing with environmental vulnerability, fragmentation and safeguarding of ecosystem services at cross-border level.

Objectives – The project overall objective is to increase marine knowledge through the consolidation and integration of inland and marine waters monitoring (observing and modelling) tools to address environmental vulnerability, fragmentation, and the safeguarding of ecosystem services, to support the protection of marine ecosystems and to develop science-based restoration methodologies and actions to assess the impacts of extreme events on marine ecosystems. In particular, CASCADE will concretely contribute to biodiversity protection in several Natura 2000 sites also providing monitoring tools, best practices of restoration of endangered species and integrated management plans.

Website – www.italy-croatia.eu/web/cascade