

External Events

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Specific objective 2.2 – Increase the safety of the Programme area from natural and man-made disaster

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Introduction

The organisation and participation of the project partners in public events was a crucial activity in the STREAM communication strategy to raise awareness about flood risks and inform about project results and achievements. STREAM partners were committed participate in external events dealing with the topics touched by the project to present the results and achieve a greater visibility.

By the end of the project, partners participated in 29 international thematic events, in the Europe and outside Europe reaching a qualified international audience. These presentations were mostly addressed to academics, professionals and researchers. The participation at these events contributed to the general debate on Climate change and brought added value to the project.

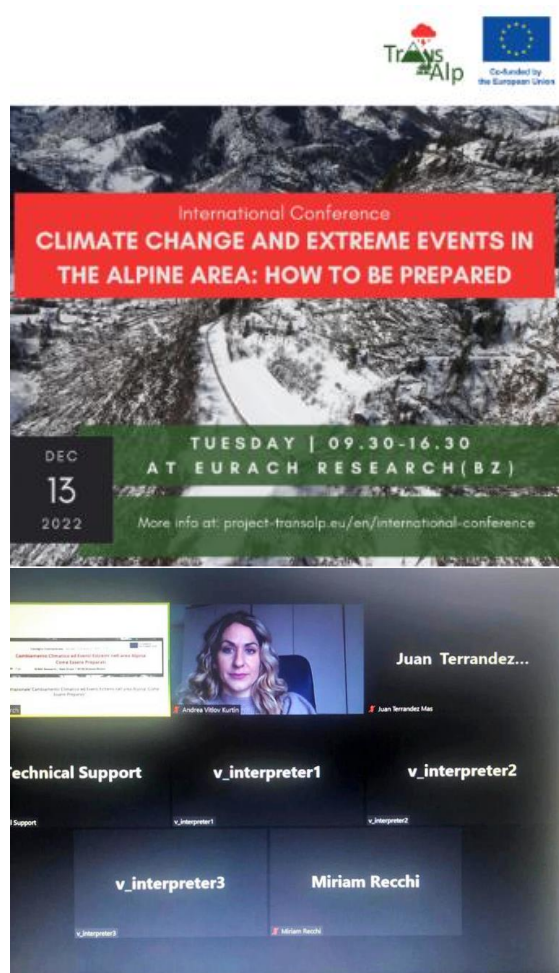
List of external events

LP Zadar County Development Agency ZADRA NOVA

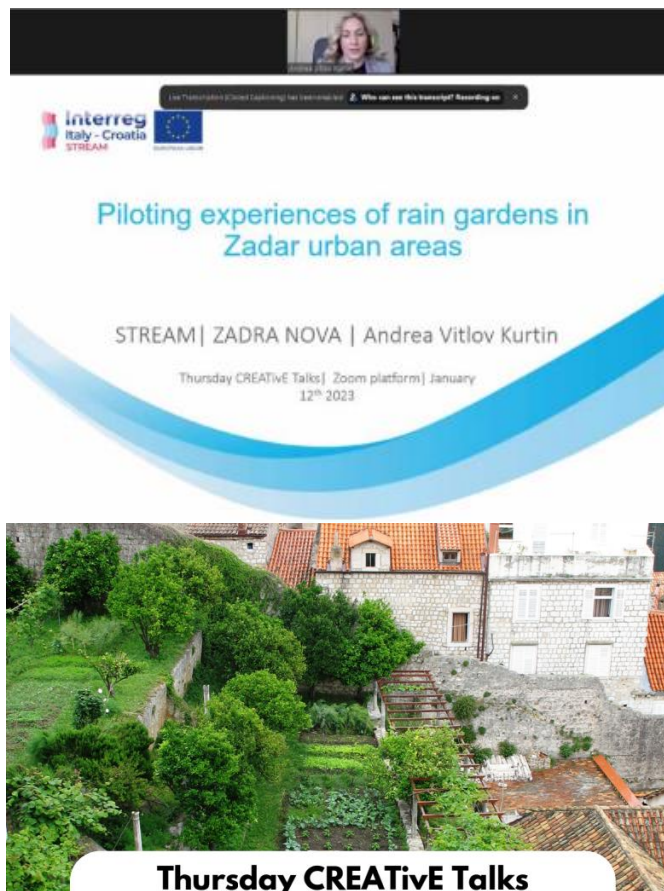
On October 27 and 28, 2022, the 4th Croatian expert meeting on urban forestry "Urban forests – Green lungs of the city - Recreational and health function of urban forests and city greenery" was held in Zadar. The expert meeting was organized by the Faculty of Forestry and Wood Technology of the University of Zagreb, Croatian Forestry, the City of Zadar and the Croatian Forestry Society - Section for Urban Forestry with the co-organizers Zadar County, the company Nasadi d.o.o. Zadar, JU Natura Jadera, Croatian Chamber of Forestry Engineers and Wood Technology, Croatian Forestry Institute from Jastrebarski and Academy of Forestry Sciences. At the expert meeting, the activities of smart drainage systems implemented through the project STREAM - Strategic Development of Flood Management were presented. Smart urban drainage system in Vruljica Park was presented on the first day of the expert meeting under the theme "Maintenance of urban woody greenery and urban forests", as a sustainable green solution with positive effects on flood prevention and maintenance of urban forests, especially in the light of increasingly pronounced climate changes. Participants were mayors, technicians, scientists, researchers, academics.



International Conference “Climate change and extreme events in the Alpine area: How to be prepared” was held on December 13th, 2022 at EURAC Research, viale Druso 1, 39100 Bolzano-Bozen. The representative of ZADRA NOVA presented the STREAM project online on the topic “Methods for reducing the impact of floods – the smart urban drainage system in Zadar”. The event aimed to increase preparedness of Alpine territories towards Climate Change and Extreme events risks by attracting the attention of local & regional Authorities and Policy Makers on threats, but also on available instruments and opportunities. Target audience was local and regional authorities involved in Civil Protection / Environment / Environment Protection / Emergency management / Risk Mitigation, etc., technicians, mayors, city-councillors from mountain towns experts, practitioners, and researchers from above-mentioned sectors.



On January 12, 2023, representative of ZADRA NOVA presented STREAM project on the 3rd webinar of the Interreg CREATE project. CREATiVE Talks edition was based on the importance of Nature-based Solutions (NbS) in coastal adaptation planning, in relation to the impacts of climate change. NbS can be considered as an 'umbrella concept' encompassing a range of established nature-based approaches which contribute to climate change resilience and disaster risk reduction. These solutions can help reduce social and environmental vulnerabilities and bring multiple co-benefits such as mitigating climate change, improving human health and well-being, providing jobs and creating new business opportunities. The speakers presented their experience in implementing NbS in different coastal areas and urban contexts.



From 10 – 13 October 2022, ZADRA NOVA representative participated in the Event – “The 20th edition of the European Week of Regions and Cities 2022” that was held at the European Parliament in Bruxelles. The 20th edition provided opportunities for debate, keeping communities connected, exchanging best practice and ideas between partners and participants on four themes: Green transition, Territorial cohesion, Digital transition, and Youth empowerment.



Also, ZADRA NOVA team participated in the Annual Event – “Our Shared Blue Basin”, held in Venice from 24 - 25 October 2022, with the aim of dissemination of the results of the project STREAM outside the programme area, exchanged experiences and acquire more knowledge about the Programme that will make a base for new projects in the new financial period (2021-2027). This event emphasised the achievements of 2014-2020 Programme implementation and introduced the new opportunities of 2021-2027 Programme, its topics and novelties, as well as the key aspects of the first call. Coherence with EUSAIR, capitalisation opportunities and synergies with other EU funding instruments and Programmes were discussed among high level institutional representatives.



PP3 University of Zadar

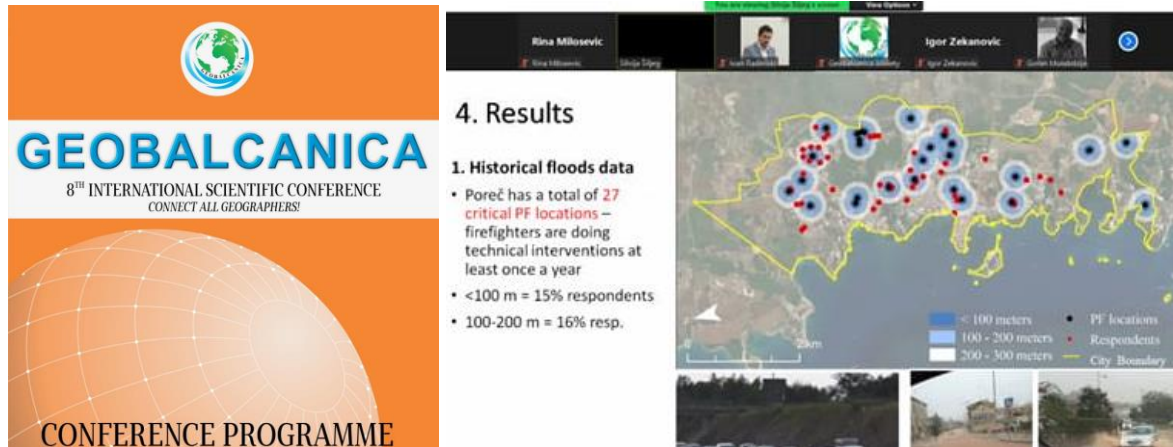
On May 26, 2022, representatives of University of Zadar participated on *EGU (European Geosciences Union) General Assembly* in Vienna with presentation in presence under the title Rainfall threshold curves and machine learning approaches for pluvial flood forecasting based on local news reports in Croatia.



On September 13, 2022, representatives of UNIZD participated on *10th International Association of Geomorphologists (IAG)* in Coimbra, Portugal. The theme of the conference was “Geomorphology and Global Change”. Conference gave scientific programme representing the latest innovations in theoretical, methodological and applied approaches in geomorphology. Over 500 geomorphologists from 46 different countries gathered in Coimbra to enjoy interesting thematic sessions, stimulating lectures and inclusive networking opportunities. Representatives of PP3, UNIZD participated with the poster entitled “Pluvial flood hazard mapping in coastal areas in Croatia”.



On May 9-10, 2022, representatives of UNIZD participated at Geobalcanica 2022 - 8th International Scientific Conference in Belgrade, Serbia, with the presentation titled “Modelling the public perception of urban pluvial floods – Case study of Poreč” and poster titled “Sub-Millimeter 3D Documentation of Dinosaur Footprints Using the Handheld Surface Scanners (DF) - Case Study Istria (Croatia)”.



On June 8, 2023, representatives of University of Zadar participated on *the International Scientific Conference - Demographic challenges in Bosnia and Herzegovina and the world*, with presentations “Comparison of the Demographic Depression Index in the Intercensal Period of the Republic of Croatia” and on June 9, 2023, with poster “Creation of a Very High Resolution Dasymetric Model Using the Advanced Geospatial Technologies”.



PP4 Regional Agency for prevention, environment and energy in Emilia Romagna ARPAE

On September 24, 2021, representatives of ARPAE presented the project STREAM within the session Hydrogeological Risks and Early warning Systems at *RemTech EXPO 2021* in Ferrara. This conference is the only international event specializing in the protection and sustainable development of territories – rehabilitation (reclamation, circular economy), natural risks (coasts, instability, climate, seismic), and regeneration (ports, cities, cultural heritage, industry).



PROGRAMMA



VENERDÌ 24 SETTEMBRE 2021

14:30-16:30		
Convegno Nazionale di studi costieri XII PREMIO G3 - miglior presentazione di studi costieri	Pav.3 – Soil Room	127
Tavolo di Lavoro Decreto Legge Incendi	Pav.4 – Sea Room	128
Comunicazione Ambientale, Innovazione Tecnologica, Transizione Ecologica: dalla formazione specialistica alle new skills	Pav.5 – Sky Room	126
Comunità energetiche rinnovabili: cittadini e transizione ecologica	Piazzetta Fire – Pav.5	129
16:00 – 18:00		
Rischio idrogeologico e sistemi di early warning	Piazzetta Dearch - Pav.4	129
17:00-19:00		
Convegno Nazionale di studi costieri XII PREMIO G3 - miglior presentazione di studi costieri	Pav.3 – Soil Room	127

Representatives of ARPAE presented the STREAM project in CASCADE project’s workshop about “North Adriatic Sea coastal areas management” in Goro on July 02, 2022. The workshop was organized by ARPAE and University of Bologna and it was focused on the results of the study performed in the frame of the Italia-Croatia CASCADE project dealing with the characterization and management of the North Adriatic coastal and marine environments, with special emphasis on Natura 2000 sites. The event was followed by a naturalistic walking in the Goro coastal area. The STREAM project results were described during the presentation on the ARPAE modellistic studies and activities for the management of the regional coastal areas.





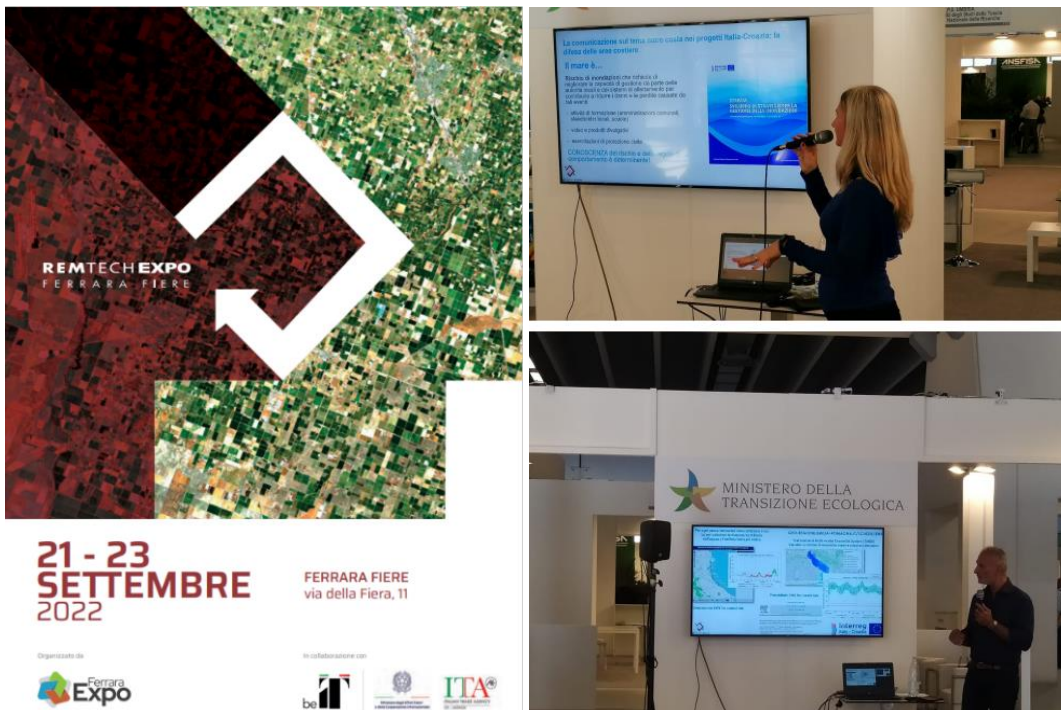
LA GESTIONE DELLE AREE DI TRANSIZIONE DEL NORD ADRIATICO
NORTH ADRIATIC SEA COASTAL AREAS MANAGEMENT
 Goro, Sala del Consiglio comunale, 2 Luglio 2022
 Moderano: Rossella Pistocchi (UNIBO), Andrea Valentini (ARPAE)

- 11.00 Introduzione al progetto INTERREG “CoASIA and marine waters integrated monitoring systems for Ecosystems protection and management” (CASCADE)
 Valentina De Pinto (Regione Puglia), Mauro Conficconi (DELTA2000)
- 11.20 Le specie delle aree costiere come patrimonio naturalistico
 Coastal areas species as naturalistic heritage
 Francesco Goggi (Ente Parco del Delta del Po)
- 11.40 Il FLAG Costa dell’Emilia Romagna
 Vadiis Paesanti
- 11.50 Nuove tecniche di monitoraggio integrato del fitoplancton per la gestione degli ecosistemi costieri
 Innovative phytoplankton integrated monitoring techniques for coastal ecosystems management
 Riccardo Bentivogli, Nicolò Caputo, Laura Pozzolesi, Franca Guerrini, Sonia Silvestri, Beatrice M.S. Giambastiani, Federica Costantini, Rossella Pistocchi (UNIBO)
- 12.10 I popolamenti dei fondali della Sacca di Goro
 Benthic assemblages in the Goro lagoon
 Massimo Ponti, Marina A. Colangelo (UNIBO)
- 12.30 Un modello per la gestione delle dinamiche della Sacca di Goro
 A model for the management of the Goro lagoon’s dynamics
 Jacopo Alessandri, Marco Zavatarelli, Roberto Arcamone (UNIBO), Luis Germano Biolchi, Silvia Unguendoli, Andrea Valentini (Arpae), Georg Umgiesser, Christian Ferrarin (CNR-ISMAR), Ivan Federico (CMCC)
- 12.50 Distribuzione di *Spartina* spp. e risposte a interventi di ripristino dell’ambiente di barena
Spartina spp. distribution and response to salt marshes restoration
 Davide De Battisti, Laura Airoidi (UNIBO - UNIPD)
- 13.10 Conclusioni




Adriatic sea... let's care!
 Discover the complete program of the Adriatic Seaside Festival events,
 from 30th of April to 30th of September 2022
www.deltadeltaemilia.net @ DELTA 2000

RemTech EXPO was organized in Ferrara on September 22 and 23, 2022. Representatives of ARPAE presented the project STREAM within two different sessions. On September 22, at the National Conference on coastal erosion: monitoring, planning and new technologies for coastal management", the title of the speech was "STREAM Project: improving defense and response to floods through technological innovation of warning and monitoring systems and raising citizens' awareness of the adoption of correct behavior in the event of floods". The presentation was focused on models and tools for improving the monitoring systems and told about the educational/informative activities in the Emilia-Romagna pilot area. STREAM project was also presented on September 23, at the National Conference on Meteorological Risk Management, during the presentation entitled "Assessment of coastal marine risk: examples in the Emilia-Romagna Region".



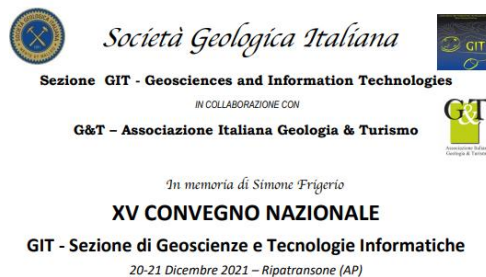
PP6 National Research Council CNR

CNR-ISMAR representatives participated online in the session at the *EGU General Assembly 2021* conference with the presentation entitled “Multiple drivers of extreme sea levels in the northern Adriatic Sea”.



16:05–16:07 | EGU21-8727 
[Multiple drivers of extreme sea levels in the northern Adriatic Sea](#)
 Christian Ferrarin, Piero Lionello, Mirko Orlic, Fabio Raicich, and Gianfausto Salvadori

On December 21, 2021, representatives of CNR-ISMAR, presented the STREAM project online on the *XV GIT-Geosciences and Information Technologies National Conference* of the Italian Geological Society with speech entitled “When the sea arrives on land: an integrated web infrastructure for the processing and publication of oceanographic forecasts, geographic data and sensors”



INFO Convegno: segreteriaigit@gmail.com
www.gitonline.org
 Piattaforma Web: [GoToMeeting](#)

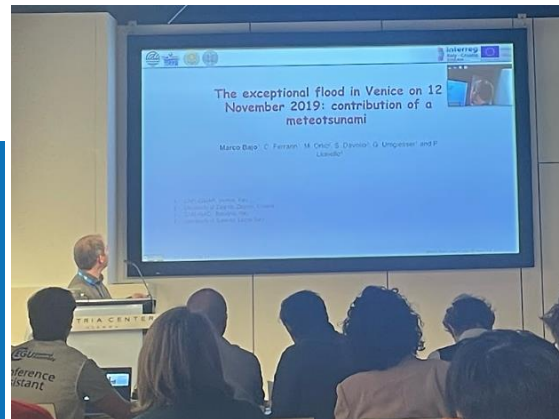
On May 25, 2022, CNR-ISMAR researchers participated in presence at the *EGU General Assembly 2022* in Vienna, the largest European conference on geosciences. They presented their work related to the STREAM project on extreme marine events, coastal sea levels, their prediction and coastal flooding in two different sessions with speech entitled “Sea-level modelling in the Mediterranean Sea using data assimilation” in conference session OS4.7 “Data assimilation techniques and applications in coastal and open seas” and with speech entitled “Assessing the coastal impact of medicane Ianos through a wave-current model forced by a multi-model atmospheric ensemble” in conference session NH5.4 “Natural hazards and climate change impacts in coastal areas”.



On October 18, 2022, *Sea Level Rise Conference* was organized in Venice. A representative of the CNR-ISMAR presented the project STREAM in a panel discussion within the session Sea Level Rise: more than rising water. With transgressing seas, coastal erosion is a prominent impact of sea level extremes in some regions, while other areas are exposed to flood risk, salt water intrusion or major changes in the dynamics of estuaries or river deltas. Major impacts of sea level rise and its variability across locations and time windows were discussed.



CNR-ISMAR representative participated in presence at the *EGU General Assembly 2023* in Vienna, the largest European conference on Geo-sciences and presented work related to the STREAM project on extreme marine events, coastal sea levels, their prediction and coastal flooding. The EGU23 conference was organized in several parallel sessions, and researcher had a speech entitled “The exceptional flood in Venice on 12 November 2019: contribution of a meteotsunami” in conference session OS4.6 “Extremes in marine environment: analysis of multi-temporal and multi-scales dynamics using observations, models and machine learning techniques” on April 26, 2023. More information on EGU23 can be found at the link <https://www.egu23.eu/>.



PP7 Euro - Mediterranean Center on Climate Change Foundation

From October 2021 to 31 March, 2022, *Expo Dubai* was held across 192 country pavilions. Ocean exploration, real-time ocean forecasting and the consequences for sustainable development were at the centre of the partnership between the CMCC Foundation and the Italy Pavilion at Expo 2020 Dubai. Representative of CMCC presented the main results of STREAM project focusing on numerical modelling approach in the coastal protection against storm surge events.

<https://www.youtube.com/watch?v=F9SmhBYAIY0>

Modelling and Operational Forecasting for coastal ocean: storm surge and Nature-Based Solutions

I. Federico¹, G. Coppini¹, N. Pinardi²
and OPA division at CMCC

¹ Ocean Predictions and Applications, Euro-Mediterranean Center on Climate, Lecce, Italy
² Department of Physics and Astronomy, University of Bologna, Italy

Sustainable coastal management: technologies for an integrated approach
Dubai, 22 March 2022



Ocean Modelling and Operational Forecasting Oceanography

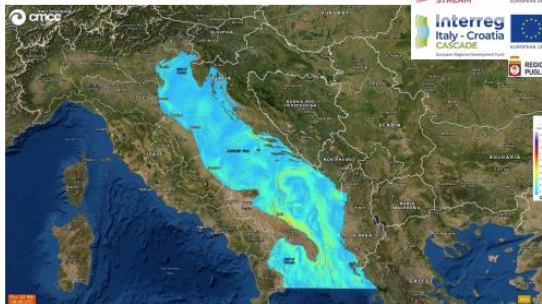
High- and hyper-resolution coastal Modelling in Adriatic Sea





Seamless and cross-scale approach

Down to the urban ocean

Nature Based Solutions

Storm surges and sea level and waves extreme events





ITALIA
LA BELLEZZA UNISCE LE PERSONE
BEAUTY CONNECTS PEOPLE
الجمال يجمع الناس

PP8 Polytechnic University of Marche

On September 30, 2022 in Ancona, project Sharper, the European Night of Researchers was held in order for researchers, scientists from all over Europe to present their discoveries and challenges through exhibitions, performances, concerts, games, conferences and hundreds of other initiatives aimed at the general public. Representatives of the Polytechnic University of Marche presented the memory game developed as part of the activity on the education of stakeholders within the STREAM project. SHARPER is coordinated by the scientific communication company Psiquadro, in collaboration with a consortium that includes the National Institute of Nuclear Physics - INFN, five universities: Polytechnic University of Marche, University of Cagliari, University of Catania, University of Palermo, University of Perugia, Imaginario Scientifico Museum of Trieste, Observa Science Association in Society. The University of Camerino, the University of Genoa, the University of Macerata and the University of Sassari also participate as associated partners.



PP9 Marche Region

On May 26, 2022, representatives of Marche Region participated on *EGU* (European Geosciences Union) General Assembly in Vienna with Virtual presentation at Session EGU22-8144 under the title “A Probabilistic hydrometeorological forecasting chain for operational warning procedures in the Marche Region”.

13:48-13:55 | EGU22-8144 | Virtual presentation

[A probabilistic hydrometeorological forecasting chain for operational warning procedures in Marche Region](#)

Simone Gabellani, Andrea Libertino, Fabio Delogu, Giulia Ercolani, Matteo Darienzo, Francesca Sini, and Valentino Giordano



On July 6, 2021, *RadMet 2021 Conference*: Radar meteorology between science and resilience was organized. Marche Region participated with virtual presentation through youtube channel in the afternoon session: IV National Radar Meteorology Conference <https://www.youtube.com/watch?v=q1PDgT8sqQo>.



On October, 2021, in order to enhance volunteers training activities, a dedicated video (<https://www.youtube.com/watch?v=fsEZGKIDqDQ>) was prepared and shared during the National Campaign “I don't take risks,, (<https://www.youtube.com/watch?v=OnAJLg3T8Ds>) inside the national civil protection week 2021.



PP14 City of Venice

The City of Venice held a presentation of the project STREAM at the Eurocities General Assembly which took place online on November 5, 2020. The presentation was held in the framework of the speed-networking session titled “Coping with floods and climate change: how the EU projects are helping Venice”. The presentation was announced to all Eurocities members and to the City of Venice partners and contacts. The session took place on MStTeams and was attended by 22 people connected via TEAMS, representatives of European cities and local authorities. The presentation was then made available on the Eurocities website for all the members (<https://eurocities.eu/eurocities-2020-presentations/>).



Conclusion

By participating in external events, project partners contributed to project promotion and transfer of knowledge among project partners, stakeholders and the general public. The Application Form of the STREAM project clearly states that participation in external events (D.2.5.3.) is foreseen to ensure visibility beyond the project partnership and the project-involved regions/countries. PPs attended external events to achieve greater dissemination of project results.