

PROJECT PARTNERS

LP Molise Region
www.regione.molise.it

PP1 Dubrovnik and Neretva County
www.dubrovnik-neretva.eu

PP2 Marche Region
www.regione.marche.it

PP3 Split-Dalmatia County
www.dalmacija.hr/en

PP4 EEIG Eurelations
www.eurelations.eu

PP5 Friuli Venezia Giulia Region
Civil protection Dpt.
www.protezionecivile.fvg.it

PP6 Zadar County
www.zadarska-zupanija.hr

Project overall objective

READINESS (Resilience Enhancement of ADriatic basiN from firE and SeiSmic) aims at increasing the safety of the Croatian and Italian Adriatic basin from natural and man-made disaster. It pursues this objective by improving the both countries' resilience and overall ability of ecosystems and communities to resist, absorb, accommodate to and recover from the effects of forest fire and earthquake hazards in a timely and efficient manner.

The cross-border partnership aims at monitoring of forest fire and seismic risks and enhancing crisis management by: a) improving proactive readiness of Civil Protection and Inhabitants; b) enhancing the monitoring of SPBs' seismic vulnerability and safety in quality and quantity then; c) strengthening the use of monitoring system in forest fire surveillance and detection. The above objective will be sought by promoting cross-border policies that encourage the development of integrated effective sustainable solutions that harmonize at the best with specific territorial contexts.

Project' specific objectives

- 1) To improve the proactive readiness of Civil Protection in facing forest fire and earthquake hazard;
- 2) To establish cross-border model and pilot actions to monitor strategic and relevant public buildings;
- 3) To improve citizens' behaviour to face forest fire and earthquake disasters.

Main outcomes

3 Thematic enhancement and adaptation reports;
1 Pilot Operational Plan Framework;
1 Report on implementation and evaluation of pilot deployment;

1 Transfer plan of policy recommendations;
6 Regional one-day training workshops.

Target Group

- Children;
- School-age youth;
- Volunteers;
- Civil protection servants;
- Local, regional and national public authorities

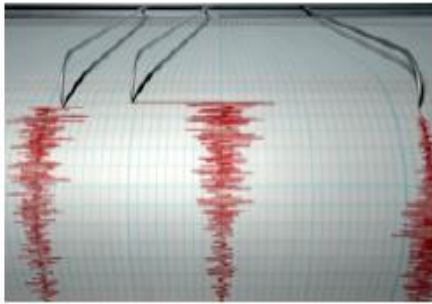
Total budget

€1 176 000

Duration

01.01.2018 – 30.06.2019





Activity Plan

WP1: Project management and coordination of activities (01/01/2018 -30/06/2019)

The package entails the start-up activities, the daily management and the whole monitoring of the project implementation progress and its financial management.

WP2: Communication activities (01/02/2018 – 30/06/2019)

It involves the start-up activities, the kick-off in Termoli, all the relations with media and document publication. Many digital and innovative tools are envisaged, among which video, infographics and cinemographs. Different kind of social events, work café, awareness days and international events.

WP3: Analysis & streamline of Holistic practices (15/01/2018 – 30/06/2018)

It consists in analysis of technical, scientific and practical issues related to the transferability of the outcomes and best practices. Three task forces have been set up in order to implement outlined enhancement and adaptation measures and release the methodologies, procedures and frameworks to be tested on involved territories.

WP4: Pilot projects deployment (01/07/2018 – 31/09/2019)

The WP aims at deploying the capitalized guidelines, methodologies, best practices and practical results achieved by HOLISTIC project, enhanced and systematized in the frameworks and plans released in the previous WP3. The above target will be achieved by implementing one or more thematic pilot projects in each site, selected by each partner within its territories, according the interventions planned in that territory from Pilot Operational Plan Framework.

WP5: Transfer & share of acquired knowledge (01/03/2019 – 30/06/2019)

The WP aims at transferring the tested capitalized practices and acquired knowledge and learnt lessons in the regional policies of each involved region and beyond. The above objective will be achieved primarily by adopting a transferring plan in regional policies of Strategic Agenda; secondarily by spreading and making the acquired knowledge and learnt lessons accessible and exploitable by policy makers and stakeholders within and beyond the project area through the activation of a capacity building intervention.

Contact us

Name

Address: via Garibaldi 54/b - 86100
Campobasso (IT)

Phone: +399874484804

Email: info@eurelations.eu

Website: www.italy-croatia.eu

Social media:

<https://www.facebook.com/ReadinessProject/>

<https://www.linkedin.com/showcase/readiness-project/>

<https://www.youtube.com/channel/UC8u8wCQv3Mb6RmslxunTvw/featured>

<https://twitter.com/ReadinessP>



PROJECT EVENTS, MEETINGS AND NEWS

1) KICK-OFF MEETING, 07- 08/02/2018 TERMOLI (IT)

The first meeting of the project took place in Termoli the 7th and 8th of February 2018, organised by Molise region in collaboration with EURElations EEIG. The partners introduced themselves and discussed about project contents and programme procedures. Representatives from JS actively participated to the meeting. Most of the partners already knew each other thanks the "Holistic project" experience.



2) WORK CAFÉ, 19/04/2018 BELFORTE DEL CHIENTI (IT)

The Work Café was held at Belforte del Chienti with 12 participants. The event was the occasion to present the READINESS project to the municipalities, the CP volunteers and territorial groups and the other actors that will be involved in the pilot activities.

The project was described to the participants and then a discussion was set on the main technical activities to be implemented, in particular, related to the training course that will be held in Belforte del Chienti and the choice of the strategic public building in the municipality.

Project activities were described both by PM of Marche Region and INGV staff. The fruitful discussion allowed to boost the programme of the training course by taking into account the suggestions and the feedback from the participants (CP volunteers). Observations and proposals were also made by the stakeholders on the strategic building to be selected for installing the technical instruments. Finally, some possible scenarios were discussed in relation to the realization of the Pilot Action.

The event was held on the occasion of aperitif and dinner working meeting, therefore the communication was direct and included in an informal framework.





3) READINESS PROJECT PRESENTATION, 20/04/2018 - DUBROVNIK (HR)

The project has been presented, the 20th of April at Dubrovnik city hall, to the participants of the Assembly of the Croatian Counties and Disaster Risk Reduction Cities. Once again the goal of the project which is strengthening the capacity of civil protection forces, especially in the domain of fire protection and mitigating the consequences of possible earthquakes on the seismically active territory of this part of the Europe, has been distressed. The members of the Assembly of the Croatian Counties and Disaster Risk Reduction Cities were acquainted with the first terrain exercise of the civil protection forces of Dubrovnik and Neretva Region, within the framework of the READINESS project, called Readiness 2018 and scheduled on June 2. The exercise will be dedicated to interventions in case of major accidents caused by earthquake and fire. The participants of the Assembly agreed that both of the projects, HOLISTIC and READINESS, are rated as examples of good practice and usage of the available EU funds for strengthening civil protection systems in participating countries.



4) WORK CAFÉ "SEISMIC MONITORING OF STRUCTURES: APPROACHES AND TECHNOLOGIES", 24/05/2018 - MARCHE REGION HEAD OFFICE (IT)

On 24 May 2018 the Work Café entitled "Seismic Monitoring of Structures: Approaches and Technologies" was held as part of the Interreg Italy-Croatia READINESS project organised by the Civil Protection Service of the Marche Region (SPCRM) in coordination with the Ancona headquarters of the National Earthquake Observatory of the National Institute of Geophysics and Volcanology (INGV-AN). In addition to these two subjects, the stakeholders represented by professors and researchers from the Department of Civil Engineering, Buildings and Architecture - Structures Section (DICEA) and the Department of Information Engineering (DII), both from the Polytechnic University of Marche (UNIPM), were present.

The purpose of the Work Café has been oriented towards the comparison between different disciplines and skills at the service of civil protection purposes, in relation to seismic monitoring of structures and Strategic Public Buildings (SPB).

After a presentation of the READINESS project by the SPCRM, the activities carried out by INGVAN as External Expertise of the Marche Region, the experimentation of low-cost sensors and advanced monitoring technology developed in collaboration between DII and INGV-AN and finally the different types of seismic monitoring of the structures by DICEA were presented.

During and after the presentations, the discussion focused on the search for meeting points between the different competences, in order to better understand the usefulness and potential of the activities carried out within the READINESS project and imagine future developments.



At the base of the buildings, MEMS sensors can be used that register accelerations useful both for the generation of regional shaking maps and for the precise monitoring of the SPBs, and that present background noise of a few μg . For the sensors to be installed on the structures, MEMS sensors with background noise of a few tens of μg have been identified, but it is necessary to develop the technology for data transmission.

- The use of a single sensor on the structure in addition to the one at the base is useful to identify the translational behavior of the building, any interfloor drift and the shaking ratio between the apex and the base of the structure.

An additional single-axis sensor on the structure could add rotational motion information. The same scheme could be used for temporary measures with simultaneous measurement of 2 points on the structure.

- Sensors installed on the upper floors of the structures even if they do not record the environmental seismic noise can be used to verify the dynamic behaviour of the structure subjected to strong stresses that could give results partly different from those obtained with the microtremor measurements.

- Information from temporary environmental microtremor measurements of ground and structure resonance frequencies can be used in accuracy assessments of theoretical building response models.

- Fast calculation of response spectra from the accelerograms recorded at the base of the building can be quickly cross-referenced with the fundamental vibration frequencies to imagine what types of buildings may have been damaged by the earthquake.

The Work Café concluded with a greater awareness of the various stakeholders on the potential of the activities and on possible improvements in the design of the READINESS PILOT Project.

5) CIVIL PROTECTION VOLUNTEERS TRAINING FOR FIREFIGHTING, 26 – 27/05/2018 & 09 -10/05/2018 – MARCHE REGION (IT)

Courses were organized in two operative modules, as following. Module I: - 3 courses of theoretical lessons held in Fano, Fabriano and Sant'Elpidio a Mare Municipalities on 26th and 2&7th of May (18 hours) Module II: - 3 field practices and simulations (for almost the same volunteers that attended module I) held in Fermignano, Fabriano and Venarotta Municipalities on 9th and 10th of June (18 hours) Civil Protection volunteers, coming from several civil protection groups and associations, were trained and fire fighting course certification obtained. Forest fire fighting modules on off-road vehicles and Personal PPE (Personal Protective Equipment) were used and tested during simulations. Regional local Fire-Fighting brigades, specialized in fire fighting operations, drills and procedures trained the volunteers. An agreement of cooperation between Marche Region and Fire Brigade Corps has been signed in order to face regional forest fire. Civil protection officers were the course tutors.



6) A CIVIL PROTECTION, WILDFIRE AND EARTHQUAKE EXERCISE, 02/06/2018 - DUBROVNIK NERETVA REGION (HR)



Dubrovnik and Neretva Region has organized wildfire and earthquake, civil protection exercise as a part of the project implementation activities. More than 150 participants were participating: firefighters, professionals and volunteers, Police, Institute of Emergency Medicine of the Dubrovnik and Neretva Region, Croatian Mountain Service, Croatian Red Cross, Croatian Firefighting Association, National Rescue and Protection Directorate, Municipality of Dubrovačko Primorje. Locals participated as well.

The scenario of the exercise prescribed that the wider Dubrovnik area has been hit by the 6-degree earthquake, according to Richter magnitude scale and, after a while, the fire broke. The civil protection members took care of people who had been in the collapsed building, rescued people trapped in the car during the earthquake, rescuers performed several actions trying to save human lives.

After the exercise, the exhibition of the firefighting vehicles and equipment has been organized and visited by children, professional and volunteer civil protection commanders and, of course, many tourists.



7) "SAFETY 2018", 15-17/05/2018 - ZADAR, ŠIBENIK-KNIN AND SPLIT-DALMATIA COUNTY (HR)

The State Protection and Rescue Administration, in cooperation with the Ministry of Defense and the Ministry of Interior, organized Inter-sectional Coordination for the Homeland Security System "SAFETY 18". The main goal of the exercise is to assess readiness and coordination of operation forces on the ground involved in the 2018 firefighting implementation. The exercise is held on multiple locations in three counties in Dalmatia, during which a real-time image with an elaborated scenario will be (live) streamed, from the crashed area to the Operational Fire Department in Divulje from which the crisis is handled. The field exercise scenario envisions several major forest fires in Zadar, Šibenik-Knin and Split-Dalmatia County, where road and rail traffic and numerous settlements are endangered. A part of the exercise was held in the Muć area of Borovica, which involved the open-air fire drill as well as the simulation of overturning dangerous cargo tanks.



8) READINESS WORK CAFÉ. PROTECTION AND RESCUE IN THE CASE OF EARTHQUAKE AND FIRE, 14/06/2018 – ZADAR (HR)

A project informal meeting called Work Café was held on 14th June, 2018, in Zadar in the premises of Europe Direct Zadar information center. It was an informal conversation about project activities in which the Zadar County's protection and rescue members participated. The Work Café was held with the objective of presenting the project in a form of informal discussion about collected data, networking and possible cooperation with the stakeholders from the field of protection and rescuing. The importance of quality coordination of all the official bodies of Zadar County who are in charge in the case of catastrophe caused by earthquake or fire was the highlight point of the discussion. On Work Café participated: chief of the Zadar County's Headquarters of Civil Protection, representatives of the State Administration for Protection and Rescue from regional office Zadar, Zadar County's Public Fire Brigade and Zadar station of The Croatian Mountain Rescue Service. The possible ways for the cooperation on project activities were established with the present representatives. All media was informed on the results of the meeting and articles have been published on local portals.



9) II° STEERING COMMITTEE AND II° MEETING OF THE PROJECT, 18-21/06/18 - DUBROVNIK (HR)

The second READINESS project meeting took place in the beautiful venue of Hotel Kompas in Dubrovnik. The partnership took major steps forward in the realization of WP3, assessing and integrating the achievements from the three task forces. The partnership discussed extensively about the project procedures and its milestones. Then, the partners enjoyed a guided visit in Dubrovnik town centre where they were guided through the wonders of the old towns and buildings. The day after, in the town hall, the meeting continued and the vice major illustrated the reconstruction phases, after the earthquake and the bombing, and the problems the town is facing today.

