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## ***ADRIADAPT Newsletter - Issue no. 4***

*2020 | 2021*

With this issue of our newsletter we wish to inform you that, due to the COVID-19 outbreak in Italy and Croatia, the ADRIADAPT project has been officially extended to the end of June 2021, and some of the ADRIADAPT project activities have been postponed.

Most of our project partners are now working from home. Until the safety notice will be in our favor to organize our planned meetings and events live - our next project meeting and other internal meetings will be held online and the

information will be, as always, delivered to you through our website and social media, as well as with the next issue of the ADRIADAPT Newsletter.

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**ADRIADAPT – A Resilience information platform for Adriatic cities and towns** started officially on January 1st 2019, and unites technicians, policy makers, planners and scientists from Italy and Croatia in their efforts for **creating a knowledge base for cities and towns in adapting to climate change**. Supporting cities in creating good and sustainable strategies, building resilience and preparing for climate change is increasingly important also for cities and towns in the Adriatic area; climate change impacts are becoming progressively concrete with more extreme weather events as well as with slow onset impacts on the population, habitats in and around cities and in consequence, on local economies.

Cities and towns, as concentrations of cultural, social and economic activities along the Adriatic coasts, need to prepare for coastal and river flooding, coastal erosion and subsidence in order to maintain and enhance their ability to support livelihoods, local and regional economies and infrastructures. Further challenges for the Adriatic coastal areas are connected to freshwater availability under threat by the salinization of aquifers and fires related to droughts and heat waves.

One of the main outputs of the ADRIADAPT project will be an Italian-Croatian adaptation platform – a tool to support municipalities in both countries in developing adaptation plans or progressing their ongoing work on climate change adaptation.

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## **ADRIADAPT project partners**

### **Expert partners:**

- [Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici \(CMCC\)](#)

### **Local partners:**

- [Unione Dei Comuni Valle Del Savio](#)
- [Comune di Cervia](#)
- [Comune di Udine](#)

- [Agenzia regionale per la prevenzione, l'ambiente e l'energia dell'Emilia-Romagna \(ARPAE\)](#)
- [Universita luav di Venezia \(IUAV\)](#)
- [Centar za regionalne aktivnosti Programa prioritetnih akcija \(PAP/RAC\)](#)
- [Državni hidrometeorološki zavod \(DHMZ\)](#)
- [Šibensko-kninska županija](#)
- [Grad Vodice](#)

**Communication partners:**

- [Društvo za oblikovanje održivog razvoja \(DOOR\)](#)

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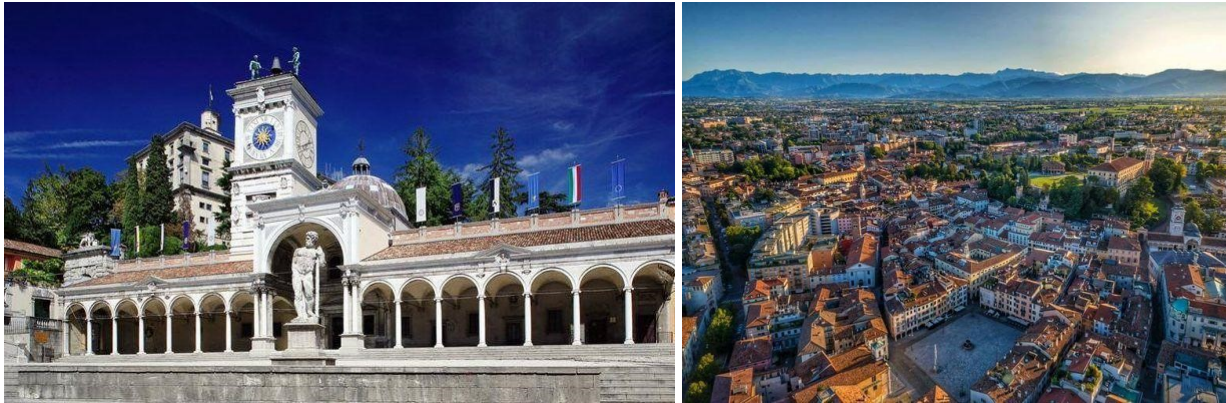
## Local partner-municipality: **Comune di Udine**



- [Local community - basic info](#)

The City of Udine is situated in the North-East of Italy in the center of the Region of Friuli-Venezia Giulia. The city is in a strategic position thanks to its proximity to Slovenia to the east and Austria to the north and being halfway between the sea and the mountains present in the region. Udine covers an

area of about 55 km<sup>2</sup> with a population of about 99,000 inhabitants.



- Major concerns regarding climate change

The City of Udine has several critical issues related to climate change and it's particularly subject to heat waves and extreme weather events associated with hydrogeological risk. These events may have a serious impact on the health of citizens due to the excessive heat in urbanized areas, on transport which may be affected by infrastructure problems due to flooding caused by heavy rains, often associated with a very strong wind.

The natural environment is an important asset to preserve: damages to the green heritage and internal rivers that cross the city can have serious consequences on the mitigating effects of these natural elements on climate change.

- Current status in development of planning documents

The City of Udine has joined the Covenant of Mayors and in 2009 has drawn up the Sustainable Energy Action Plan aligned with European 2020 objectives. At the moment the municipality has prepared the draft of its Action Plan for Sustainable Energy and Climate (SECAP) which integrates issue of adaptation to climate change. Territorial analyses for improving local planning tools and stream of actions have to be defined to safeguard the territory.

The document, almost finished, finds in the Adriadapt project an important ally in order to develop the policies and the necessary strategies to improve the resilience of the city of Udine.

- Implemented measures

The Municipality of Udine has implemented several measures aimed at mitigating climate change through energy efficiency interventions and reduction of greenhouse gas emissions.

Several important regulations have been approved in order to answer to the requirements of mitigation and strategic planning of the territory like Building Regulation, Energy Regulations for Private Constructions, the Urban Plan for Mobility and the Local Development Plan.

In addition, various projects have been initiated to educate people about sustainability and environmental awareness, especially in local schools.



## Expert partner: IUAV UNIVERSITY OF VENICE



Iuav is a small university entirely dedicated to the project. Born in 1926 as the University Institute of Architecture in Venice, from 2001 the university became [Iuav University of Venice](#) and added to the historical architecture the territorial planning and design and arts faculties.

In 2018, Iuav entered into force the new Statute thanks to which Iuav recovers the status of "special school" which defines it since its foundation and which offers the possibility of reorganizing itself freely, guaranteeing organizational simplification and managerial operations.

IUAV is today a place of teaching, advanced training and research in the field of design of spaces and environments inhabited by man and is the only university in Italy entirely dedicated to teaching and

research in the field of design disciplines: Architecture, Planning and urban planning, Design, Arts, Fashion, Theater and performing arts. The fundamental structure for carrying out university research is the Department of Culture of the project. Luav research covers a wide range of knowledge and territories. Among these: architecture and archeology, architecture and dynamic systems of the earth, urban policies, cities and sustainability, communicating knowledge, knowledge and decision, the art of building, housing, the landscape project, territorial governance, innovation and efficient construction, memory and story of arts, fashion and design, the fashion project, north-south and degrowth processes, new frontiers of design, theater production, infrastructure and mobility, representation, semiotics, communication and interaction, restoration, historical studies.

Among the various research groups operating within the university, the [Planning Climate Change \(PCC\)](#) research group studies and works recognizing territorial planning as part of the complex and dynamic combination of relationships between man and nature. Given the growing interest in the effects of climate change, the protection of biodiversity and the depletion of resources, the research work carried out by the CCP aims to provide processes, models and solutions, in which the sustainability of the transformations that involve the territory, the environment and the city, become an essential paradigm. Made up of young researchers with different skills and experiences, PCC carries out innovative and multidisciplinary theoretical and applicative research. The consolidated training of all researchers, characterized by different and at the same time complementary specializations, guarantees the possibility of a synergistic offer between the different aspects of territorial planning. The main feature of the research group is the ability to coordinate and manage all the research and project phases, from the regulatory scales to the implementation scales.

Within the ADRIADAPT project, Luav is responsible for the work package [\(WP5\) "Testing integrated resilience tools for the Adriatic coastal areas"](#). The goal of WP5 is to develop an innovative type of climate change adaptation plan for each study area, based on a common knowledge framework that can be modulated according to the context, using the guidelines and tools developed in WP4. In the Adriatic area, climate change is expected to bring about changes in the temperature of the sea surface, in the frequency and intensity of precipitation and in the availability of water, as well as in the rise in sea level, an increase in forest fires and frequency of heat waves, and loss of biodiversity. Starting from this information, the activities within the WP will study how urban and coastal areas and their hinterlands will be affected by climate change and how they can better prepare for the expected impacts. Considering the wide range of impacts and their interconnections, climate interventions and policies will focus on integrated areas, such as, for example, inland-city-coastal-marine typological transepts. Activities within the WP will also test the guidelines, tools and options provided in WP3 and WP4 to define a vulnerability and feasibility analysis and all technical products. Under the coordination of Luav, permanent thematic groups will be created in each pilot area, consisting of local policy makers and

stakeholders who manage the integration of climate change into local policies and instruments and propose actions to be implemented during the duration of the project and after its conclusion.

WP5 emphasizes the integration of actions (for example green infrastructures) and strategies developed at different levels of territorial governance, in order to produce the necessary bases to support the usefulness of the tools presented. The descriptions of the individual experiences will be transferred to the platform created in WP4, which can therefore be used by all stakeholders in the Adriatic basin.

The work carried out during this first part of the project focused on the analysis of the territorial vulnerabilities of the pilot areas (WP 5.1.2), as a basis for the subsequent planning phase. This part of the research has cartographically represented the following impact dynamics:

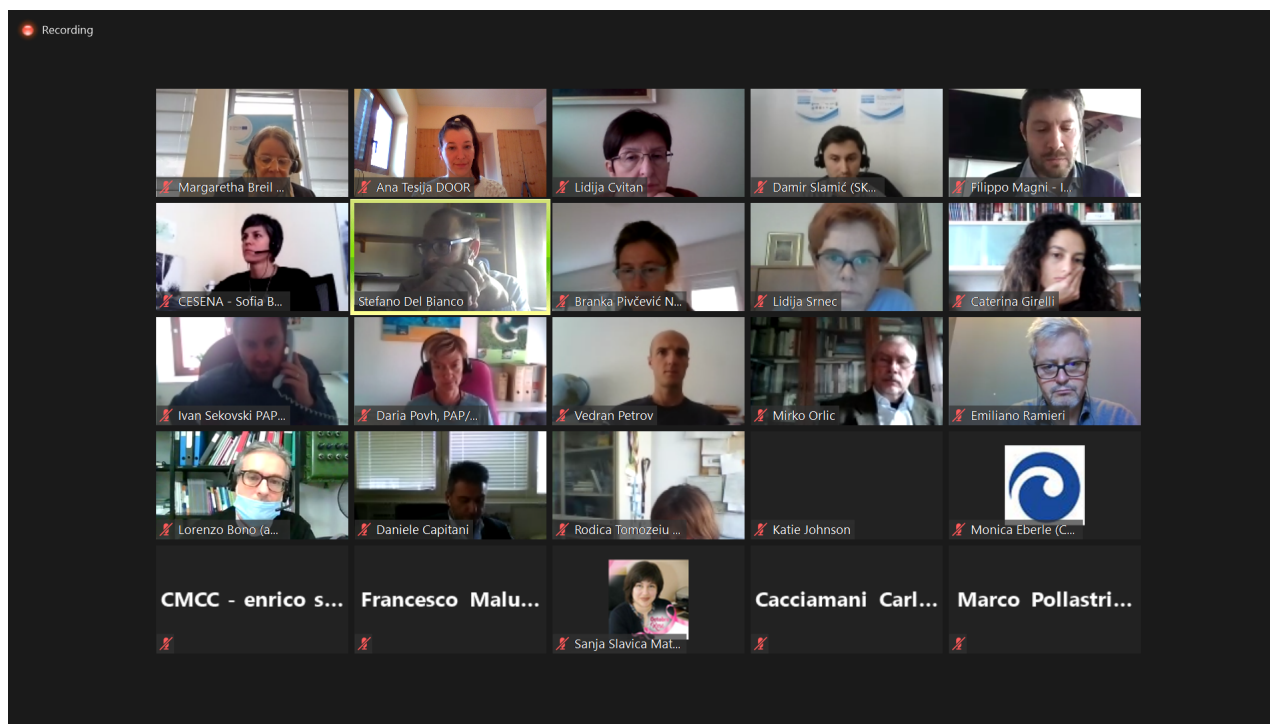
- Urban Heat Island.
  - Urban flooding.
  - Wildfire (fire risk).
  - Drought (risk of drought).
- Landslides (landslides).
- Sea-level rise (swells / high water / coast erosion).
  - Salt intrusion (ascent of the salt wedge).

At a methodological level, luav has used a selection of territorial databases cross-referenced, geo-referenced and elaborated in a multi-objective context. Impacts and vulnerabilities were assessed through the use of statistical GIS models capable of correlating the effects of Climate Change (CC) with the geomorphological and typological characteristics of the study areas.

The analysis methodology built by luav (WP 5.1.1) has provided useful indications for the reading and interpretation of the territory in terms of vulnerability to climate change. The impact analyzes indicate the need to activate governance models that are less fragmented and more coordinated with the plan plans in force and with the devices for monitoring and evaluating the construction and adaptation processes of the physical space. The results obtained from this task will serve to guide the improvement margins in the analytical-methodological and in the methodological-instrumental apparatus of the pilot areas of the project.



## Project meetings



*28th and 29th of October, 2020*

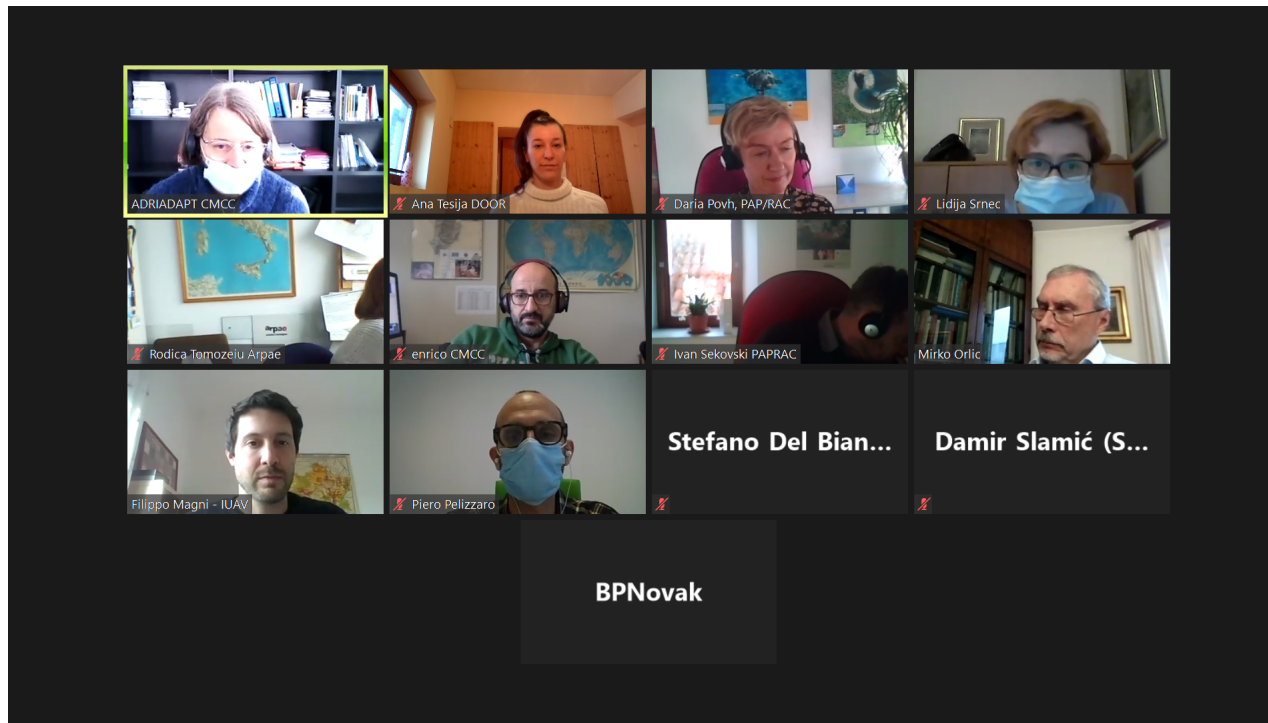
### **ADRIADAPT 2nd project meeting held online**

The ADRIADAPT project meeting took place online on the 28th and 29th of October, 2020, due to COVID-19 situation.

On the first day, 28th of October, the project partners have held the first part of the 2nd online project meeting, discussing on local activities in the cities done so far, but also what is next to be done, as well as for the knowledge platform which is slowly, but surely starting to take its shape.

On the second day, 29th of October, the project consortia has been discussing the next project activities, which include the grand event that should be held as a final conference of the project in May, 2021.





*11th of December, 2020*

### **ADRIADAPT 2nd Advisory Board meeting**

The ADRIADAPT's 2nd Advisory Board meeting was held online on the 11th of December, where the project partners and advisory board members discussed the activities in local areas, the knowledge platform and climate data, as well as dissemination activities and the final conference in Venice.

#### **Update on project's recent activities**

- Online platform for climate adaptation planning has been developed and is now in the process of content-adding.
- The ADRIADAPT promotional materials have been produced:



### General Data Protection Regulation (GDPR)

In line with the GDPR (General Data Protection Regulation), your address and personal information will be safely stored in ADRIADAPT database managed by Society for Sustainable Development Design (DOOR). Collected data will be appropriately processed to ensure security and confidentiality. We do not sell or share this information with anyone. If you no longer wish to receive ADRIADAPT newsletter, you can unsubscribe from this list at any time by clicking on the "unsubscribe from this list" link which can be found in the footer of this newsletter.

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### Project partners



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\*The project is coordinated by the Euro Mediterranean Centre on Climate Change (CMCC). Project participants include local authorities from Croatia and Italy, together with knowledge providers from the Adriatic Sea basin in the fields of climate science, climate adaptation and urban planning.\*

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