Acronym – iDEAL

Title – DEcision support for Adaptation pLan

Scientific coordinator – Francesco Musco

Department – Department of Design and Planning in Complex Environments

ERC Sector – SH3 (SH3_2_3_9_10)

Iuav Role – partner

Lead partner – IRENA – ISTRIAN REGIONAL ENERGY AGENCY - Croazia

Duration – 21 months

Start – 01/01/2018

Closure – 30/09/2019

Project budget – € 799.191,80

Iuav budget– € 194.429,00

Funding to Iuav – € 194.429,00

Source of funding – Call EU: INTERREG Italia-Croazia 2014-2020 – Call for proposal 2017 Standard+

Description – The prevention, or at least reduction, of most diffuse effects of climate change affecting Italy-Croatia regions (overall extreme weather events, intensification of fires, drought, flooding, landslides) should be supported by a public sector better organized in the field of data and information available and their integrated elaboration.
New approaches and tools are needed to design and implement in an appropriate way long-term strategies and plans of adaptation to climate change. Too often, increased knowledge accumulated at global level on climate change by IPCC-Intergovernmental Panel on Climate Change and by worldwide most sophisticated scientific centres, does not correspond to a parallel enhancement of knowledge on how climate change works at local and micro level, and hence consequent and coherent policies. The role of regional/local authorities is of key importance to face the "last mile" of climate change. As a result, Vulnerability Mapping, foreseen within GIS-Geographic Information System (it captures, stores, analyses, manages and present data that are linked to geographic location), puts this in relation with the a specific DSS. This approach will permit, for example, to assist policy-makers during decision-making process to better understand where are localized adaptation problems - streets, roads, districts that are more frequently affected by heavy rainfall and flooding, or areas more frequently damaged by sea-storms -, to create and assess possible alternative interventions, and establish a list of interventions able to take into account administrative priorities and trade-off. Thus, more informed decisions, based on data storage linked to geographical location, evaluation of different alternatives and scenarios as well as their different socioeconomic impacts, will be allowed by a DSS. Its database will also contain data related to temperature trends, level of precipitations and any other useful data for the series of years available, in such a way as to get a climate profile of the cities/territories concerned Climate change adaptation, together with mitigation, is a long term effort that require alternative-makers with the Decision Support System enabling informed and knowledge-based decisions. In addition, territorial vulnerability of climate impacts will be assessed and localized using new technology. Output of this process will lead to indicators and geographical information which define state of climate risk and will be incorporated into DSS. This DSS will be improved by use of Geographic Information System (GIS), since climate adaptation is based on spatial processes. iDEAL involves 2 Croatian and 4 Italian partners consisting of 1 regional energy agency, 1 leading university, 1 city development agency, 2 municipalities and 1 regional park.

Objectives – The project overall objective is to support local public administrations to take appropriate decisions related to climate adaptation measures and to develop coherent and appropriate climate adaptation plans for both Croatian and Italian territories. This overall objective will be achieved through a shared process of knowledge construction and through the implementation of a common DSS-Decision Support System. Specific topics of interests of the project are: adaptation to climate change measures and prevention and management of climate related risks e.g. erosion, fires, flooding, storms and drought, including awareness Intervention field raising, civil protection and disaster management systems and infrastructures.

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