



Summary

Pag. 1

Overview of the project

Pag. 2-3

Partners meeting in Corfu

Pag. 4

Workshops:

Dabar

(Split-Dalmatia County)

Šibenik

(Šibenik - Knin County)

Pag. 5

Target Groups Education and Awareness:

Gruda

(Dubrovnik Neretva Region)

Lido di Dante

(Parco del Delta del Po)

Pag. 6

Target Groups Education and Awareness:

Training drill in

Tortoreto (Teramo)

Pag. 7

Partnership



A JOINT ACTION TO REDUCE THE ENVIRONMENTAL RISKS IN THE ADRIATIC BASIN



Let's grow up together

Adriatic IPA

Cross Border Cooperation 2007-2013

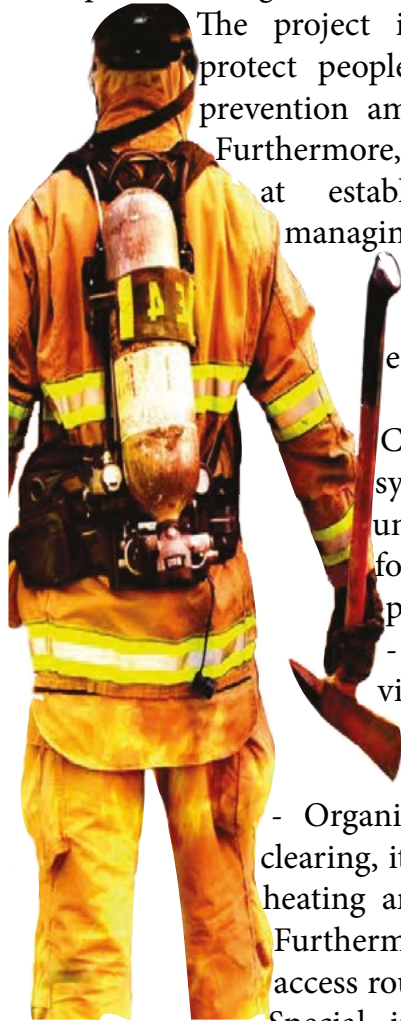


Programme co-funded by the EUROPEAN UNION, Instrument for Pre-Accession Assistance



Overview of Holistic Project

Holistic Project has been co-financed by the European Union through the Adriatic IPA Cross Border Cooperation Programme 2007-2013.



The project is intended to reduce the number and the impact of forest fires, to protect people, natural environment and properties, and in particular to promote fire prevention among rural communities in fire prone areas of regions facing the Adriatic. Furthermore, the project provides actions related to earthquakes risk aimed at establishing a permanent instrument for preventing, controlling and managing strategic public buildings from earthquakes' damage risk. The project performs joint initiatives and pilot actions for direct and indirect long, medium and short-term preventive measures in wildfire and earthquake risks to enhance policies, regulations and coordination mechanisms.

Considering that forest fires represent a constant threat to ecological systems, infrastructure, economy and human lives, it is necessary to undertake joint actions towards increasing the level of protection against forest fires. Holistic approach aims at integrating forest fire protection and prevention measures, economic use of biomass, tourism and recreation using:

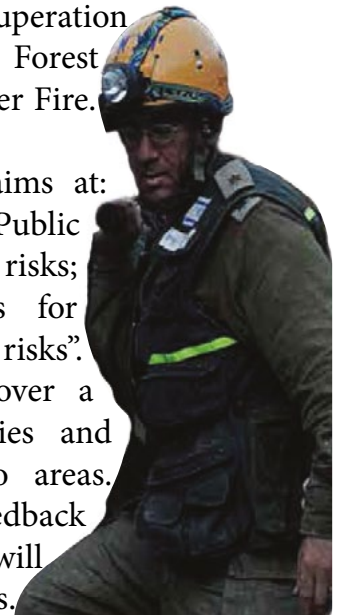
- Advanced forest fire monitoring system conceived of a network of automatic video surveillance and meteorological monitoring stations, supported by advanced regional systems for micro-location forest fire risk indices calculation and simulation of forest fire propagation and behaviour.
- Organised system for collection of forest looping after forest fire thinning and clearing, its cutting and finally its use as a commercial biomass fuel in communal district heating and cogeneration plants, or in individual heating system of public buildings.

Furthermore, it includes the systematic clearance of forest corridors not only as easy access routes for fireman, but also as routes for sport, recreation and village eco-tourism. Special information system for planning fire prevention, early detection of fire, fire fighting management and post-fire planning the recuperation of the burned areas has to be conceived. Benefits of Holistic Forest Fire Protection model are in all forest fire stages: Before Fire, During Fire and After Fire.

Strategic buildings' earthquake risk assessment, prevention and monitoring aims at:

- establishing instruments for monitoring Strategic Public Buildings (SPBs) (D.G.R. n. 438), from earthquakes' damage risks;
- developing joint proposals for legislative and institutional regulations for SPBs' protection, based on the "protection of SPBs from earthquake's risks".

The action focuses on the monitoring of changes in SPBs' vulnerability over a defined time period due to the natural degradation of material properties and cumulative damage from continuous low-level seismic activity in the two areas. The lessons learnt, the faced shortcomings and the related feedback from an IPA and EU policy makers' seminar on the topic will be the base to draft proposals for SPB protection policies.



3rd Project and steering committee meeting in Corfu - 15-18 of June



Decentralised Administration of Peloponnese, Western Greece and Ionian partner organised and hosted a three days project meeting in Corfu, from 15 to 18 of June, in order to assess the state of the art of project implementation and activities and share all partners experiences and strategies to approach wildfire and earthquake risks prevention.

In the first day, after the introducing session by Lead Partner from Split Dalmatia County, Mrs Anelka Vukotic and institutional greetings by

the Mayor of Corfu, Mr. **K. Nikolouzos**, the Commissioner of Region of Ionian Islands, Mrs. **N. Pandi**, the Acting Secretary General of Decentralised Administration of Peloponnese, Western Greece and Ionian, Mr. **D. Panagiotopoulos**, and the Commander of the Ionian Regional Administration Fire Service, Mr. **E. Georgakopoulos**, there has been held a thematic workshop on “Strategic buildings’ Earthquake risk assessment, prevention and monitoring” coordinated by representative of COPE Teramo, Mr **E. Galluccio**.

In this occasion Marche Region representative, Mr. **L. Abete**, presented the dedicated software which have been realized in order to provide the experts and operational corps, which are working on the public strategic building monitoring against seismic risks, with an advanced tool to collect all relevant structural and various information of the buildings.

In the second day, Decentralised Administration of Western Greece, Peloponnese and Ionian representative, Mr. **S. Michos** coordinated a session on the wildfire risks with the relation of Mr. **G. Xanthopoulos**, belonging to the Institute of Mediterranean Forest Ecosystems, on the actions for reducing wildfire risk in windland-urbaninterface (WUI) areas of the Mediterranean region Organisation and Mr. **A. Kanavos** and **N. Kolovos** introduced the activities and intervention modalities by the Hellenic Fire Service - Serving the Community and the Environment.

In the afternoon Mr **A. Oradini** from Molise Region coordinated the workshop on “Reduction of fire risk by sustainable forest manager” analysing resources from forests biomass in targeted areas and evaluating the potential for creation of sustainable models for biomass utilization for energy production in target areas, leading to the redaction of a manual for effective utilization of biomass and carrying out feasibility studies for installation of heating systems in public buildings with the contribution of Mrs. **A. Furlan** from Municipality of Ajdovščina which shares the good practices on the feasibility study of a biomass heating system in the Lokavec Branch Primary School.

At the end of the workshop session Mr. Oradini, presented the document on after fire vegetation restoration and management recommendations, written in collaboration of Mr **T. Dubravac** and Mr. **B. Hrvoj** from the Croatian Forest Research Institute, depicting main information on forest fires in the Adriatic area, ecological factors for post-fire vegetation regeneration, strategy for post-fire vegetation regeneration and after fire restoration measures.

Mr. **F. Natale** from PO Delta Park partner and Mr. **M. Tomljanović** from Dubrovnik Neretva County presented a report on the on-going educational and awareness policies in the field of indirect fire prevention which is

developed by partners in each territory in a cycle of events as follows: - Seminars for inhabitants, social groups & PA; - Training&info days for schoolchildren and students; - Training courses for Civil Protection Volunteers - General public awareness, posters, radio trail and TV appearances.

On Wednesday, 17 June 2015, in the morning Mr. **H. Matijevi**, from from IN2 and IGEA consortium on behalf of Zadar County discussed on the AdriaFireGIS implementation progress: the collection and import of globally available data (historic fire records from MODIS, administrative units' boundaries, buildings and roads from Open Street Map) has been finished and the appropriate OGC web services established. In the following period the specific data sets, as specified by the Technical report concerning definition and standardization of dynamic and static GIS layers concerning fire prevention and fire fighting for Web based GIS services and delivered by the Project partners, will be imported into the AdriaFireGIS database and the OGC services established. The first prototype of the AdriaFireGIS with basic functionalities has also been presented during the meeting.



Later on, Mr. **D. Stipanicev** from Split Dalmatia County presented the AdriaFireRiskPanel prototype focusing on the design of that one which has been installed on Marjan Hill in Split – Dalmatia County and its deployment. Design and software are Royalty Free, so everyone could use them to make the warning panel. It was suggested to prepare for contracting procedure quite simple technical specifications but also to give to all possible contractors the panel design documentation to simplify the panel production.

Moreover he presented a report on AdriaFirePropagator prototype which is a Web based application for 2-D wildfire behavior modeling and spread simulation. It has two modalities: active and simulation mode. Users of the system are System administrator, firefighting activities planner and sentry in the firefighting center. It is based on computer side on GRASS GIS Open Source GIS server software and on model side on Rothermel's fire spread model and cellular automata fire front simulation. It has a multi-user environment – each user is presented with his own user interface. The prototype is limited to the area of Split – Dalmatia County but in deployment phase it will be deployed for the whole region. All software including the modification and adaptation of Grass GIS will be also published as Royalty Free Application under Open Source License, so everyone could use them and modify.

In the last workshop section three reports were presented on the specific theme of terrestrial Forest Fire Monitoring and Surveillance System Modelling:

- Emergency intervention code of conduct report with distribution of tasks, definition of coordinating bodies – presenter
- User rights report with definition of different application users level accessibility and rights
- Visible video monitoring in Molise Region

The first report presented by Dr. **L. Šeric**, SDC – FESB, Split was based on the survey that was presented concerning different approaches to emergency intervention in different partners countries. In HOLISTIC project there are various stakeholders, many partners, various laws, procedures and policies about emergency situation handling, so the idea was to find a way to normalize them and to make recommendation about harmonization and enhancement of existing procedures and policies.

The second report, presented by Mrs. **Šeric too**, dealt with quite relevant security issues. All most important applications in HOLISTIC project are Web applications, so Web application security, Authentication schemas and User rights models are of great importance.

In the third report a project for Molise Region concerning Determination of monitoring location according to previously defined procedure was presented as good practice.

Finally, Mr. **R. Podbojac** from Croatian Firefighting Association has presented State of progress in realization Installation of GPS fire fighting vehicles tracking systems in various selected areas.

Dabar, Hrvace, Split-Dalmatia County - 21 May 2015



Split-Dalmatia County has organized a workshop and a presentation of the HOLISTIC project for local stakeholders as a part of the activities under activity "Target Groups Education and Awareness" (Communication campaign for inhabitants, social groups and public authorities) on 21 May 2015 in Dabar, Hrvace Municipality, Split-Dalmatia County.

Workshop focused on very different and peculiar aspects, such as:

- Analysis of preparation and implementation fire fighting activities before the tourist and harvest season according to national legislation;
- Analysis of preparation and implementation of Action plan for

tourist season 2015;

- Project HOLISTIC- Presentation of main project activities for improvement of fire fighting system.

During the workshop Split-Dalmatia County has also organized line up, parade and demonstration of Specialized Unit for Civil Protection for rescue from ruins. Specialized Unit has 30 members and 3 trained dogs trained for rescue from ruins.



Šibenik, Šibenik - Knin County, 22nd May 2015



In the organisation of Šibenik - Knin County and as a part of the activities of the HOLISTIC project, educational workshop was held in Catholic elementary school on 22nd May 2015 in Šibenik.

Around 100 schoolchildren with their teachers participated in this event, opened by County Prefect Goran Pauk with presentation of main activities of HOLISTIC project. Following that, representative of National Protection and Rescue Directorate held a short presentation for children in the field of protection and rescue, after which Town Šibenik Fire brigade presented a firefighting equipment.

Workshop was closed with competitive exercises for firefighting youth, organized by Firefighting Association of Šibenik - Knin County and Voluntary Fire brigade Šibenik.

That was only one of a series of educational activities that will be held in organisation of Šibenik - Knin County HOLISTIC project team.



Educational and Awareness Campaign for elementary school children - Firefighting exercise Gruda



On June 11th 2015, Dubrovnik and Neretva Region and Firefighting Association Konavle, in collaboration with the National Directorate for Protection and Rescue and other emergency services from the Dubrovnik region, held the firefighting exercise Gruda 2015 at the elementary school Gruda. The exercise was organized as part of the project HOLISTIC which integral part is the organization of events that raise the level of awareness of fire prevention for inhabitants of different age groups including children of primary school age.

In addition to child training for proper treatment in the event of fire or explosion and implementation of the evacuation exercise, Gruda 2015 also served as additional training of fire brigades in fire fighting and evacuation of injured people.

The exercise involved 23 firefighters, 3 nurses, 6 vehicles and around sixty pupils from the elementary school Gruda.

Shortly before the exercise the representatives of the National Protection and Rescue Directorate gave lectures to pupils dedicated to possible fire risks in households, but also in the open areas. Members of professional and volunteer fire brigades answered to numerous questions asked by children. Representatives of the Dubrovnik and Neretva Region briefly presented project HOLISTIC.



Target Groups Education and Awareness – Seminar for local stakeholder Lido di Dante – Parco del Delta del Po

On 4th June 2015 in Lido di Dante (Ravenna) the Management Body for Parks and Biodiversity - PO Delta (FB11) held the seminar entitled “Policies and tools in the firefighting activities in Ravenna Area” addressed to local stakeholders as a part of the activities under WP8-Target Groups Education and Awareness.

Within the event the Holistic Project Team has presented the HOLISTIC project and pointed out the importance of local stakeholder in fire prevention and firefighting.

At the beginning of the seminar the firefighting vehicle keys, a Ford Ranger Super Cab XL (4x4) purchased within the equipment investments of the Holistic Project, were handed over by the President of the Management Body for Parks and Biodiversity, Dott. Massimo Medri, to the representative officer of the Corpo Forestale dello Stato CFS, Dott. Sergio Nannini.



Training drill in Tortoreto (Teramo) - 22-24 of May



A three days drill has been organised in Tortoreto (Teramo) by Europe Point Teramo Consortium on the 22nd-24th of May, along with intervention simulation, training, debate and meetings, in order to:

- provide civil protection volunteers with competences and needed tools in intervening in case of a seismic toss,
- test the efficiency of the organisational structure of Province of Teramo Civil protection.

It's been also an occasion to discuss and focus the key stakeholders attention on the crucial importance of the issues related to hydro geological instability and soil protection.

The composite drill, organized in collaboration with the Civil Protection of Val Vibrata, the volunteers service centre of Teramo and The Union of Municipalities of Val Vibrata, has been participated by hundreds of volunteers belonging to all the Civil Protection Associations in the province, which have been collected in the Headquarters set up for three days.

The event started on Friday the 22nd with a public debate organized to disseminate the goals of the drill and discussing on the state of the art of the experiences which have been enhanced in the framework of the implementation of Holistic Project.

Later, the same day it started the first simulation of a seismic toss (3.8 and 4.2 Richter) with general alarm, the arrival of emergencies corps in the headquarters, tents and camp kitchen positioning and first aids supply.

In the morning of the second day it's been launched the second alarm for a seismic toss of 5.7 magnitude (slightly less powerful than the one occurred in L'Aquila in the 2009) which will give the start to emergency operations and training in radio communication, emergency corps activation, and departure to the territories mostly interested by the earthquake.

At 8.50 several schools have been evacuated in Val Vibrata Territories and refugees have been accommodated in the base camp.

Later on there have been an exercitation on fire fighting operated by helicopter.

In the afternoon there took place a seminary on hydro geological instability in which intervened geologists Alessandro Venieri e Maurizio Rosa (Province of Teramo), Adriana Cavaglià (Regional Association of geologs), and Cosimo Golizia (President of European Disaster Manager).

The third day there took place a religious mess in the chapel set up in the camp participated by administrators and general public which preceded the disassembly of tents and structures.

Video link : <https://www.youtube.com/watch?v=ulhL0wi2f7k>



Holistic Project Partnership




CROATIA




ITALY




BOSNIA &
HERZEGOVINA




ALBANIA



Split Dalmatia
County



Marche Region -
Security and Civil
Protection



Government of
West-Herzegovina
Canton



Faculty of
Forest Sciences,
Agricultural
University of Tirana



Croatian Forest
Research
Institute



Veneto Region
Civil Protection



Civil Protection
and Fire Fighting
Administration of
Herzegovina Neretva
Canton



Croatian
Firefighting
Association



Ideas information innovator
consorzio punto europe



Šibenik-Knin
County



Molise Region -
Agriculture, Forestry and
Fishing Department



Zadar County



Management Body for
Parks and Biodiversity –
PO Delta



Dubrovnik
Neretva County



Friuli Venezia Giulia
Region - Civil Protection



Region of Istria




GREECE




MONTENEGRO




SERBIA




SLOVENIA



Decentralized
Administration
of Peloponnesus,
Western Greece
and Ionian



Municipality
of Cetinje



Republic of Serbia
Ministry of the Interior

Ministry of Interior of
the Republic of Serbia



Municipality
of Ajdovščina