

AdriaClim

Climate change information, monitoring and management tools for
adaptation strategies in Adriatic coastal areas

Project ID: 10252001

D.2.3.1.

Info days

ALL PARTNERS

Final version

June 2023

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Emilia Romagna Pilot

1st info day

The pilot area of intervention is the whole coastline of the Emilia-Romagna Region and the themes and sectors of intervention are concentrated on the following three main themes:

- Problems, challenge and solutions relating to interventions for the protection of the coastline. The shared identification of critical aspects weak spots on the coastline and the possible solutions and interventions.
- The management of the beaches. This included both the management of the sediments on the beaches and the safe use of the beaches also in other seasons than the summer.
- Governance of the coastline strategy. The collaboration between stakeholders so as to address the long-term shared actions changes that will need to be introduced by the future coastline strategy and plan.

The Pilot Site Activities of the Emilia-Romagna Region have involved the four coastline provinces of Rimini, Cesena, Ravenna and Ferrara. The title of the participatory project is “Che Costa Sarà?” literally meaning “What Coast will it be?”. The wording “Che costa Sarà?” was chosen because in the original language (Italian) it sounds very much alike the question “*che tempo farà?*” (“*what’s the weather going to be like?*”) that people ask about the weather forecast for the next days. It is then a pun of word that can be catchy for the ear and make people think in longer terms about what the impact of climate could be on the coastal environment. This idea connects strongly to the participatory process principles in that they envisage an analysis of the state of the art (the knowledge framework) on the current conditions and impacts, forecasts of possible future evolutions, workshops about positive and negative visions of the future of the coastline and workshops about actions to be taken to address and reduce the impact of climate change, together.

Facing the current and future challenges of climate change means working in a systemic logic that involves the various regional and local components of the territory, for the shared construction of a coastal protection and adaptation strategy capable of combining the protection of environmental values, ecosystems, socio-economic and sustainable development of the whole coastal strip.

Info day title - description

Pursuing the goals of the overall path to an adaptation strategy for the coast, the first event that opened the participatory process was mainly of an informative nature, that is an InfoDay, which was held on the **23rd of April 2021**, with the title “*What will the Coastline be like? The coastal area and the challenge of climate change*”.

The general aim of the operation is to involve the main stakeholders of the coastline of the Emilia-Romagna Region in shaping the future coast management strategy to address the challenges posed by climate change.

The purpose of the participatory process is to involve in the co-design of adaptation solutions for the coastal area of Emilia-Romagna various groups of stakeholders, considered key subjects in the development of the Integrated Management for Defense and Coastal Adaptation to Climate Change (GIDAC is the Italian acronym used to resume the strategy):

- local administrations and other territorial bodies
- trade associations and representatives of business and service categories
- environmental and territorial associations
- research institutions and universities
- technical agencies and regional services

Again, this informative day had the objective to illustrate the framing of the operation, the context of reference outlined in preliminary phase, and to start the participatory path that will accompany the development of the strategy.

The InfoDay was organized by Emilia-Romagna Region, supported by the regional agency ART-ER and by the expertise of Certified Professional Facilitators (FUTOUR).

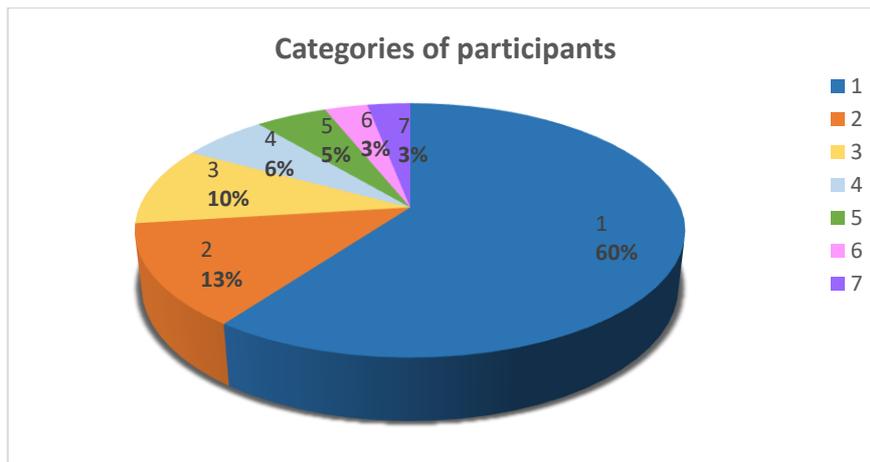
The following table presents the agenda of the day.

10.00	Institutional communications and introduction to the day: <ul style="list-style-type: none"> • Ms. Irene Priolo - Regione Emilia-Romagna, Regional Minister for the Environment, Land and Coast and Civil Protection • Mr. Andrea Corsini – Regione Emilia-Romagna, Regional Minister for Mobility and Transportation, Infrastructures, Tourism and Commerce
10.30	Framing and general overview of the pathway to the GIDAC Strategy <ul style="list-style-type: none"> • Ms. Monica Guida and Mr. Roberto Montanari – Regione Emilia-Romagna, Bureau for the Protection of the Land and the Coast and Land Reclamation
10.50	Outlooks for the climate on the regional coastline: Project AdriaClim <ul style="list-style-type: none"> • Mr. Carlo Cacciamani, Mr. Andrea Valentini – ARPAE Emilia-Romagna, Bureau for Water, Weather and Climate
11.10	Knowledge Framework for the coast <ul style="list-style-type: none"> • Ms. Luisa Perini, Mr. Lorenzo Calabrese – Regione Emilia-Romagna, Bureau for Geology, Earthquakes and Soils
11.30	The actions of the regional system for the defence of the coast

	<ul style="list-style-type: none"> Mr. Sanzio Sammarini, Mr. Christian Morolli – Regional Agency for Land Safety and Civil Protection, Emilia-Romagna
11.50	The regional coast and the Flood Risk Management Plan (second generation) <ul style="list-style-type: none"> Mr. Tommaso Simonelli – Po River basin District Authority, Ms. Patrizia Ercoli – Regione Emilia-Romagna, Bureau for the Protection of the Land and the Coast and Land Reclamation
12.10	Presentation of the participatory process “ <i>Che Costa Sarà?</i> ” (Mr. Paolo Martinez - Futour)
12..30	Presentation of the <i>digital agora</i> on the <i>IoPartecipo+</i> portal (Ms. Ana Maria Solis - Futour)

Room for interaction with the public was interspersed with the presentations. The meeting was held online over a remote meeting platform, and it has been recorded.

The graph below shows the composition in the categories (affiliations) of the participants and attendees. The InfoDay had about 170 attendees.



Legenda	
1	Municipalities and other local authorities (Region, Province, District Authority, Land Reclamation Authorities, Parks, Forestry Corps, etc.)
2	University and Research
3	Bathing Operators
4	Fishing and Aquaculture
5	Environmental Associations
6	Professions, Arts, Services (practitioners)
7	Industry & Commerce

Photos

The event has been held online, therefore no photo is available.

2nd Info day

The pilot area of intervention is the whole coastline of the Emilia-Romagna Region and the themes and sectors of intervention are concentrated on the following three main themes:

- Problems, challenge and solutions relating to interventions for the protection of the coastline. The shared identification of critical aspects weak spots on the coastline and the possible solutions and interventions.
- The management of the beaches. This included both the management of the sediments on the beaches and the safe use of the beaches also in other seasons than the summer.
- Governance and adaptation strategy of the coastline and of the coastal hinterland. The collaboration between stakeholders so as to address the long-term shared actions changes that will need to be introduced by the future coastline strategy and plan.

Following an articulated participatory process and a public consultation phase of the strategic document GIDAC, starting from February 2023, Regione Emilia-Romagna took the opportunity of extending and improving the participatory process initiated within the scope of AdriaClim project, launching the so called “Intergenerational Pact for the Coast of Emilia-Romagna” through the means of an “Innovation Camp” project, funded by the “Science Meets Regions” programme of the EC Joint Research Center.

The “Intergenerational Pact” aims at involving younger generations in the governance of the GIDAC Strategy implementation and bring junior citizens, activists and professionals to work side by side with senior experts and administrators to act for the future of the coastal environment and society, for the further elaboration of the GIDAC Strategy (“Integrated Management Strategy for Defence and Adaptation of the Regional Coast to Climate Change”).

The [“innovation camp” for an Intergenerational Pact for the Coast of Emilia-Romagna](#) developed prototypes for implementing an “Intergenerational Pact for the Coast of Emilia-Romagna – Che Costa Sarà?”.

The launching event of the Intergenerational Pact “Che Costa Sarà?” (What Coast Will It Be?) has been held on March 7th 2023.

Then 3 workshops (LABS) were held online on March 14th, 21st and 28th to work in groups (about 30 participants in total, 50% senior and 50% junior) to a set of challenges (governance, knowledge and communication) for the Intergenerational Pact and to produce prototypes to answer the challenges.

The labs were followed by a public event, the InfoDay, on the 4th of April 2023, largely participated, to present the Intergenerational Pact, the work done in the labs and the resulting prototypes, framing the outcomes in the scope of the GIDAC strategy for the adaptation of the coast of Emilia-Romagna.

In the following pages are reported the context and the program of the InfoDay, pictures of the meeting and of some significant slides and, in the Annex, the attendance list.

Intergenerational Pact for the protection and the adaptation to climate change of the coast of Region Emilia-Romagna “What coast will it be?”



FINAL MEETING - Presentation of the prototypes and proposals of the "Intergenerational Pact for the defence and adaptation of the Emilia-Romagna coast to climate change"

Online April, 4th, 2023 - 14.30-17.00

Climate change is and will be a problem with strong implications for the way we live and work in the future. The leading question that underlined this last step of the participatory process related to the GIDAC Strategy is “How to collaborate between generations to face the challenges and impacts of climate change on the coast of Emilia-Romagna? What solutions can we find and experiment together?”

Thanks to the Science Meets Regions Programme promoted by the European Commission’s Joint Research Centre to stimulate the development of evidence-based policies (#EUSci4Regio), the

"Innovation Camp" method was used to outline the main elements of a future "Intergenerational Pact for the defence and adaptation of the Emilia-Romagna coast to climate change".

During the meeting of April 4th, the prototypes and the proposals that emerged from the intergenerational challenges of the Innovation Camp will be introduced and presented, as well as their connection to the strategy of integrated management for the protection and the adaptation of the coast of the Emilia-Romagna to climate change (GIDAC).

Program of the meeting

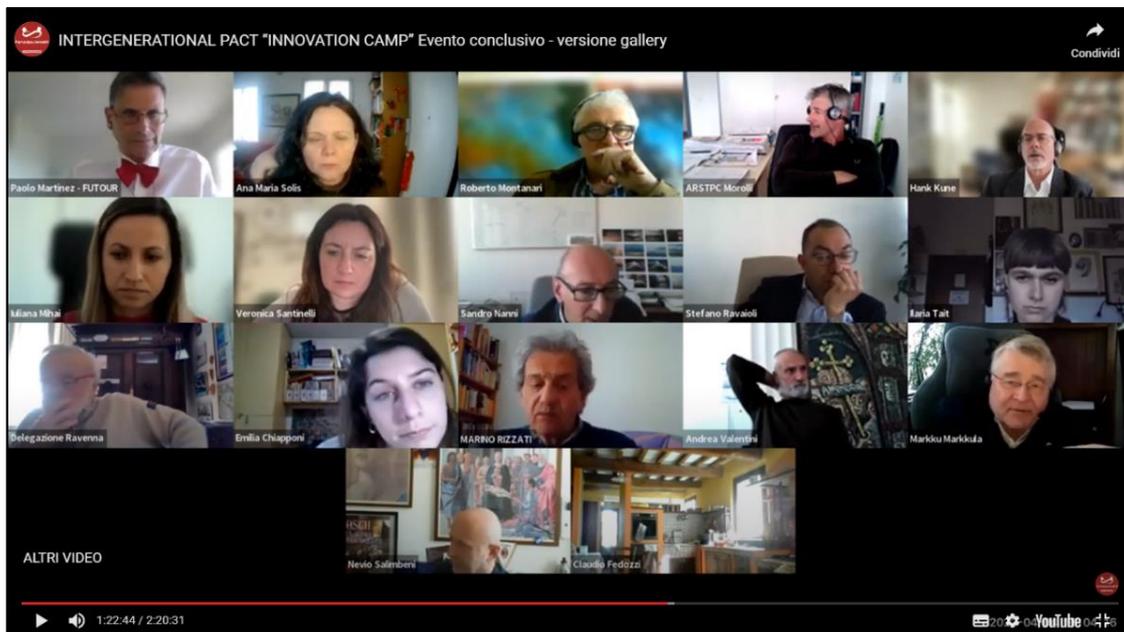
- **Introduction and general opening** - Roberto Montanari, Monica Guida (Regione Emilia-Romagna)
- **The Emilia-Romagna Region and intergenerational cooperation for climate** - Irene Priolo Vice-President - Councillor for Ecological Transition, contrast to Climate change, Environment, Soil and coast protection, Civil protection of the Emilia-Romagna Region
- **Facing global challenges by innovating together** - Markku Markkula - Vice - Chairman of the Committee of the Regions (COR) and member of the Environment Committee, climate change and energy
- **The "Science Meets Regions" programme for evidence-based policies scientific** - Stijn Verleyen, Joint Research Centre of the European Commission (JRC)
- **How we worked in the Innovation Camp to develop the pact intergenerational "What Coast Will It Be?"** - Paolo Martinez – FUTOUR
- **The prototypes for the intergenerational pact**
 - Challenge 1 - GOVERNANCE. How generations and leaders can collaborate different territorial actors for the protection of coasts and adaptation to climate change?
 - Prototype 1.1 - Consult for coast adaptation
 - Challenge 2- COMMUNICATION AND PARTICIPATION. How can we co-design a communication and participation strategy innovative and unconventional intergenerational?
 - Prototype 2.1 - Festival and Promotion
 - Prototype 2.2 - Virtual Museum
 - Challenge 3- LEARNING, MONITORING AND IMPROVEMENT CONTINUOUS. How to promote continuous learning intergenerational coastal defense?
 - Prototype 3.1 - Mapping of studies and research of the coastal area emiliano-romagnola
 - Prototype 3.2 - App with landscape information
- **Call for action to develop prototypes on regional platform Participations** - Roberto Montanari - Emilia-Romagna Region.

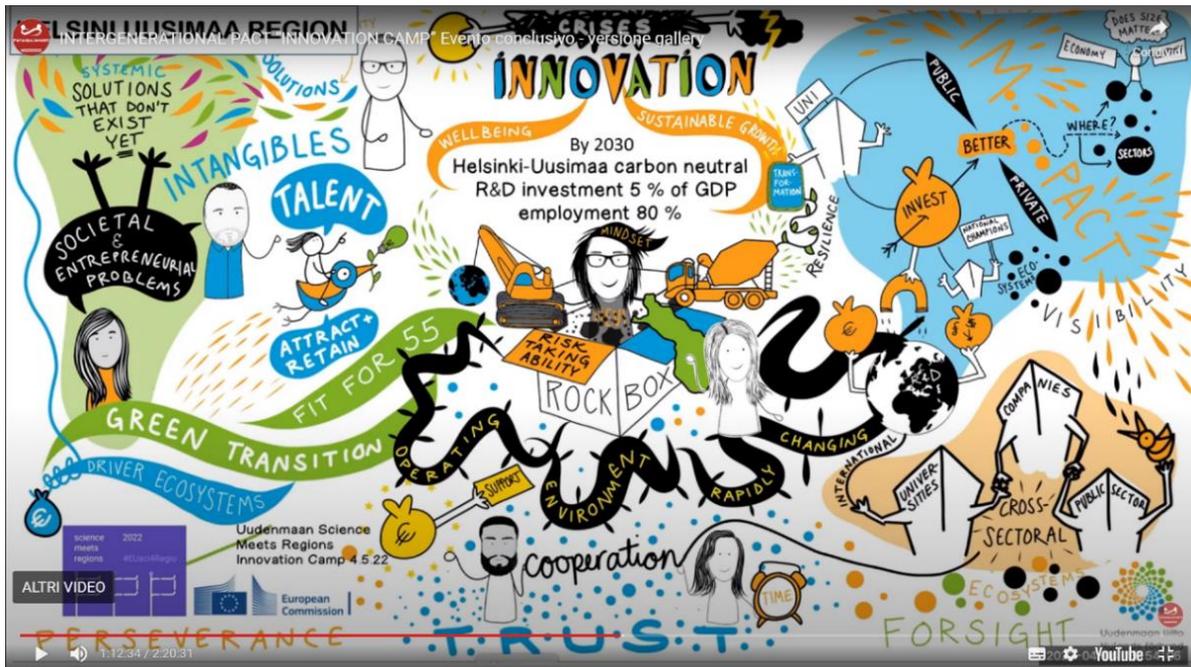
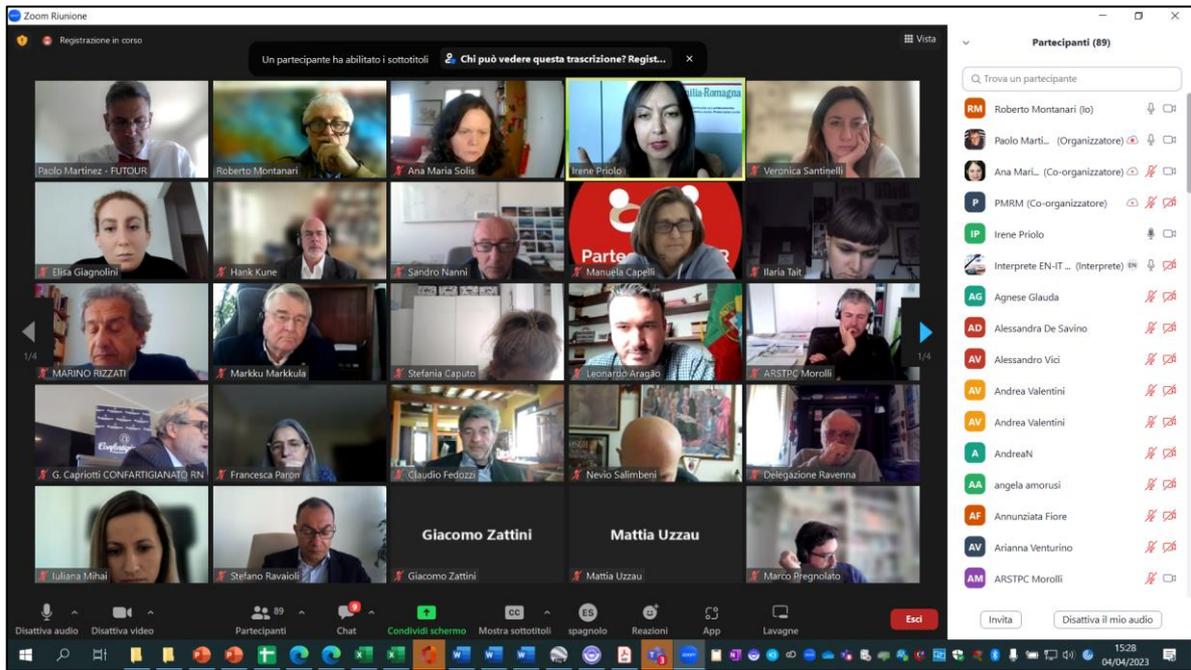
The stages of the Innovation Camp include the presentation of the themes and the path on March 7th, 2023 and then a co-design work with a small intergenerational group of participants in three stages on March 14th, 21st, 28th with the submission of proposals in this extended meeting of April 4th in which the involvement of intergenerational participation platform:

<https://partecipazioni.emr.it/processes/che-costa-sara>

Photos

The event has been held online, therefore only screenshot of the recording are available.






INTERGENERATIONAL PACT "INNOVATION OAMP" Evento conclusivo - versione gallery
1.1 - Consulta per l'adattamento della costa (1/2)


Descrizione della sfida. Qual è il problema?

- L'impatto dei cambiamenti climatici è altamente pervasivo e la **risposta** deve essere **SISTEMICA**: il problema è una generale mancanza di **conoscenza** e **consapevolezza**
- Fare sistema** (coinvolgimento di diversi attori) per **contrastare gli impatti** del cambiamento climatico e **aumentare la resilienza** del territorio e delle comunità costiere ("ambiente")
- INCLUDERE** i soggetti che hanno molto interesse ma ancora scarsa **INFLUENZA** nei processi decisionali per l'adattamento alla costa, con particolare attenzione per i più giovani, spesso esclusi dai modelli di governance
- Incrementare la **collaborazione** e l'**interazione** tra organi istituzionali a diversa competenza e responsabilità nella loro sfera di autorità (da livello da comunale a regionale)

Perché è importante?

- È **INTERESSE COMUNE**, ancora di più delle future generazioni, il mantenimento di condizioni di vita sicure, stabili, positive nella costa emiliano-romagnola
- Siamo in ritardo sull'agire**. Il cambiamento climatico è CRISI climatica (Guterres → "...è l'ultimo minuto!") e **ripristinare i danni costa** più che investire per prevenirli
- La crisi **sta già colpendo** la nostra costa in maniera durissima, ma continuando così andrà anche peggio: l'**adattamento** deve procedere velocemente **Insieme** alla **mitigazione** del CC
- Gli **interessi di alcune parti e di breve periodo** NON possono essere in contrasto con l'interesse del bene comune su ogni orizzonte temporale: **dare più peso alla società civile e alle diverse generazioni** (quelle che vivranno il futuro, quelle che hanno memoria del passato)

Spazio per foto o immagini






ALTRI VIDEO  **#EUSci4Regio** 



2.1 - Festival e Promozione (1 di 2)

Descrizione della sfida. Qual è il problema?

- Creare un grande evento per coinvolgere più persone possibili attraverso il medium dell'arte nelle sue varie ramificazioni
- Sensibilizzare la popolazione sui temi ambientali tramite l'arte

Perché è importante?

- Ci sono delle forme che sono linguaggi universali: l'arte è una di queste, e tramite le emozioni e le attività concrete può trasmettere stimoli che diffondono la sensibilità sul cambiamento climatico e l'impatto che esso ha sulle coste



 **#EUSci4Regio**

2.2 - Museo virtuale (1 di 2)

CHE COSTA
SARÀ?

Descrizione della sfida. Qual è il problema?

- Scarsa sensibilità e scarso scambio intergenerazionale da parte della cittadinanza con riguardo ai cambiamenti climatici ed ai loro effetti sul territorio locale
- Comportamento irrispettoso da parte degli utenti e degli esercizi commerciali siti lungo il territorio costiero (es. rifiuti in spiaggia)
- Assenza di strumenti di coinvolgimento omnicomprensivi

Perché è importante?

- È importante sensibilizzare la cittadinanza e promuovere lo scambio intergenerazionale nell'ottica di fornire alle comunità costiere e non gli strumenti per comprendere gli effetti dei loro comportamenti sull'ambiente che vivono e abitano, e che un giorno vivranno e abiteranno i loro figli e nipoti, nonché favorire spazi di confronto e sviluppo di partecipazione attiva

Spazio per foto o immagini



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meets
regions



#EUSci4Regio

3.1 - Mappatura di studi e ricerche dell'area costiera (1 di 2)

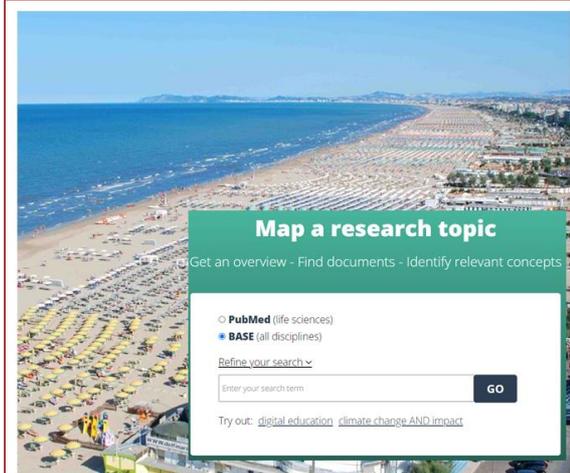


Descrizione della sfida. Qual è il problema?

- Affrontare **nuove forme complesse di problematiche ambientali e sociali** che riguardano l'area costiera emiliano-romagnola
- **Gap di comunicazione:**
 - **Diretta alla popolazione** - La comunicazione non solo del rischio costiero, ma anche dell'insieme di conoscenze sull'ambito costiero ha difficoltà a raggiungere direttamente il cittadino;
 - **Interdisciplinare** - Le conoscenze rispetto all'area costiera sono comunicate con difficoltà anche tra ambiti disciplinari diversi e tra enti/istituzioni di ricerca differenti;
 - **Intergenerazionale** - C'è un problema di trasferimento delle conoscenze da una generazione all'altra e di mancata comunicazione tra generazioni.

Perché è importante?

- Informare/comunicare vs. **co-produzione delle conoscenze**: ruolo chiave della produzione di conoscenza scientifica nel sensibilizzare la società e i decisori politici e nel favorire una loro risposta alle sfide sociali e ambientali emergenti.
- Per migliorare lo **scambio interdisciplinare** tra le diverse discipline del mondo scientifico della ricerca e **transdisciplinare** con la società civile (cittadini, policy makers e altri stakeholders come associazioni; operatori ecc. che operano sulla costa).
- Per aumentare l'efficacia e l'efficienza delle informazioni e per garantire il **trasferimento del know-how** alle generazioni future.



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3.2 - App con informazioni sul paesaggio (1 di 2)



Descrizione della sfida. Qual è il problema?

- Mancanza di informazione chiara e alla portata di tutti sui cambiamenti climatici della costa
- Mancanza di una piattaforma user-friendly per i non addetti ai lavori

Perché è importante?

- Per maturare una consapevolezza globale sui rischi legati al problema dei cambiamenti climatici lungo le coste
- Per fornire un archivio storico di informazioni sul paesaggio, luoghi, attività che potrebbero scomparire a breve per gli effetti negativi del climate changes- Story telling passato vs futuro
- Per fornire uno strumento di informazione

Spazio per foto o immagini



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meets
regions



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Veneto Coastal Pilot

1st info day

Introduction

The Veneto coast can be divided into three parts: the northern part has sandy beaches and dunes and it relies on tourism both urban (hotels and B&B) and naturalistic (camping sites); the central part is occupied by the Venice lagoon, with its delicate ecosystem, aquaculture activities and local tourism in the island of Lido; the southern part with sandy beaches and related tourism with the addition of the regional natural park of the river Pò delta, a Natura2000 area of 180 Km² between the Veneto and the neighboring region of Emilia Romagna dwelled by several species of birds and by the most part placed below the sea level.

The socio-economic structure of the Veneto coastal area relies heavily on its ecosystem services, hence their preservation as well as understanding of the inevitable future changes need to be understood and managed with a long term vision.

The 2021 infoday saw the participation of

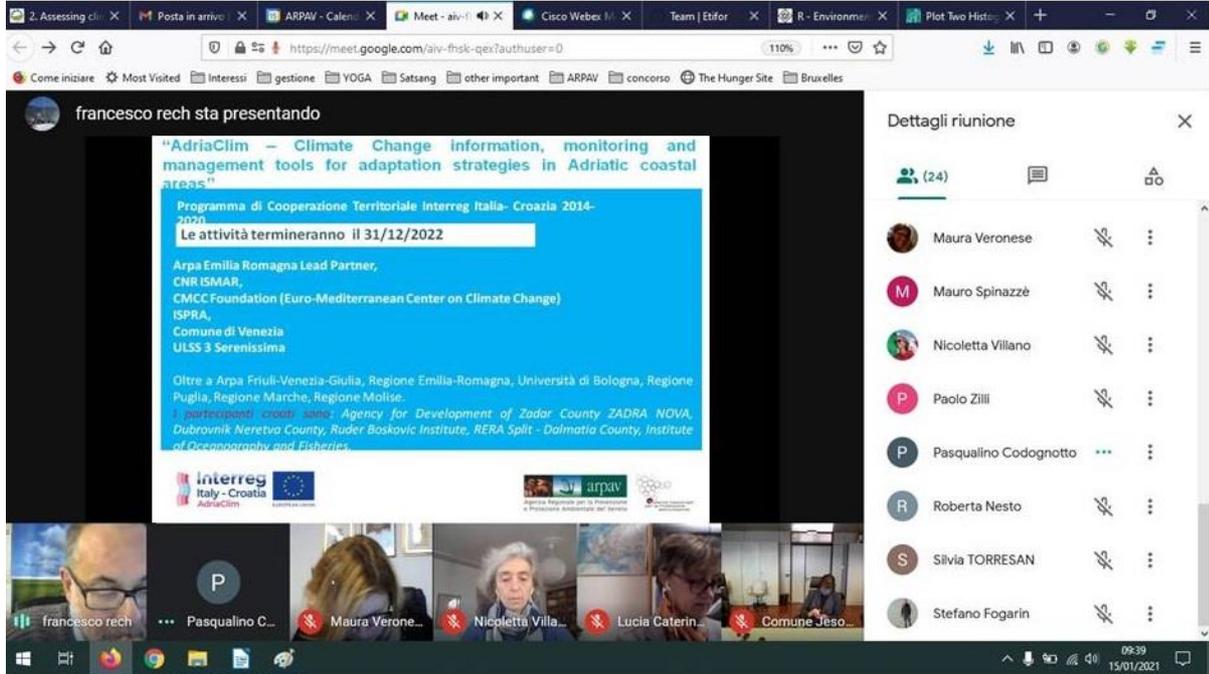
The mayors of the coastal municipalities created an association around which they regularly meet to discuss common challenges and specific topics. The adaptation on climate change was the topic of the 2021 infoday.

Climate change impacts

The infoday focused on the potential impacts of climate change on the Veneto coast for raising awareness among the mayors on the long term consequences that the territory will face even in the short and long term in the best and worst mitigation scenarios.

The meetings presented the state of the art of the climate data analysis thus far performed by the project partners and gave an idea of the expected results of the project. Furthermore the meeting was an occasion to create a link between the technical/scientific community (ARPAV, Univ. of Cà Foscari, IUAV) with the local decision makers and start a collaboration for mutual support and exchange of information: data and knowledge from the technical/scientific community to the stakeholders for awareness rising and inspiration for concrete actions, in exchange of stakeholder local knowledge and end-user needs.

Photos



francesco rech sta presentando

"AdriaClim – Climate Change information, monitoring and management tools for adaptation strategies in Adriatic coastal areas"

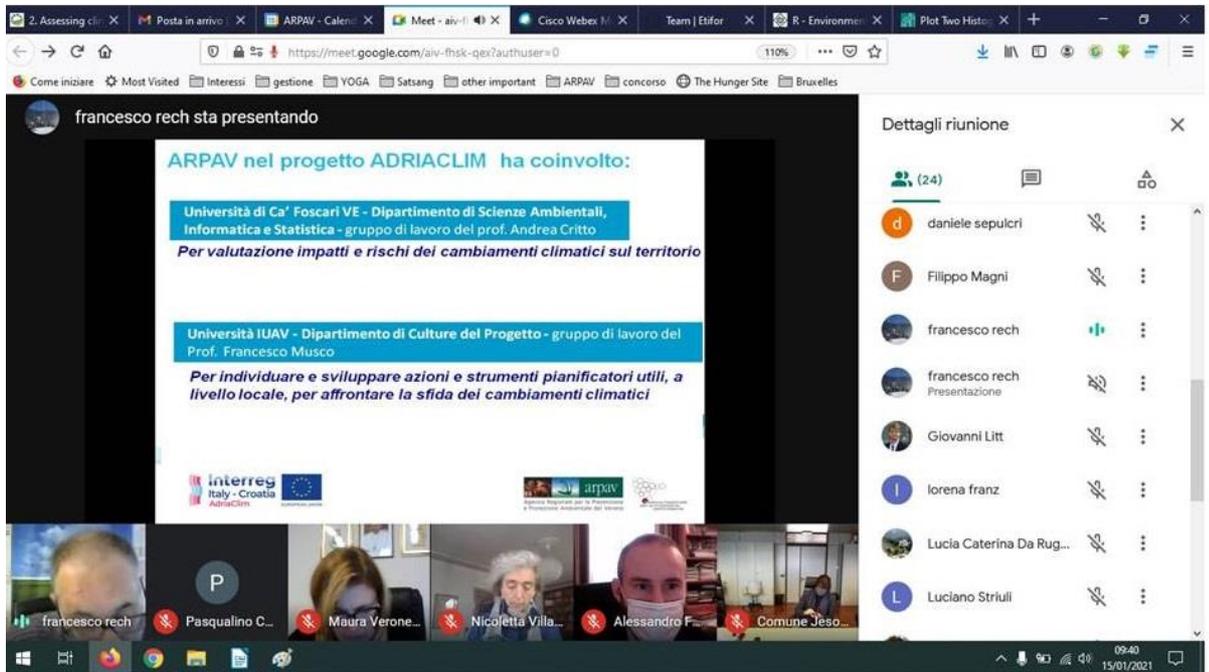
Programma di Cooperazione Territoriale Interreg Italia- Croazia 2014-2020
Le attività termineranno il 31/12/2022

Arpa Emilia Romagna Lead Partner,
CNR ISMAR,
CMCC Foundation (Euro-Mediterranean Center on Climate Change)
ISPRA,
Comuna di Venezia
ULSS 3 Serenissima

Oltre a Arpa Friuli-Venezia-Giulia, Regione Emilia-Romagna, Università di Bologna, Regione Puglia, Regione Marche, Regione Molise.
partecipanti croati sono: Agency for Development of Zadar County ZADRA NOVA, Dubrovnik Neretva County, Ruđer Bosković Institute, RERA Split - Dalmatia County, Institute of Oceanography and Fisheries.

Dettagli riunione

- (24)
- Maura Veronese
- Mauro Spinazzè
- Nicoletta Villano
- Paolo Zilli
- Pasqualino Codognotto
- Roberta Nesto
- Silvia TORRESAN
- Stefano Fogarin



francesco rech sta presentando

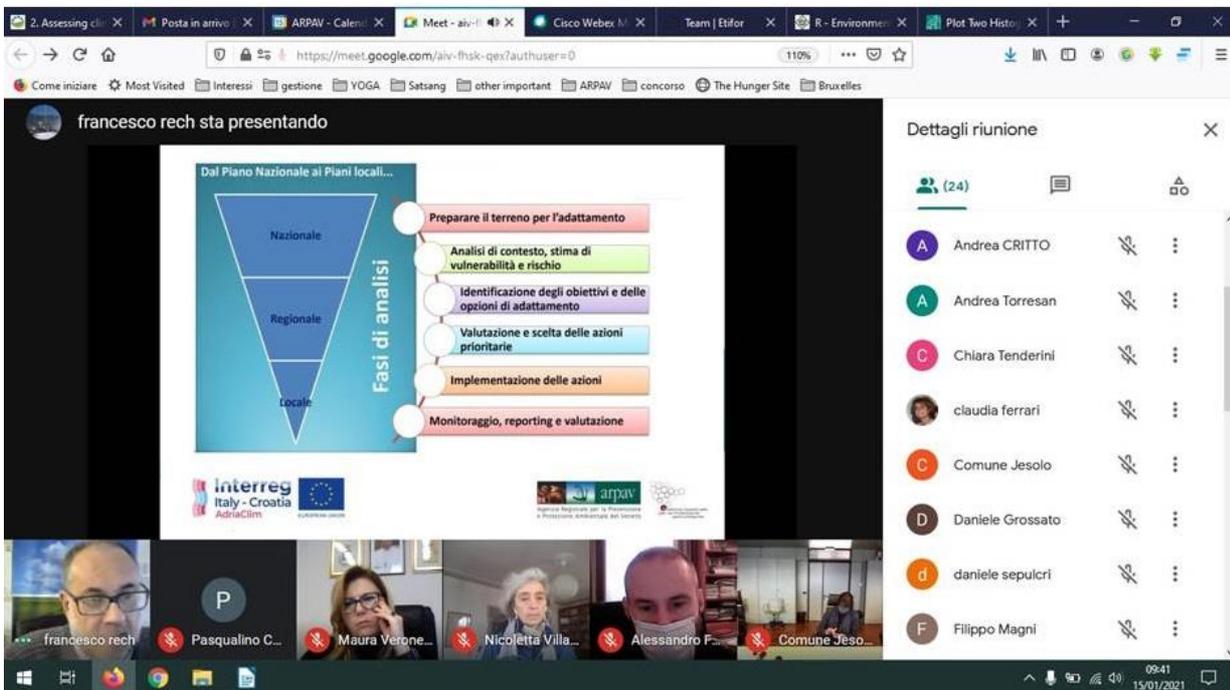
ARPAV nel progetto ADRIACLIM ha coinvolto:

Università di Ca' Foscari VE - Dipartimento di Scienze Ambientali, Informatica e Statistica - gruppo di lavoro del prof. Andrea Critto
Per valutazione impatti e rischi dei cambiamenti climatici sul territorio

Università IUAV - Dipartimento di Culture del Progetto - gruppo di lavoro del Prof. Francesco Musco
Per individuare e sviluppare azioni e strumenti pianificatori utili, a livello locale, per affrontare la sfida dei cambiamenti climatici

Dettagli riunione

- (24)
- daniele sepulcri
- Filippo Magni
- francesco rech
- francesco rech Presentazione
- Giovanni Litt
- lorena franz
- Lucia Caterina Da Rug...
- Luciano Striuli



Annexes

1. Attendance list - should be sent separately due to Programme rules. At the end of the project attendance list shouldn't be public, so please just upload it separately.

2nd Info day

As part of the Adriacim Project, the following contributed to the activities of the Veneto pilot, which covered the entire Veneto coastline: ARPA Veneto (Veneto Regional Agency for Environmental Protection and Prevention), the Municipality of Venice, ISPRA (Higher Institute for Environmental Protection and Research, operating at national level), ULSS3 Serenissima (local health authority) and CNR-ISMAR (Institute of Marine Science) in Venice.

In addition, the Luav and Ca' Foscari Universities of Venice, as associated partners, provided scientific support to ARPAV and the Municipality of Venice.

With this Workshop, at the conclusion of the Adriacim project, the partners who worked on the Veneto pilot presented the results of their activities.

The workshop was open to the public but was particularly aimed at technicians from the Veneto Region who will soon be called upon to draw up a regional climate change adaptation strategy.

More generally, the aim was to raise the awareness of local authority technicians on the issue of climate change and the consequent adaptation and mitigation actions.

Finally, it was our intention to disseminate the results of the project to university researchers and technicians from professional associations (engineers, town planners, geologists, agronomists) who are frequently involved in designing adaptation solutions.

Info day title - description

Info day description (no more than 1 page). Event description, date, place, main goals of event, who attended etc.

Thursday 8 June 2023, at the IUAV University of Venice, Aula Magna Tolentini, Santa Croce 191 (VE), was held the Workshop entitled: “Towards a Regional Strategy for Adaptation to Climate Change starting from the results of the Adriaclim Project” (in italian : “Verso la Strategia Regionale di adattamento ai Cambiamenti Climatici a partire dai risultati del Progetto Adriaclim”).

The conference was organized in five sessions:

1) working methodologies tested in the adriaclim project - with the following contributions:

- The climate study of the territory - ARPAV, Francesco Rech
- Climate Risk Assessment - Ca' Foscari, Silvia Torresan
- Urban planning in support of climate adaptation - IUAV, Denis Maragno

2) marine weather monitoring - with the following contributions:

- Marine modelling to support land management - CNR-ISMAR, Christian Ferrarin
- Monitoring and indicators for the Adriatic - ISPRA, Sara Morucci

3) practical examples of adaptation actions - with the following contributions:

- Venice, the climate challenge and the SECAP - Venice City Council, Giancarlo Gusmaroli
- An experience of defence against heat waves for the fragile population - Azienda ULSS3 Serenissima, Stefano Vianello

4) operational developments of the project - with the following contributions:

- The AdriaClim model in Emilia-Romagna - ARPAE Emilia Romagna, Andrea Valentini LP
- Towards the regional strategy of adaptation and mitigation to climate change - Veneto Region, Paolo Giandon

5) conclusions;

- The Veneto Region and adaptation to climate change climate change, Regional Councillor for the Environment, Climate, Civil Protection and Hydrogeological Desertification, Gianpaolo Bottacin.

Annex 2 reports the agenda of the interventions.

With respect to the workshop agenda: the speech “Climate risk management in the vision of the Conference of Mayors of the Veneto Coast: first inputs from the permanent tables, Laura Mosca” was replaced by the reading of a short communication; the opening greetings were made for IUAV by Prof. Denis Maragno instead of Prof. Francesco Musco, and for ARPAV Stefano Micheletti replaced the general director and also took on the role of conference moderator.

Finally, after the Councillor's speech, Benno Albrecht, rector of the Iuav University of Venice, outlined the role of university education in addressing urban and spatial planning processes.

The workshop was attended by **108 people in attendance** (including speakers) and by **32 online participants**. (Please note that before the start of the conference, 120 people had registered in presence and 48 remotely). Most of the participants are technicians from land management bodies and particularly from the Veneto Region.

The participants in attendance were provided with gadgets (1 A5 notebook, 1 A4 notebook, 1 pencil case with pencil) with the Adriaclim logo. A leaflet was also given summarising the activities of the Adriaclim project Participants on the Veneto pilot.

A satisfaction questionnaire was then sent to all participants; as of 28 June, 52 replies had been received.

The participants in attendance belonged to the following categories:

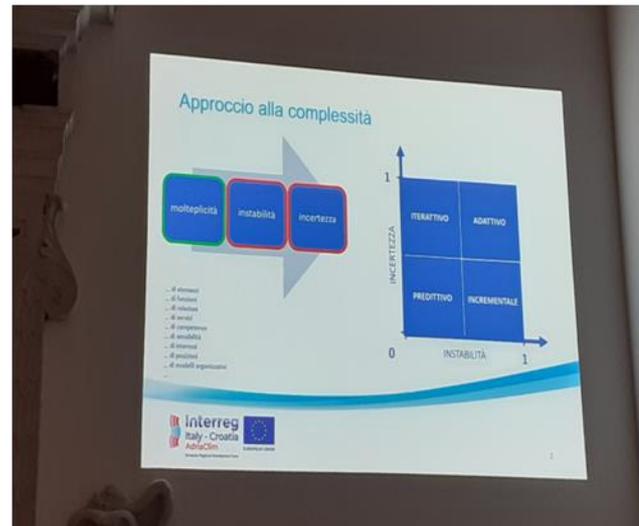
N.	Organization
27	Veneto Region
19	ARPAV
8	CMCC & Ca' Foscari
3	ISPRA
32	IUAV
2	AULSS3
4	Reclamation consortia
2	Basin Council
1	Superintendency of Public Works VE
1	Municipality of Venice
1	Finance Police
1	CNR-ISMAR
1	ETG company
1	Medicalshare company
1	Ecoingegno company
1	Company Divisione Energia
3	Engineers Order
108	Tot.

The online participants belonged to the following categories:

N.	Organization
6	Veneto Region
2	ARPAV
3	CMCC & Ca' Foscari
2	ISPRA
4	IUAV
1	Venice City Council
3	other Universities
1	Fishermen's Association
1	Farmers Association
1	Citizens' Association
4	Water and other Consortia
1	Order of Geologists
1	Meteorologist
2	Freelancers
32	Total

Photos







Annexes

1. Attendance lists - should be sent separately due to Programme rules. At the end of the project attendance list shouldn't be public, so please just upload it separately.
2. Agenda of the interventions

FVG pilot

1st Info day

INTRODUCTION

As part of the AdriaClim project communication initiatives, ARPA FVG (PP11) has organized and conducted events to inform the citizens, besides the stakeholder groups, about the project objectives and the progress of the activities, with special focus on the pilot area, where PP11 is mainly involved.

The info day, here presented, contributes to the project deliverable D.2.3.1

THE INFO DAY

The info day was held in Trieste on September 27, 2021 in the frame of a wider initiative that ARPA FVG has organized across the year 2021, with the aim to bring scientific and technical news, related to the Adriatic Sea environmental state, to the general public. The info day covered the whole morning.

The name of the initiative was “A misura di mare” and the AdriaClim info day characterized the September event, that took place in Trieste in particular on the dock “Molo Audace”, which is considered part of the city centre, but literally on the Adriatic Sea, and it is an historical urban area. Participants reached the site on foot, in few minutes from the suggestive Unità d’Italia square.

Most of the material involved in the info day came by boat, one of the ARPA FVG vessels that are used for the operational monitoring of the Gulf of Trieste waters and it is involved in the AdriaClim project data collection too.

On the dock, a stand was set up to host the speakers and the guests, besides a set of displays, and voice amplifiers to allow the participants to easily see the slides and listen to the presenters during the communications.

The AdriaClim rollups, posters created the choreographic perimeter of the stand, where desks with project promotional material was distributed to the participants, namely the AdriaClim leaflets.

There was no a formal agenda, because the event was oriented towards the interaction with the public and the media, that attended the event. Actually, the introduction of the environmental assessor of the Friuli Venezia Giulia Region, Mr. Fabio Scoccimarro, opened the day and he was followed by the Scientific and Technical Director of ARPA FVG, Mrs Anna Lutman. Both explained the relevance of INTERREG projects to increase the capability of the regional institutes and agencies to understand the present state of the environment and to investigate its future evolution, especially in the context of a fast-changing climate. Next the project main objectives were presented by the PP11

AdriaClim project manager, Mr. Dario Giaiotti, who underlined the importance of integrating the sea measurements with numerical simulations to get an improved description of the current sea and lagoon state. It was explained that, in AdriaClim, such improved knowledge is used to compare the projection of the future state of the Adriatic Sea with the present state, to the end to identify the climate change related hazards and the linked risks. The first attempt to generate high resolution simulation of the future climate of the Adriatic basin was explained in detail, specifying that this work in progress is possible thanks the AdriaClim project resources.

In the following, the info day was conducted by a moderator, a journalist, who facilitated the matching between the questions coming from public, stakeholders and media, addressed to the ARPA FVG personnel engaged in AdriaClim activities, and the answers given by the specialists.

PARTICIPANTS AND MEDIA

Besides the citizens attracted by the initiative, among the stakeholders there was also the Trieste Guard Coast, represented by the local Admiral, and the Italian Naval League, with the Trieste section President. Several media have been invited to the event and they took the opportunity to address questions to the ARPA FVG personnel involved in the AdriaClim Project. Among them the broadcast "Radio Punto Zero" and the local newspaper "Il Piccolo", that brought the information, gathered during the info day, to a wider attendance thanks to the news they issued and diffused also by way of socials.

Here below are some links to the news and the posts that have been issued by media.

Radio Punto Zero – facebook link to the event interviews

<https://www.facebook.com/watch/?v=554581705799638>

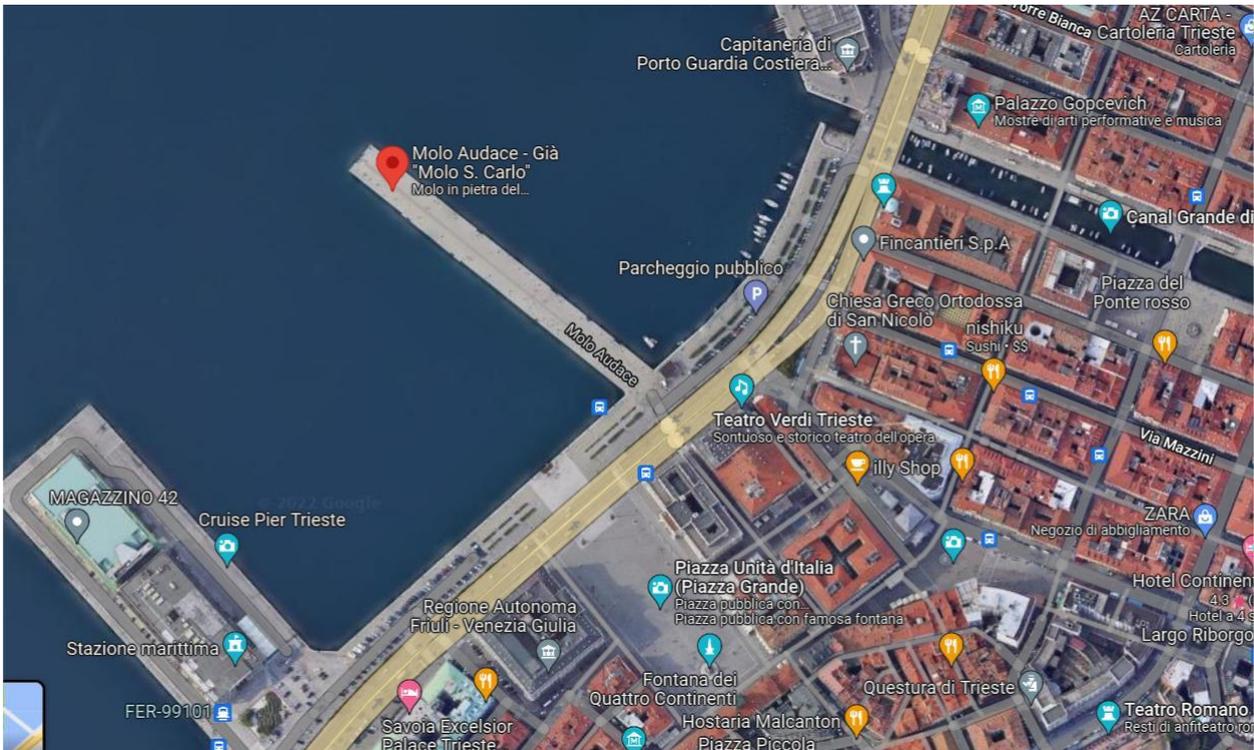
Linkedin: Lunedì 27 settembre quinto appuntamento con #Amisuradimare: in viaggio per la #sostenibilità. I progetti europei per la salvaguardia del mare saranno il focus dell'incontro. Appuntamento alle ore 11:00 al Molo Audace di #Trieste Info: <https://bit.ly/3kDAQrz> #ArpaFVG #fvg

Visualizations: 326, Reactions: 8 CTR (Click Through Rate) 2.45% Comments 0, Sharing 1

Twitter: 2021 settembre 27 #Amisuradimare @ARPAFVG presenta i progetti europei @ItalyCroatia per la salvaguardia del mare di cui è partner (Trieste, Molo Audace)

Visualizations: 683, Total interactions 22, Like 3, Retweet 2 Click on profile 4

IMAGES OF THE EVENT



The dock “Molo Audace”, where the info day took place on September 27, 2021



The stand ready for the speakers and early coming stakeholders

2nd info day

Introduction

As part of the AdriaClim project communication initiatives, ARPA FVG (PP11) has organized, participated and conducted events to inform the citizens, besides the stakeholder groups, about the project objectives and the progress of the activities, with special focus on the pilot area, where PP11 is mainly involved.

The info day, here presented, contributes to the project deliverable D.2.3.1

THE INFO DAY

The info day was held in Aquileia (UD), UNESCO site, on September 25, 2021 as part of the event "Non siamo Atlantide", included in the Festival of Sustainable Development 2021 (17 UN Agenda 2030 Objectives) and the program #All4Climate.

ARPA FVG supported the event together with other national and local guests, contributing in the discussion of festival topics, namely financial objectives besides social and environmental impacts linked to sustainability and climate change. In this frame ARPA FVG as a partner of the INTERREG IT HR AdriaClim project, presented the project activities and promoted the AdriaClim objectives.

In particular, details of the activities have been highlighted together with the importance of the project in generating new scientific information about the climate change in the pilot area of the Gulf of Trieste and in the Lagoon of Marano and Grado.

PARTICIPANTS AND MEDIA

Here below are some links to the news and the posts that have been issued by media.



2021 September 17 - NON SIAMO ATLANTIDE - Tasselli di Sostenibilità
http://www.arpa.fvg.it/cms/hp/news/Festival_non_sono_atlantide2021.html The advertisement of the event that was used to promote the initiative (published: 2021 September 17)

IMAGES OF THE EVENT



Area Aula Didattica e Sotto Pergolato

Workshop imprese (15 minuti a sessione, 9:30 - 12:00)

Biomusica e benessere d'impresa Luca Casale
Collaborazione con le aziende sui temi ambientali Michele Grego, Legambiente FVG
Impronta di carbonio Elisa Tomasinsig e Francesca Visintin, Fondatrici Eframe srl
Aziende e programmi WWF Alessandro Glandrossi, Delegato Regionale WWF Italia
Come si fa il bilancio sociale Anna Pantanali, Marketing Manager Molino Moras
I valori nella leadership Michele Giuseppin
La circolarità nelle imprese Nicola Masolini, CEO RE49
Nuove opportunità e misure regionali per le imprese Lydia Alessio - Verni,
Direttrice generale Agenzia Lavoro & SviluppoImpresa
Cambiamenti climatici e il territorio Dario Gialotti, ARPA FVG
Rete d'impresa Thomas Randi, Coordinatore SlowBike Tourism



Annexes

Moreover other documents, about the info day “Non siamo Atlantide”, are available on the AdriaClim GDrive. This information is uploaded in the following folder:

WP2-Communication > D.2.3 - EVENTS TRAINING WORKSHOPS > Info Days > FVG Pilot
> PP11_ARPAFVG_Act_2_3_event_2021sep25_Non_Siamo_Atlandide

<https://drive.google.com/drive/folders/1BJNpkQQTv-6GQvfrTtDmOP1ivivshniz>

Dubrovnik pilot

1st Info day

INTRODUCTION

Organization of info days throughout the project lifetime will be one of the essential activities for the involvement of key local actors within the pilot area. Relevant target groups will be identified also (citizens, journalists, institutional stakeholders).

Info days within the project AdriaClim are organized with purpose to inform and disseminate project activities, objectives and results, as well as to involve relevant target groups and general public. Events like this have a goal to raise awareness on sustainable and innovative technologies to improve the environmental quality conditions of the sea and coastal areas and transfer knowledge learnt from project collaboration.

The project visual material (poster, roll-up) is placed in a readily visible place during the event. It is important to indicate visibility of project logo and reference to the EU co-financing on agendas, list of participants, related publications, promotional materials and presentations.

Project gadgets have been distributed during or after the events for publicity purposes. There are two planned events planned during the project lifetime for the Dubrovnik-neretva county pilot area.

LIST OF PLANNED EVENTS ACCORDING TO APPLICATION FORM

D.2.3.1: 2 info-days organised in each of the pilot case-studies areas with the duration of half a day.

D.2.3.2: 1 Mid-Term Conference focused on climate change impacts affecting the cooperation area. Issue of Minutes of the event containing agenda, presentation, short description, list of participants and photos.

D.2.3.3: Final Conference. The event will be structured in 3 sessions: Presentation, Panel session, Networking followed by Q&A session. Issue of Minutes of the event containing agenda, presentation, short description, list of participants and photos.

2. ADRIACLIM INFO DAY

The Adriaclim info day was held at the Ston city close to the pilot area Slano bay and Neretva county at the address Trg Kralja Tomislava 1, 27th September 2021.

The presentation started with Miho Baće, the project team leader of Dubrovnik Neretva County area. He wished warm welcome to the participants and audience at the beginning. After that he continued with presentation. He presented the main facts of the Interreg Italy-Croatia program and connected it with the Adriaclim goals which are in line with the program goals.

Next speaker was Vicko Grkeš who is member of Dubrovnik-Neretva County team in AdriaClim project. He presented main activities, definition, budget and partners on the Adriaclim project. Additionally, plan activities on the pilot areas were mentioned, specifically pilot area; North-east Adriatic, pilot area Ravni Kotari, pilot area Slano bay. The equipments installed in each area was mentioned such as tide gauge and which parameters were measured. The main problem of each pilot area was presented and solutions.

Gordana Beg Paklar from the Institute of the oceanographies and fishery (PP7) presented the research in the Croatian pilot sites. She presented the pilot sites IOF is in charge. First pilot site is Kaštel bay in which they present research. They will examine micro food chain network and phytoplankton toxic flowering. They also have three stations in which they examine: temperature, salinity, sediment, microbiological parameters. In the Neretva estuary the new station will be installed and they will examine salinity, temperature and depth inside the river considering the different time periods.

Mr. Nenad Antolović presented the influence of the climate change on the South Adriatic animals. He presented the "BIOS"-Bimodal Oscilating System for the Adriatic-ianian region and impacts. The characteristics of the Mediterranean sea were described with influence on Adriatic sea. Biodiversity of the Adriatic sea was mentioned and climate changes from 1860s. Consequences

of the climate change were indicated, so new species as *Balistes capriscus* appeared. Also the jellyfish mass production happens as a consequence of climate change in Adriatic area. Toxic invasive species dangerous for humans were also mentioned. Authentic fish in Adriatic could completely extinct as a consequence of climate change impacts.

During the discussion Miho Baće asked Mr. Nenad regarding new species and how dangerous they actually are? They also mentioned blue crayfish which arrived from US to the Adriatic and spread as invasive species. They discussed the best way to control. One of the ways is hunting it, as it is a very good delicacy in US.

After the presentation the flowering plants important for bees were given to local population in order to promote the project activities. Pictures are visible in the attachment.

Light lunch was arranged for the project participants and attendants near the pilot area. Joint photo was made.

3. AGENDA

DNEVNI RED

Info dan

Interreg Italy – Croatia

ADRIACLIM

Općina Ston, Trg Kralja Tomislava 1

(2 kat, vijećnica)

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9:00 – 9:30	Registracija sudionika
9:30 – 9:40	Pozdravna riječ <i>Dubrovačko-neretvanska županija, Institut za oceanografiju i ribarstvo</i>

5

9:40 – 9:55	Uvodno predstavljanje projekta <i>Miho Baće, Dubrovačko-neretvanska županija</i>
9:55 – 10:10	Predstavljanje osnovnih aktivnosti projekta <i>Vicko Grkeš, Dubrovačko-neretvanska županija</i>
10:10-10:25	Istraživanja u hrvatskim pilot područjima Dr.sc. Gordana Beg Paklar, <i>Institut za oceanografiju i ribarstvo</i>
10:25 – 10:40	Utjecaj klimatskih promjena na živi svijet južnog Jadrana Doc.dr.sc. Nenad Antolović
10:40-11:10	Rasprava i zaključci
11:10-12:00	Podjela sadnica medonosnog bilja (Promotivna aktivnost projekta)
12:00-14:00	Radni ručak

4. PHOTOS







Split Dalmatia Pilot

Info day 1

AdriaClim Info Day “Voyage to Lilliput” organized by PI RERA SD and Institute for Oceanography and fisheries was held on 5 October ,2022 in Split University Library. The info day brought together the scientific and public sector in order to raise awareness about climate change.

At the beginning of the event, Maja Vukan, on behalf of RERA SD, introduced AdriaClim and gave an overview of implemented and planned activities. After the introductory presentation, Natalija Dunić, ocean physicist from the Institute for Oceanography and Fisheries (IOF), explained the meaning of global warming and its impact on the living world through a very interesting and engaging presentation. Stefanija Šestanović, scientific adviser at the IOF, presented her research “Small players, big roles: The impact of global warning on microbe process in the sea.” Mladen Šolić, professor from the University of Split and Head of the Microbiological laboratory at the IOF, explained how climate changes affect microbial food chain. After the lecture, he presented his new book "Voyage to Lilliput" (original title in Croatian "Put u Liliput"). This volume is a fourth one that addresses the climate change and explains how body size and temperature impact numerous features of the living world. It also poses questions, such as: Is it good to be big in size? Is global warming leading to smaller body sizes? Why does warmer sometimes mean better? How the contradictory effects of climate change on the living world can be explained?

The info day came to a close with an interesting discussion about making scientific research understandable to the wider public, as well as decision makers.

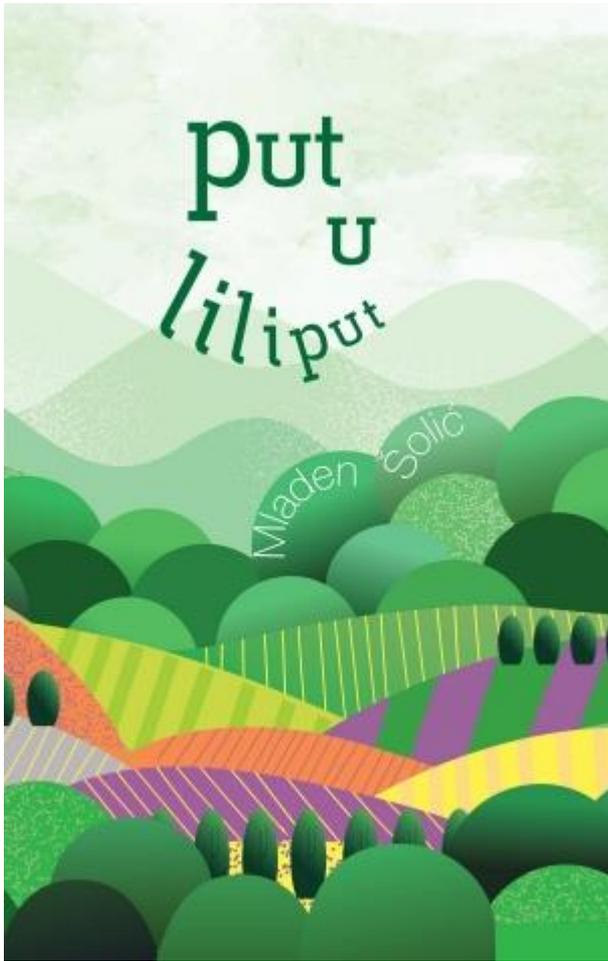
KLIMATSKE PROMJENE I ŽIVI SVIJET NA ZEMLJI

Promocija knjige „Put u Liliput“

05. listopada 2022.
Sveučilišna knjižnica Split
Ul. Ruđera Boškovića 31, Split
(Narančasta dvorana)
u 10 h

Program

Vrijeme	Opis
10:00-10:10	Registracija
10:10-10:20	AdriaClim Projekt
10:20-10:35	“Kako globalno zatopljenje utječe na Jadransko more?” <i>Natalija Dunić, Institut za oceanografiju i ribarstvo</i>
10:35-10:50	“Mali igrači, velike uloge: utjecaj globalnog zagrijavanja na mikrobne procese u moru” <i>Stefanija Šestanović, Institut za oceanografiju i ribarstvo</i>
10:50-11:10	“Utjecaj klimatskih promjena na mikrobnu hranidbenu mrežu” <i>Mladen Šolić, Institut za oceanografiju i ribarstvo</i>
11:10-11:25	Promocija knjige „Put u Liliput“ <i>Mladen Šolić, Institut za oceanografiju i ribarstvo</i>
11:25	Osvježenje uz kavu





Info day 2

AdriaClim Info Day "Je l' ti bistro" was organized by PI RERA S.D. and the Diving Ecological Club of Podstrana in cooperation with the Municipality of Podgora and Visit Podgora, Visit Igrane and TZM Živogošće.

The eco campaign started on Saturday at 9 am with a gathering of volunteer divers at the Riva in Podgora. After this, the participants were divided into teams and started cleaning the beaches and underwater areas of Podgora and Drašnica.

During the second day of eco-action 'Je l' ti bistro' on Sunday, April 30, cleaning was conducted on the beaches and under the water in Igrane and Ivogošće.

This weekend's ecological event attracted about 50 divers from different diving societies including : Underwater activities club Amfora Rab, Diving club Mostar, Eko diving group for the disabled Lukovac, Diving club Sarajevo Amphibians safe, Diving club Osijek, DVD Podgora and Podgorje utility company etc.

The divers were cheered on and accompanied by local volunteers who helped clean their own seabed.

The goal is to raise awareness of the local population and the general public about the importance of preserving the sea. This is one of the most valuable resources of our area.

Press releases :

<https://dalmatinskiportal.hr/energija-i-ekologija/fotovideo-ovaj-vikend-eko-akcija-ciscenja-plaza/167647>

Agenda

Datum	Vrijeme	Lokacija	Opis
29.04.2023.	09:00	Riva Podgora	gathering of divers and division into teams
29.04.2023.	09:30-13:00	Podgora	implementation of the environmental action of underwater cleaning
30.04.2023	09:00	Riva Podgora	gathering of divers and division into teams
30.04.2023.	09:30 –13:00	Igrane, Živogošće	implementation of the environmental action of underwater cleaning
30.04.2023.	16 :00	Podgora	distribution of certificates of appreciation

Photos











Puglia region

1st Info day

Introduction

Puglia Region has scheduled a series of meetings useful to involve local actors and disseminate the results of the Adriaclim project.

Puglia Region has planned a series of workshops in order to define moments of discussion on the needs of operators regarding the resilient management of activities in the scenario conditioned by the ongoing climate changes and the potential offered by observation systems on the state of the sea (in situ and remotely) and their integration with forecasting modeling tools for operational applications for various purposes.

The reflections arising from the Adriaclim research project, of which Puglia Region is a partner and for which the University of Bari and the Polytechnic of Bari are scientific consultants.

Of great interest to the scientific community and beyond, the Adriaclim project makes it possible to promote a sustainable vision of the environmental resource by adopting resilient management systems and policies with the sharing of observation data which are very useful also for the various applications of environmental engineering.

LIST OF EVENTS PLANNED ACCORDING TO THE REGISTRATION FORM

D.2.3.1: organized information day, meeting with institutional stakeholders.

D.2.3.2: 1 Mid-term conference (April 2023) and meeting with local stakeholders focusing on the impacts of climate change affecting the cooperation area.

D.2.3.3: Final conference (June 2023). The event will be structured in order to communicate the results of the Adriaclim project to the local, national and international scientific community.

Info day title - description

The meeting organized by the Environment Department of Puglia Region on 10.22.2022 aims at taking stock of the state of the art of climate action in relation to the Adriaclim project. The aim of the workshop was to bring together the different institutional stakeholders working on climate

change to begin a discussion starting from the initiatives carried out by Puglia Region, which is currently fully engaged in the fight against climate change.

The double regionally directed vision was presented. On the one hand, the drafting of the Regional Strategy for Adaptation to Climate Change (SRACC); on the other, the role assumed by Puglia Region as Territorial Coordinator of the European initiative of the Covenant of Mayors.

The works were opened by Serena Scorrano, an official of the Department of Environment, Landscape and Urban Quality, who retraced the various stages that have characterized the work of the regional administration since 2018: from April 2018, when the President of Puglia Region signed the declaration of commitment of the territorial coordinators of the Covenant of Mayors, to the launch in 2020 of the Regional Strategy for Adaptation to Climate Change, up to the recent communication and dissemination activities of regional climate policies and technical assistance services for the coordination of Covenant of Mayors with a dedicated technical structure.

The workshop continued with a technical session dedicated to the results achieved within the European project AdriaClim, held by the CMCC - Euro-Mediterranean Center on Climate Change, and by the interventions on climate change scenarios in the Mediterranean held by the Polytechnic of Bari and by the University of Bari.

The meeting ended with institutional greetings from the Councilor for the Environment of the Puglia Region, avv. Anna Grazia Maraschio.

Agenda

Interreg Italy – Croatia

ADRIACLIM

Fiera del Levante – Bari 19.10.2022

- 3.00 pm

Introduction of the works by the regional directors

Paolo Garofoli, Department of Environment, Landscape and Urban Quality

Gianna Elisa Berlingiero, Economic Development Department

- 3.10 pm

The vision of Puglia Region for the Climate, Serena Scorrano, officer of the Department of Environment, Landscape and Urban Quality

- 3.20 pm

The construction of the regional strategy for adaptation to climate change, Giuseppe Maffei, Luisa Geronomi, Terraria Ltd

- 3.40 pm

Territorial coordination of the Covenant of Mayors in Puglia, Cristina Belloni, Polisemia srl

- 16.00

New climate scenarios and indicators for the Puglia Region, Giovanni Coppini, senior scientist, director of the Forecasting division marine and applications of the CMCC - Euro-Mediterranean Center on Climate Change

- 4.10 pm

Some considerations on the effects of climate change in the Mediterranean context, Umberto Fratino, professor Department of Civil, Environmental, Land, Construction and Chemistry Engineering, Polytechnic of Bari

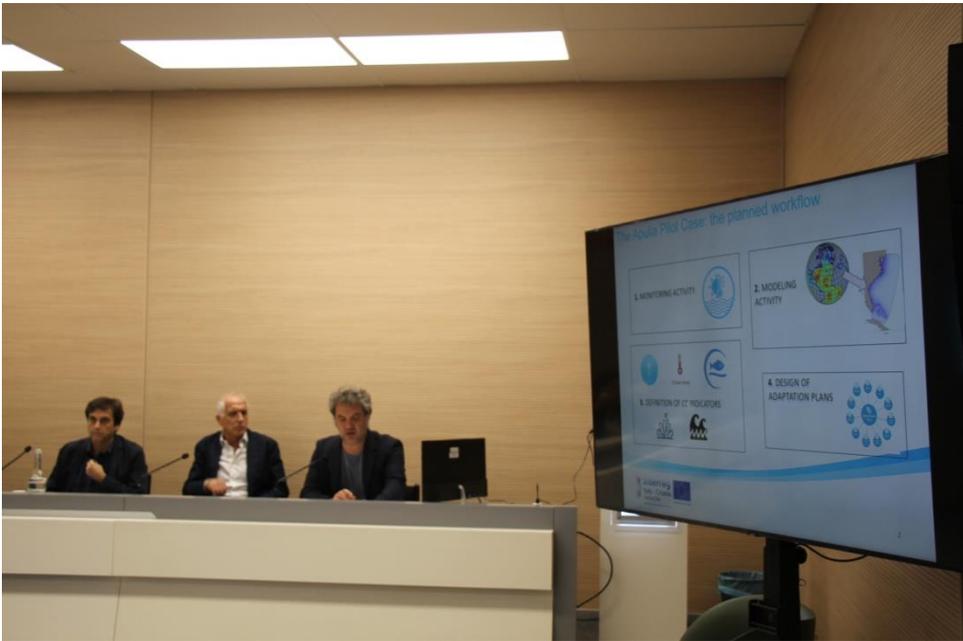
- 4.20 pm

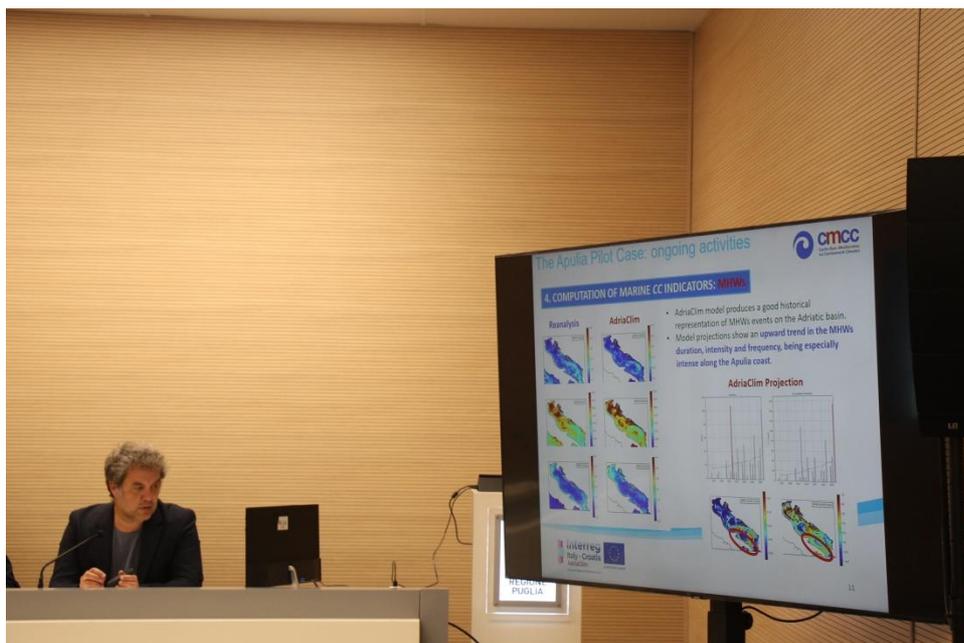
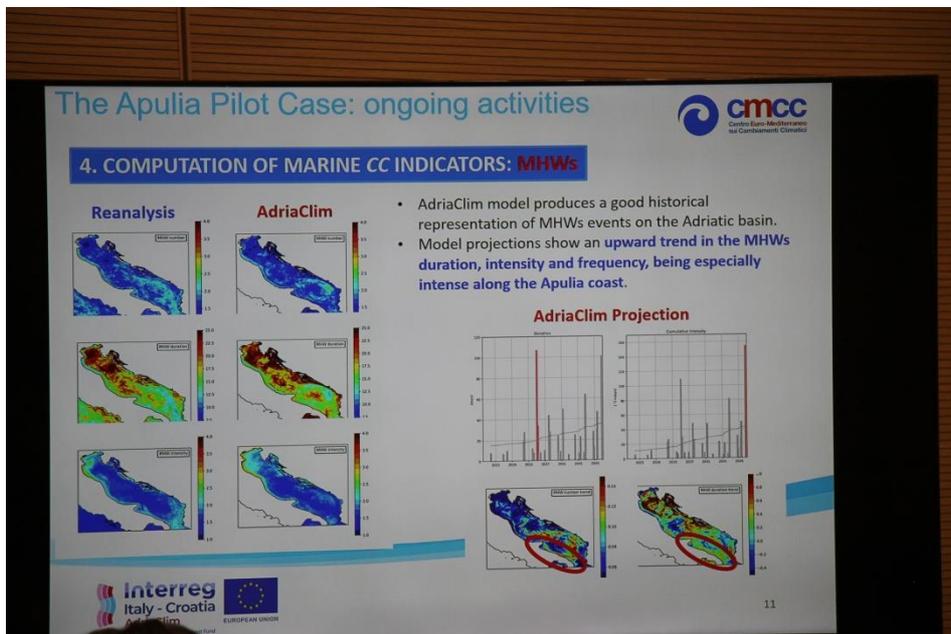
First indications on the criteria for drafting the climate adaptation and mitigation plan of the AdriaClim project Francesco Gentile, professor Department of Agro-Environmental and Territorial Sciences University of Bari A. Moro

- Followed by scheduled speeches by representatives of ENEA, Civil Protection, Regional Agencies

Photos











2nd Info day

Introduzione

With the Council Resolution n.1546 of 09/17/2020, the Puglia Region approved the project "AdriaClim - Tools for information, monitoring and management of climate change for adaptation strategies in the Adriatic coastal areas", with the aim to implement the conditional adaptation plan referring to issues focused on marine and coastal areas, economic systems and related ecosystem services. On the merits, in support of the specific project activities, it is essential to start a discussion with organizations, institutions and trade associations engaged in various capacities on the issues of mitigation and adaptation to climate change, at the same time promoting a debate with the network of stakeholders - operating in the "tourism", "aquaculture" and "coastal erosion" sectors - to ensure their involvement in the various initiatives.

Description

The impact of climate change on aquaculture within the Adriaclim Project

Gianfranco D'Onghia, Roberto Carlucci, Caterina Longo. Dipartimento di Bioscienze, Biotecnologie e Ambiente, Università degli Studi di Bari Aldo Moro

Climate change can affect the structure and functioning of ecosystems that support breeding activities, production cycles, infrastructures, the physiology of organisms produced or harvested in nature. Furthermore, the assessment of the impacts of climate change is made complex by the diversification of production systems, the technologies used, the species farmed, the geographical location, the environmental characteristics of the territory and the combination of various impact factors, including those due to non-indigenous species.

Although there is still no specific knowledge and evidence on the vulnerability of aquaculture activities to climate change, attention has been growing in recent years, in particular for the effects that this change can have on shellfish production. In fact, the "heat waves", which are now occurring more frequently and above all in the summer period, cause serious losses for shellfish farming.

In the new Strategic Guidelines for EU aquaculture (NLGSA), strategic points include: supporting the development of adaptation strategies to climate change; support the development of new freshwater and marine aquaculture methods, especially those with low environmental impact, such as Integrated Multi-trophic Aquaculture (IMTA). IMTA is a practice that combines the farming of fed species with that of extracted species and can offer new opportunities for traditional mariculture, helping to mitigate the impacts of climate change.

The impact of climate change on coastal erosion within the Adriaclim Project

Mariafrancesca Bruno, Umberto Fratino. Dipartimento di Ingegneria Civile, Ambientale, del Territorio, Edile e di Chimica, Politecnico di Bari

Among the effects of climate change, the rise in mean sea level is the one that will have the greatest repercussions on the coastal strip. The studies aimed at evaluating the climatic impacts on the coast have, in fact, highlighted that many coastal areas will be subject to erosion and flooding due to marine intrusion due to sea level rise.

In the Adriaclim project, the research group of the Polytechnic of Bari proceeded with the mapping and characterization of the Adriatic coastal strip and analyzed the past and recent evolutionary trend. The analysis showed that coastal erosion occurs on almost 100 km of the Adriatic coast with significant average annual retreat rates. From the projections on the evolutionary trend in the medium term, with the different emission scenarios, a situation of widespread retreat of the coastline is expected with a progressive reduction in the depth of the beaches.

The adaptation actions that will be undertaken in the near future will necessarily have to satisfy the need to preserve the landscape, naturalistic and environmental value that characterizes the regional coast of Puglia.

The impact of climate change on tourism within the Adriaclim Project

Francesco Gentile, Miriam Chiarulli, Annunziata Fiore, Giuseppe Parete. Dipartimento di Scienze del Suolo, della Pianta e degli Alimenti, Università degli Studi di Bari Aldo Moro

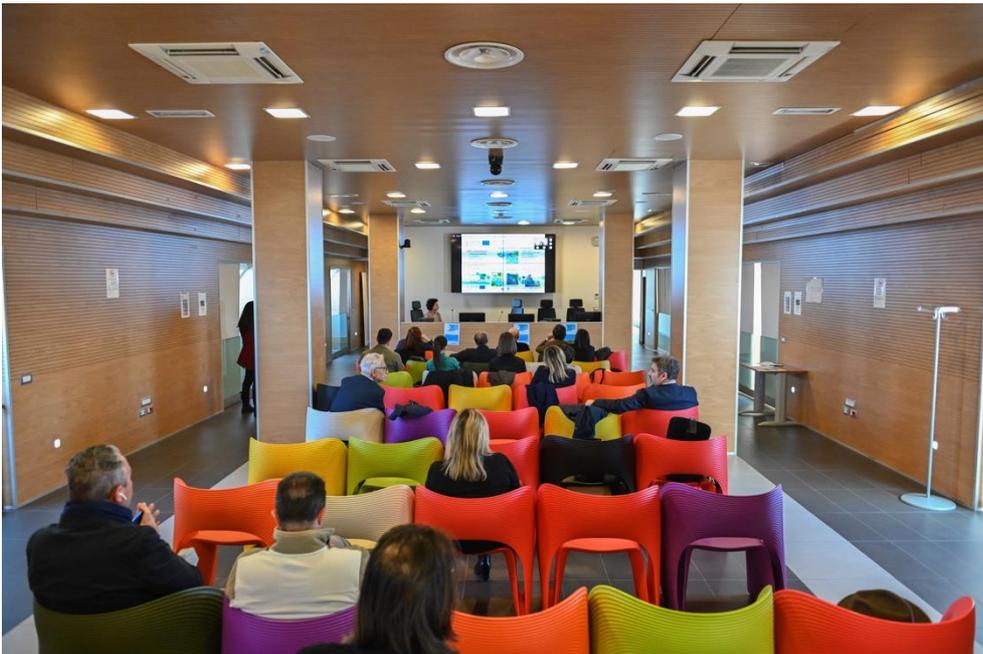
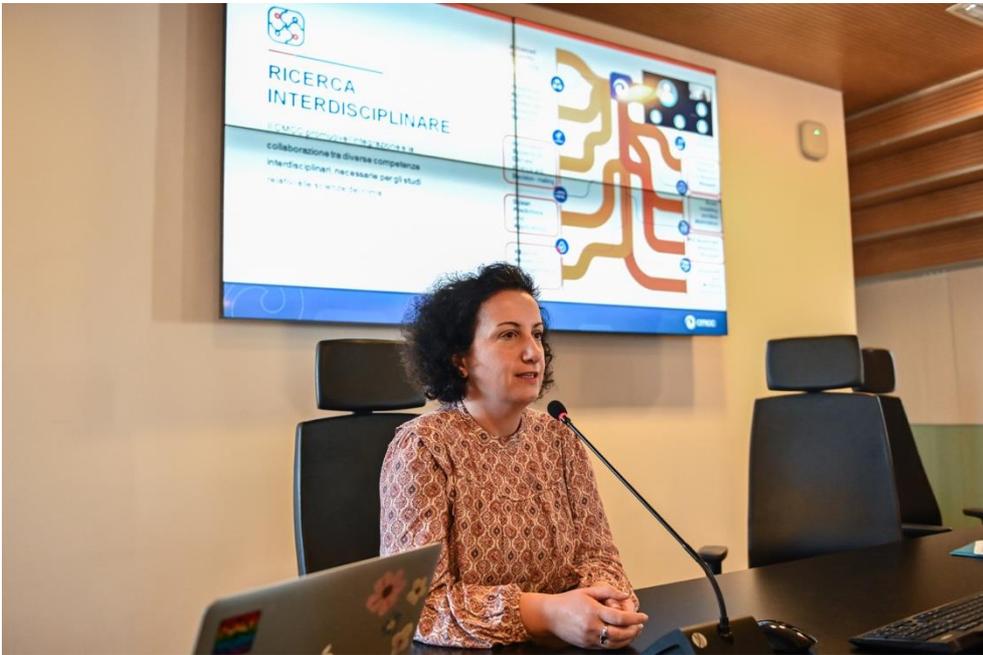
From the analyzes conducted on the effects of climate change on tourism, two types of impacts can be distinguished: direct and indirect. The direct impacts cause changes in the tourist trend, typical of a tourist destination. Indirect impacts act by inducing variations in the attractiveness of the tourist destination, consequently influencing tourist arrivals and presences.

In a scenario of climate change that sees the Apulian climate warmer than today, especially during the summer season, it is possible that the milder temperatures could benefit tourism in winter, spring and autumn. Conversely, the increase in maximum temperatures in summer could lead to possible decreases in tourist numbers, especially international ones. Furthermore, the increase in temperatures could benefit competitive tourist destinations in Puglia, negatively impacting regional tourism demand.

It is possible that climate change will generate impacts on other tourism-related sectors of the territory. These impacts could affect the attractiveness of tourist destinations on the Apulian Adriatic coast. In this regard, the investigations carried out have highlighted some indirect impacts, among which we can consider the increase in forest fires in tourist areas, the increase in alien and invasive species in terrestrial and marine tourist fruition areas, thermal stress and risks to the health of tourists and operators in the sector, the decrease in the availability of domestic water for the tourism industry and the increase in energy consumption, damage from extreme climatic events to infrastructures and accommodation facilities, coastal erosion with consequent reduced availability of beaches. The adaptation actions must be consequent to the impacts analyzed and synergistic with respect to the fields of action identified.

Photos









Molise Region

1st Info Day

INTRODUCTION

The organization of Info sessions during project lifetime is one of the most important activities to disseminate and promote AdriaClim project. Thanks to the involvement of key local stakeholders within the pilot area, Info days are organized with the purpose to inform and disseminate project activities, objectives and results, as well as to involve relevant target groups and general public.

Info Days aim at raising awareness on sustainable and innovative technologies to improve the environmental quality conditions of sea and coastal Adriatic areas and transfer knowledge learnt from project collaboration. Info Days also help to better understand the reasons for which a project is implemented in a specific area and its benefits to the whole population of that area. Info Days are important to share Best Practices implemented, currently implementing or ready to be implemented at local level, to inform and kept informed local stakeholders and seek support and suggestions from them.

The first Info Day organized by Molise Region was held on the 25th March 2022. The event was held online due to the persistent and uncertain pandemic situation of COVID 19 during that period.

The project visual material (online poster) and an official invitation was sent to the key local stakeholders, local authorities, National Departments, all the Municipalities of Molise Region, volunteer organisations, local national park etc. Project logo and reference to the INTERREG program was placed on the agenda, promotional materials and presentations.

There are two important events planned during the project lifetime for the Molise pilot area: the first Info Day organized on 25th March 2022 and the final Info Day that will be organized at the end of the project to present the AdriaClim project results and outcomes.

ADRIACLIM INFO DAY

The AdriaClim Info Day titled “Proteggi la costa, adattati al cambiamento climatico!” was held online on the 25th March 2022.

The event was moderated by the AdriaClim Project Manager for the Molise Regione, Ms. Maria Limongelli. She wished warm welcome to the participants and the audience, making a very brief presentation of AdriaClim project and introducing the event speakers. She also motivated the reason why the event was held online due to the persistent and uncertain pandemic situation of COVID 19 during that period. Hoping that the Info Day would be the only online event organized, she introduced the first speaker.

An introduction of the project was made by Antonio Cardillo from the Civil Protection Service and technical manager for the AdriaClim project. He presented main information about the project, the general and specific objectives, the partners, the target group, the budget, the various WPs and related activities, the planned activities on the pilot areas of the region. Thanks to the project he also showed the equipment installed at the port of Termoli, the tide gauge station, the wavemeter, the multi-parameter probe and the benefits that such equipment will bring to climate and monitoring system of the region.

Next speaker was Dr. Antonio Cuculo, currently the Director of the Regional Phytosanitary Service, Protection and Enhancement of Mountains and Forests Biodiversity and Sustainable Development for the Molise Region. Dr. Cuculo also plays the role of Regional Environmental Authority. He presented the state of the art of the regional strategy on sustainable development of which he is coordinator. During his speech, he underlined the importance to talk about strategies and synergies between the various actors involved in sustainable development at local and national level.

It followed an intervention of Dr. Michele Innangi from the University of Molise. Dr. Innangi received his PhD in Applied Biology with a thesis focused on soil ecology in Mediterranean beech forests. Since 2022, he has been Researcher in Ecology at the Department of Biosciences and Territory of the University of Molise. His research activity is mainly focused on issues of soil ecology and plant ecology in agroecosystems, forest ecosystems and marine-coastal ecosystems. His scientific production includes 35 publications in international scientific journals and numerous participations in national and international congresses. During his speech Dr. Michele Innangi from the University of Molise spoke about the CASCADE project and objectives and results of coastal ecosystem in central Adriatic area.

Due to last minute institutional commitments, unfortunately it was not possible to hear the interventions and feedback of the Mayors of the Municipalities involved in the pilot areas, namely the municipalities of Termoli, Campomatino and Montenero di Bisaccia.

AGENDA



European Regional Development Fund
www.it2y-croatia.eu/adriaclim

INFO 
"day"

25 marzo
2022
Proteggi la costa,
adattati al cambiamento
climatico!

10:30 APERTURA INFO DAY
PROGETTO ADRIACLIM
Apertura e saluti istituzionali

10:45 Introduzione al Progetto Adriacim
Antonio Cardillo, Protezione Civile Molise

11:00 Stato di attuazione della Strategia regionale sullo Sviluppo Sostenibile e iniziative sull'adattamento al cambiamento climatico - Mario Cuculo, Servizio Fitosanitario Regionale, Tutela e Valorizzazione della Montagna e delle foreste Biodiversità e Sviluppo Sostenibile - Autorità Ambientale Regionale

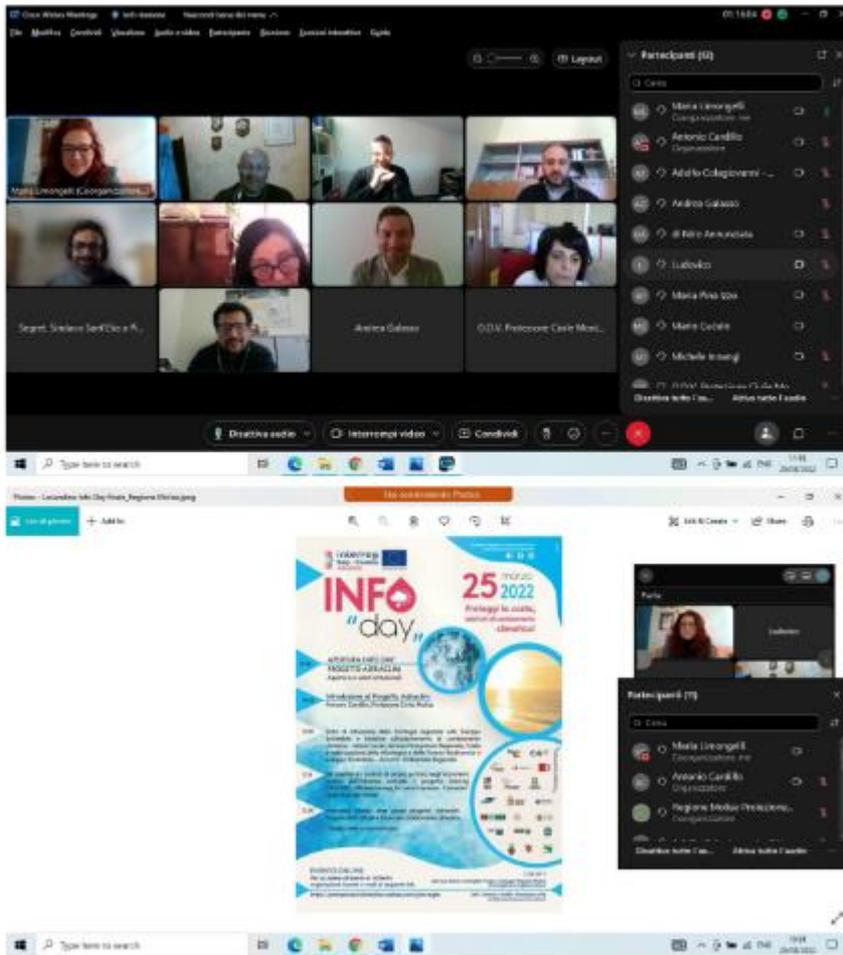
11:15 Gli obiettivi e i risultati di ampio portata negli ecosistemi costieri dell'Adriatico centrale: il progetto Interreg CASCADE - Michele Innangi, M. Laura Carrara - Università degli Studi del Molise

12:00 Intervento Sindaci onse pilota progetto Adriacim
Progettazioni attuali e future sul cambiamento climatico
I Sindaci della costa molisana

EVENTO ONLINE
Per accedere all'evento e' richiesta registrazione tramite e-mail al seguente link:
<https://protezionecivilemolise.webex.com/join/regia>

CONTATTI
Dott.ssa Maria Limongelli Project manager Regione Molise
limongelli@regione.molise.it
Dott. Antonio Cardillo Protezione civile
cardillo@protezionecivile.molise.it

4. PHOTOS



2nd Info day

INTRODUCTION

The organization of Info sessions during project lifetime is one of the main activities to promote AdriaClim objectives and purposes. They are mainly organized to inform local stakeholders about project activities and results achieved trying to involve also relevant project target group and the general public.

Specifically, AdriaClim Info Days aim at raising awareness about climate change topic, its causes and consequences and the use of sustainable and innovative technologies to improve the quality conditions of Adriatic coastal area through transfer knowledge thanks to project collaboration among project partners. They also can be considered an important tool to better understand why a project is implemented in a determined area and the possible benefits that the population of that area can gain. Info Days can represent important moments to share Best Practices to be implemented at local level, or to present an important local result achieved and to keep informed stakeholders looking for feedback of possible suggestion from them.

As already specified in the first AdriaClim Info Day report presented last September 2022, Molise Region organized its first Info Day that was held on the 25th March 2022 on online modality, due to COVID restriction still persistent at the time.

The project visual material (online poster) and an official invitation was sent to the key local stakeholders, local authorities, National Departments, all the Municipalities of Molise Region, volunteer organisations, local national park etc. Project logo and reference to the INTERREG program was placed on the agenda, promotional materials and presentations.

This report will introduce and explain the second and Final Info Day that the Region organized on the 8th June 2023, with the aim to provide to the local stakeholders what were the objectives and results achieved at the end of the project, together with an explanation of the activities implemented.

Official invitation with the online poster was sent from the Civil Protection Service Department, as the Department officially responsible to implement the project, to the key local stakeholders, local authorities, all the Municipalities of Molise Region, volunteer organisations, local national parks etc. Project logo and reference to the INTERREG program was placed on the agenda, promotional materials and presentations.

DESCRIPTION

The AdriaClim Final Info Day was held on the 8th June 2023 at Lido Alcione, a seaside beach resort located in the Municipality of Termoli.

The event started with a welcome keynote speech made by Antonio Cardillo as a representative of the Civil Protection Service who replaced Dr. Manuele Brasiello, the Director of the Department entitled to implement AdriaClim project, who couldn't be present due to last minute commitment'. Dr. Cardillo warmly welcomed the participants of the event, he apologised for the last minute urgency of Dr. Brasiello and thanked the press and the speakers to be present. He passed the floor to Maria Limongelli, Project Manager of AdriaClim project for Molise Region. Ms. Limongelli thanked the participants for being present to the event and started talking about the AdriaClim project, giving information about project data, its objectives, its expected results, an overview of the Work Packages of the project, its activities and results achieved. In particular, Ms. Limongelli focused its presentation about what was done during the three years and a half project in terms of activities, the set up of the Working group with the Civil Protection Service, the European Territorial Cooperation and the experts selected for the elaboration of the Regional Guidelines for climate change adaptation on coastal ecosystem. She explained the importance to engage and promote the project, through the organization of several dissemination events and the involvement of different department within Molise Region and the Municipalities of the Molise coast. Indeed, they participated in the three thematic workshops part of the participatory process, an important activity that led to the development of the Regional Guidelines for climate change adaptation on coastal ecosystem, one of the main local project results.

After Ms. Limongelli, Antonio Cardillo took again the floor, this time making its own presentation about the AdriaClim monitoring system. He spoke about the idro-weather-sea station who was installed at the Port of Termoli last November 2021. The installation of an observing station was another important result achieved thanks to the AdriaClim project as this type of equipment allowsthe acquisition, analysis and transmission of data by connecting the meteo-marine station with the Civil Protection server in order to acquire in real time and with secure and certified protocols the information directly from the sensors. Another important step reached thank to the project and that was presented to the stakeholders and the press invited to the event. Next speakers were the experts selected for the elaboration of the Regional Guidelines for climate change adaptation on coastal ecosystem, Drs. Ludovico Frate and Maria Carla di Francesco. Their presentation focused on the main project result achieved within the project, the regional guidelines for climate change adaptation on coastal development. They made an overview about the guideline by explaining to the public what is an adaptation plan and what does it mean adaptation to climate change. They also spoke about the national legislation about adaptation on climate change and what Molise Region did so far in this subject. They presented what are the expected impacts on Molise coastal area describing vulnerability, possible risks and hazards, mentioning some examples of adaptation to tackle the climate change phenomenon. They also described the Molise coast which was also the pilot area of the project, by presenting some indicators that have been taken into account when analyzing the area. They showed the expected impact for the area taking as example the natural and built environment and the cultural, social and economic sphere. They presented the adaptation actions identified in the guidelines and what are the main steps that from the guidelines go towards the adaptation plan, including a more involvement of the Region, the identification of the financial resources to sustain the adaptation actions and a closer monitoring on their efficiency. After the speaker presentations it was given a little space for questions and feedback. Dr. Cardillo thanked the colleagues who made the event possible and the speakers who were able to share knowledge and information related to the climate change topic. He also acknowledged the public who was present. After the event a light lunch was offered to the participants.

3. AGENDA



ADRIA CLIM – FINAL INFO DAY

- 10:00-10:30 - **Registrazione**
- 10:30-10:45 **Welcome - Keynote speeches**
 - Manuela Branella - Direttore IV Dipartimento - Regione Molise - Governo del Territorio, mobilità e risorse naturali
- 10:45-11:00 - **Il progetto AdriaClim**
 - Maria Limongelli - Project Manager
- 11:00-11:15 **AdriaClim monitoring system**
 - Antonio Cardillo - Protezione Civile Regione Molise
- 11:15-11:45 **Regional guidelines for Climate Change adaptation on coastal ecosystem**
 - Lutzovic Prate e Maria Carla de Francesco - Esperti redazione linee guida
- 11:45-12:30 **Open discussion**
 - Light lunch (prenotazione obbligatoria al seguente [link](#) entro il 01/06/2023)

8 GIUGNO 2023

LIDO ALCIONE

Via Amerigo
Vespucci s.n.c.
Termoli (CB)

PROJECT PARTNERS



CONTACT

cardillo@protezionecivile.molise.it
mlimongelli@idregione.molise.it

FOLLOW US



www.italy-croatia.eu/italclim

4. PHOTOS





Marche Region

1st Info Day

Introduction

The regional pilot site, which is the whole Marche Region coastline, has been analyzed in relation to its capability to face the events related to climate change. The analysis of how local coastline interacts and responds to climate change is strongly related to the whole activity aimed at the definition of the Regional Climate Change Adaptation Plan for Marche Region. In fact, the coastal environment represents one of the main elements which have to be taken into account in order to understand the deep and intersectoral effects of climate change to the regional area. In fact, due to its geographical location, the entire economy as well as society of the Marche Region are deeply connected and somehow dependent on the coastal area and that is one of the reasons why the coastal area focus has a great role within the Regional Climate Change Adaptation Plan of Marche Region. The Plan has been adopted by the Regional Council on March 2023 and then the public consultations were initiated. During the info day the Plan has been described through its relations with different sectors.

Info day title – “Piano di adattamento climatico per la Regione Marche”

On March 21, 2023, (3-6 PM) the Marche Region, with the University sectors and the research centers that supported the regional activity, organized the info day “Climate Change Adaptation Plan for Marche Region” in Ancona at the Mole Vanvitelliana. It was a hybrid event, with some remote participants and others in presence, designed in order to ensure highest participation and involvement. The main goals of the event were the presentation of the Plan and of all the activities and the analysis that brought to the Plan definition and the description of the AdriaClim role in this context. In particular, the first meeting section described the starting point of the Plan, which is the Regional Strategy of Sustainable Development, approved in December 2021 and which has among its objectives and strategic actions the definition of the Plan itself. Another important aspect of the first session was the definition of the collaborative structure behind the Plan, which involves also, aside from the Region and the AdriaClim Project, the Italian Ministry of Environment and Food Security (Ministero dell’Ambiente e della Sicurezza Alimentare – MASE). Then, within the core section of the meeting, the climate change context, impacts and risks have been described, with a specific focus on the climate framework for Marche Region and its main factors, such as average temperature or rainfall amount. The description of the regional future climate framework represented an important issue, which was described and is directly connected to the subsequent impacts and risks analysis,

based on the short- and long-term consequences of climate change for the main social and ecological sectors, such as the water resources.

The final part of the meeting dealt with the issue related to the Plan public consultations: a specific questionnaire has been developed in order to guide the public activity in making comments and observations to the Plan. These comments and observations, during the following weeks, have been evaluated by the regional competent Sector and then, where appropriate, included within the final version of the Plan.



TAVOLO DI CONFRONTO

Piano di adattamento climatico per la Regione Marche

Martedì 21 marzo 2023, ore 15.00 - 18.00
Mole Vanvitelliana – Sala Boxe – Ancona
Banchina Giovanni da Chio 28, Ancona



2nd Info day

Introduction

The regional pilot site, which is the whole Marche Region coastline, has been analyzed in relation to its capability to face the events related to climate change. During the info day, speakers focused on the necessity to consider climate change in the definition of planning activities at all levels.

In particular, the issue of climate change and its relation with the coastal area, which represent the core points of the AdriaClim implementation within the Marche Region, have been analyzed during the info day under different aspects. In doing so, the Regional Climate Change Adaptation Plan represented the starting point of the discussion.

Info day title – “Pianificare l’adattamento climatico. Monitoraggio e tutela del territorio tra adattamento ed innovazione”

The meeting was a section of the event organized by the Marche Region on June 27-28, 2023, in Ancona at the Mole Vanvitelliana, in order to explore the role of territorial monitoring and preservation activities in the context of adaptation and innovation, but also the role of European projects in the local territorial managing. The AdriaClim section of the event, was held on June 28, 2023, (9.30 AM – 1 PM) and had the contribution of different experts.

In particular, the first part of the meeting introduced the AdriaClim project and its effect on the definition of local climate change adaptation plans, which, aside from the global effects, could have an important role for what concerns the territorial planning. The AdriaClim monitoring system plays a crucial part in the achievement of the main project’s goals, since it is pivotal for plans and models development, as well as for the Italy/Croatia cooperation implementation and the improvement.

The central role of local data and indicators was also part of the discussion: in order to develop local adaptation systems, Regions and authorities need specific local information, since, often, national or global ones are too general. Indicators also represent the starting point of the monitoring system

definition and, among the indicators explored within the AdriaClim context, speakers focused on some of them, such as sea level rise, dense water volume or sea surface salinity.

Another important adaptation element that has been explored during the info day was the one related to the connection between climate change and local communities: the definition of governance models for adaptation and resilience represents an important tool which public authorities should consider in order to implement their plans.

The final part of the meeting dealt with the important role of AdriaClim in the definition of the Regional Climate Change Adaptation Plan for Marche Region, with a specific focus on the analysis elaborated with one of the regional Universities, Università Politecnica della Marche, in exploring the coastal system in climate change context. In this section, speakers also explore the role of environmental evaluations, to which the Plan is subjected, in the climate change adaptation integration. In particular, the Strategic Environmental Assessment of the Regional Plan plays a crucial role for what concerns: coherence analysis, alternatives evaluation, public participation but also monitoring systems definition and implementation.



IL CONTRIBUTO DI INTERREG PER LO SVILUPPO AMBIENTALE DELLE MARCHE

Interreg 



09:15 WELCOME COFFEE E REGISTRAZIONE DEI PARTECIPANTI

09.45 SALUTI ISTITUZIONALI
ASSESSORE AMBIENTE E PROTEZIONE CIVILE
RETTORE UNIVERSITA' POLITECNICA DELLE MARCHE

ANCONA 27 GIUGNO 2023 ore 9.45
SALA POLVERI MOLE VANVITELLIANA

10:15 INTRODUZIONE
Nardo Goffi DIPARTIMENTO INFRASTRUTTURE, TERRITORIO - REGIONE MARCHE

10.30 LE NUOVE OPPORTUNITA' INTERREG PER L'AMBIENTE
Marin Miletić Joint Secretariat INTERREG ITALY-CROATIA
Natalino Barbizzi INTERREG IPA ADRION NATIONAL CONTACT POINT

11.00 PIANIFICAZIONE PER IL CAMBIAMENTO CLIMATICO E LO SPAZIO MARITTIMO
Francesco Musco - IUAV

11.20 MODELLI CLIMATICI NELL'AREA ADRIATICO IONICA
Giulia Galluccio CMCC Centro EUROMEDITERRANEO per i CAMBIAMENTI CLIMATICI

11.40 AZIONI INNOVATIVE PER MITIGARE GLI EVENTI ESTREMI
Marina Morando - FONDAZIONE CIMA

12.00 MODELLI DI GESTIONE INTEGRATA DI DIFESA DELLA COSTA
Enzo Pranzini Università degli Studi di Firenze

12.20 LA GOVERNANCE PER LA RIDUZIONE DEI RISCHI
Giulio Fancello - DIPARTIMENTO NAZIONALE PROTEZIONE CIVILE

12.30 LINEE DI AZIONE PER LE MARCHE NELLA PROGRAMMAZIONE CTE 2021-2027
Stefania Bussoletti Dirigente COOPERAZIONE TERRITORIALE REGIONE MARCHE

12.45 Domande e Risposte

13.00 LIGHT LUNCH

La partecipazione al seminario della mattina del 27 sarà valida per il riconoscimento di 2 CFP da parte dell'Ordine degli Ingegneri e dell'Ordine degli Architetti



ORDINE
DEGLI INGEGNERI
DELLA PROVINCIA
DI ANCONA



ORDINE PROFESSIONI PASTORALI
DELLA PROVINCIA DI ANCONA

Zadar Pilot

1st Info day

13.11.22 | 22.04.2021 **NOVOSTI**

PREDSTAVLJEN PRVI AQUAWEB



Tijek radova na postavljanju prvog AQUAWEB-a u Hrvatskoj predstavljen je u četvrtak 22. travnja 2021. godine na Sveučilišnom poljoprivrednom dobitu "Boštica".

Povodom Dana Planeta Zemlje u sklopu projekta AdriaClim, Agencija za razvoj zadarske županije ZADRA NOVA javnosti je predstavila inovativno rješenje za sekupljanje vode iz vlage u zraku AQUAWEB.

Radove su obišli ravnateljica Agencije za razvoj Zadarske županije ZADRA NOVA Marina Dujmović Vuković, župan Zadarske županije Božidar Longin te predstavnici Sveučilišta u Zadru i medija.

Projekti financirani sredstvima Europske unije slist su kojim pokušavamo smanjiti posljedice klimatskih promjena. Jedan od takvih projekata je i AdriaClim kojem je cilj razvoj i poboljšanje kvalitete postojećih sustava praćenja klimatskih promjena kroz poticanje razvoja strateških dokumenata i planova prilagodbe aktualnim promjenama. Uz danas predstavljeni sustav inovativni sustav AQUAWEB, kroz

2nd Info day

The Zadar County Development Agency ZADRA NOVA, as part of the AdriaClim project, held the second info day on Friday, October 29, 2021 at the University Farm Baštica and presented to the public an innovative solution for collecting water- Aquaweb.

Director of the ZADRA NOVA Agency, Marina Dujmović Vuković said that the projects funded by the European Union are a tool by which we try to reduce the consequences of climate change. She added that the Funds provided by the AdriaClim project, in addition to the innovative Aquaweb system that was presented on that day, enabled the purchase of tank truck that will provide better water supply to rural areas that have a shortage of drinking water in summer.

Aquaweb on Baštica was the first to be built in Zadar County, but also in Croatia. This innovative system collects moisture from the air and allows irrigation in dry periods when water sources dry up.

Ms. Anamarija Frankić explained the design of the Aquaweb. It was designed by a student team in America for which they received an award in 2017 for a solution to collect water from the air, but it was for urban areas where people are increasingly engaged in small-scale agriculture, vegetable growing or green gardens. They tried to find a way to have water on the big building now. It was an initiative on how to provide urban areas with local water supply and find materials that would help buildings, gardens and roofs to absorb water from the air and use it in some way.

Ms. Frankić reminded everyone that we must understand that there is no single solution to the problem, but we must find solutions that are multifunctional.

Details of the project were presented by the project manager at the ZADRA NOVA Agency, Ph.D. Martina Vukašina. She noted that the main goal of the project is to develop innovative thinking models that will be implemented in plans and strategic documents for adaptation to climate change. The pilot location in Baštica has a focus on sustainable water resources management, so the project also procures a tanker truck for the distribution of drinking water in rural areas of the county.

After all the speeches and lectures, the participants visited the innovative solution Aquaweb, where Ms. Frankić demonstrated and presented its functionality.

ZADRA NOVA also organized a set of workshops and lectures on biomimicrian irrigation solutions. This pilot project is the nucleus on which new project ideas will be developed in the service of implementing such solutions in agriculture.



2. INFO DAN NA BAŠTICI 29.10.2021.
Sveučilišno dobro Baštica

09.15-9.30	Okupljanje sudionika i registracija
09.30-9.45	Uvodno obraćanja <ul style="list-style-type: none"> • Marina Dujmović Vuković, ravnateljica Agencije za razvoj Zadarske županije ZADRA NOVA
09.45-10.30	Predstavljanje projekta i projektnih aktivnosti ADRIACLIM <ul style="list-style-type: none"> • Martina Vukašina, voditeljica projekta AdriaClim
10:30-11:15	Utjecaji klimatskih promjena <ul style="list-style-type: none"> • Doc.dr.sc. Anamarija Frankić
11:15-11:30	Rasprava i zaključci
11.30 – 12:00	Umrežavanje uz osvježanje
12:00- 14:00	Obilazak i prezentacija postavljenog inovativnog rješenja za sakupljanje vode iz vlage u zraku "AQUAWEB"

