

LIFE11 ENV GR 975

FLIRE: Floods and fire Risk assessment and management



## Action D4: Networking

# 2<sup>nd</sup> Networking Meeting Report

**30/09/2015**

<b>Project location</b>	Greece – Attiki region
<b>Project starting date:</b>	01/10/2012
<b>Project ending date:</b>	30/09/2015
<b>Coordinating Beneficiary</b>	National Technical University of Athens
<b>Associated Beneficiary responsible for Action D4</b>	National Technical University of Athens
<b>Contact person</b>	Chrysoula Papathanasiou
<b>Postal address</b>	5, Heron Polytechneiou str., 157 80, Zografou, Greece
<b>Telephone</b>	0030 210 7722816
<b>Fax :</b>	0030 210 7722416
<b>E-mail</b>	<a href="mailto:papathanasiou@chi.civil.ntua.gr">papathanasiou@chi.civil.ntua.gr</a>
<b>Other Associated Beneficiaries involved in Action D2</b>	ICL, IRPI-CNR, NOA, ALGOSYSTEMS S.A., FORTH
<b>Authors of the report</b>	George Eftychidis (ALGO), Chrysoula Papathanasiou (NTUA), Vassiliki Pagana (NTUA)

## Table of Contents

1. Summary.....	3
2. Networking Meetings on the sharing of know-how and promotion of the state of the art technology in the field of floods and fires risk assessment and management and collaboration with relevant projects.....	3
2.1 Networking meeting with NAGREF and NCSR.....	3
2.2 Networking meeting with H2020 Project URBANFLUXES.....	4
2.3 Networking meeting with EU Projects PREFER, ENTEC and National Projects EPADAP, AGROETAK.....	4
2.4 Networking meeting during the “Research & Technology Development Innovation projects (AgroETAK)”.....	5
2.5 Networking meeting during the event “LIFE 2015 Program”.....	5
2.6 Networking meeting with the Greek Aerospace.....	6
2.7 Networking meeting during HYMEX workshops.....	6
3. Networking Meetings on the potential adoption of FLIRE by other regions/institutions.....	7
3.1 Networking meeting with the Municipality of Rhodes.....	7
3.2 Networking meeting with KEMEA.....	7
3.3 Networking meeting with NCSR.....	8
3.4 Networking meeting with Municipality of Elliniko-Argyroupoli, Athens.....	8
3.5 Networking meeting with Northern Pindos National Park Management Authority.....	9
4. Networking during scientific conferences.....	9
5. Networking contacts.....	10
6. Conclusions.....	11

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**



## **1. Summary**

During this reporting period numerous networking activities took place between the FLIRE Project and other relevant projects. These networking activities include inter alia meetings and contacts with research organizations, researchers and public services dealing with flood and forest fire issues. These activities were organized in order to establish a network between the FLIRE project and other relevant projects, to promote the state of the art technology in the field of floods and fires risk assessment and management. Moreover, during these period many contacts with other regions and institutions were established, in order to present the FLIRE results and the potential to adopt the FLIRE Tool. To this end, researchers from several projects of relevance with FLIRE and representatives of centralized public services expressed their interest on the results of the FLIRE project, possible synergies and integration of FLIRE results with relevant work.

### ***2. Networking Meetings on the sharing of know-how and promotion of the state of the art technology in the field of floods and fires risk assessment and management and collaboration with relevant projects***

#### **2.1 Networking meeting with NAGREF and NCSR**

**Date:** 4/12/2014

**Place:** ALGOSYSTEMS SA, Athens

**Participants:** G.Eftychidis (ALGO), C.Papathanasiou (NTUA), V.Pagana (NTUA), G.Xanthopoulos (NAGREF), V.Varela (ALGO), T.Sfetsos (NCSR)

**Summary:** ALGO organized a meeting with NAGREF and NCSR for exchanging information and discussing further potential synergy of FLIRE with the INKA initiative of NAGREF, dealing with fire prevention campaigns to local communities, and the project ENTEC (Enhancing the Capacity for

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**



Environmental Technology and Climate Research) on seasonal fire risk assessment developed by NCSR-D, which can provide an extension to the fire risk estimation component of FLIRE (KBDI). The meeting was organized as a clustering session of the FLIRE project meeting.

## **2.2 Networking meeting with H2020 Project URBANFLUXES**

**Date:** 3/02/2015

**Place:** Herakleion (GREECE)

**Participants:** D. Poursanidis (FORTH), N. Chrysoulakis (FORTH), DLR, CESBIO, University of Reading, Universitat Basel, University of Goteborg, GEOI Ltd, ALTERRA.

**Summary:** During the kickoff meeting of the H2020 project “URBANFLUXES” ([www.urbanfluxes.eu](http://www.urbanfluxes.eu)), FORTH present the FLIRE DSS platform and its functionalities to the members of the project. The discussion on this was fruitful, as the architecture of the system can be adapted to other projects as well.

## **2.3 Networking meeting with EU Projects PREFER, ENTEC and National Projects EPADAP, AGROETAK**

**Date:** 26/3/2015

**Place:** Forest Research Institute (Athens)

**Participants:** FLIRE partners, Rafina-Pikermi stakeholders (Mayor and Technical service), Civil Protection Agency (GSCP), representatives of the Greek Fire Service, the Hellenic Meteorological Service and representatives of projects EPADAP, ENTEC and PREFER

**Summary:** ALGOSYSTEMS organized a one-day Networking Event titled: “Products and services for supporting fire prevention planning, firefighting and flood prevention after fire events”. The event was the fruit of clustering activity

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**



and interaction among the projects FLIRE (LIFE), PREFER (Copernicus), ENTEC (European Infrastructures), EPADAP (National project) and AGROETAK (National Project). The event facilitated the exchange of information regarding the activity and the achievements of the projects presented. In context of a round table organized at the end of the event the participants discussed potential integration of capabilities and focused synergies regarding various aspects of fire prevention and management.

#### ***2.4 Networking meeting during the “Research & Technology Development Innovation projects (AgroETAK)”***

**Date:** 09/06/2015

**Place:** Forest Research Institute (Athens)

**Participants:** Ioannis Mitsopoulos (ALGO), Giorgos Eftichidis (ALGO) and 76 attendees from Forest Service, researchers and freelance foresters

**Summary:** ALGO joined a research networking meeting organized by the FRIA concerning the “Research & Technology Development Innovation projects (AgroETAK)”, of the Operational Program “Human Resources Development” co-funded by the European Social Fund and by National Resources through the National Strategic Reference Framework 2007-2013. ALGO made an oral presentation of the aim and objectives of FLIRE, as well as of the way it is implemented and its future impact.

#### ***2.5 Networking meeting during the event “LIFE 2015 Program”***

**Date:** 16/6/2015

**Place:** Ministry of Economy, Infrastructure and Tourism, Athens **Participants:** G.Eftychidis (ALGO)

**Summary:** We have participated to the presentation of LIFE 2015 Program, organized by LIFE in Athens. During the event we exchanged information with other attendees and discussed FLIRE concept and achievements, in particular

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**



with representatives of the Ministry of Environment (Forest Service), the Aristotelian University of Thessaloniki and the Greek Cadaster Organization (KTI) and we distributed FLIRE brochures.

## **2.6 Networking meeting with the Greek Aerospace**

**Industry Date:** 14/7/2015

**Place:** DAIS Cultural Centre in Maroussi, Athens, Greece

**Participants:** N. Chrysoulakis (FORTH)

**Summary:** FORTH participated in a Networking Meeting of the Greek Aerospace Industry, which took place on the 14<sup>th</sup> of July 2015 at DAIS Cultural Centre in Maroussi, Athens (GREECE). During this meeting FORTH presented its activities and referred *inter alia* to the FLIRE Project as one of its Major Space Projects.

## **2.7 Networking meeting during HYMEX workshops**

**Date:** 21-22/9/2015

**Place:** Mykonos Island, Greece

**Participants:** K. Lagouvardos (NOA), V.Kotroni (NOA)

**Summary:** Dissemination to potentially interested scientific communities: The HYMEX workshops ([www.hymex.org](http://www.hymex.org)) are a very good candidate for such dissemination activities, since flash floods are among the top scientific priorities. Namely, more than 200 scientists (meteorologists and hydrologists, mainly from Mediterranean countries that face similar problems as those tackled by FLIRE) participate very actively in HYMEX. Already, in mid-September 2015, FLIRE results have been presented to the 9th HYMEX workshop.

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**



### **3. Networking Meetings on the potential adoption of FLIRE by other regions/institutions**

#### **3.1 Networking meeting with the Municipality of Rhodes**

**Date:** 1/4/2015

**Place:** AMBIO facilities, Athens

**Participants:** G.Eftychidis (ALGO), M. Theodorakakis (AMBIO), H.Argyris (Municipality of Rhodes)

**Summary:** ALGO organized a presentation of FLIRE solution to representatives of the Municipality of Rhodes and discussed eventual application of the FLIRE concept to Rhodes in the future. The representatives of the Municipality informed that they cooperate with the University of Aegean for similar purpose. However they declared their interest to the FLIRE concept to combine fires and floods (the Rhodes Island suffers from both hazards) and the conclusion of the discussion was that they will investigate such possibility in their eventual future plans.

#### **3.2 Networking meeting with KEMEA**

**Date:** 19/6/2015

**Place:** KEMEA facilities, Athens, Greece

**Participants:** G.Eftychidis (ALGO), V. Varela (ALGO), I.Mitsopoulos (ALGO), G.Leventakis (KEMEA), I.Gkotsis (KEMEA), L.Georgaklis (KEMEA) **Summary:** ALGO has arranged with KEMEA the pre-operational use of FLIRE system for testing purposes after the end of the LIFE project. During this meeting the current status and capabilities of the project were presented. Ways to extend the FLIRE application to other areas (Penteli) were discussed. KEMEA representatives presented their R&D activity concerning the use of unmanned platforms for supporting fire management decisions in context of the project FERMIS (Fire Event Remote Management Information System) that they work on. An interactive discussion between the representatives of the two projects (FLIRE & FERMIS) follow. The discussion focused to the

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**



possibility of integrating the achievements of the two projects (integrating UAV patrolling to areas defined in very high risk by FLIRE as well as providing low-altitude airborne information/mapping following a flood event).

### ***3.3 Networking meeting with NCSR D***

**Date:** 25/6/2015

**Place:** NCSR D Campus, Athens, Greece

**Participants:** G.Eftychidis (ALGO), V. Varela (ALGO), T.Sfetsos (NCSR D), N.Gounaris (NCSR D)

**Summary:** ALGO has arranged with NCSR D a discussion concerning the eventual use of a downscaled grid (2x2km) of meteorological information (in particular wind speed and direction), which could improve the fire propagation results of the GFMS simulator used in FLIRE DSS. The discussion concluded with some technical specifications to follow in order to test the integration of such meteo-grid data file to the fire propagation module of FLIRE. The integration didn't complete yet due to various technical problems addressed, however the FLIRE and the NCSR D teams continue to work to solve the problems.

### ***3.4 Networking meeting with Municipality of Elliniko-Argyroupoli, Athens***

**Date:** 22/7/2015

**Place:** Municipality of Elliniko-Argyroupolis, Athens

**Participants:** G.Eftychidis (ALGO), M.Pertselakis (Municipality of Elliniko-Argyroupolis), G.Kostantatos (Mayor of Elliniko-Argyroupolis)

**Summary:** Following the fire occurred the 17th of July 2015 at the area of Kareas (Attiki) ALGO provided (e-mailed) simulated results of the fire propagation produced using the FLIRE DSS to the Municipality of Elliniko-Argyroupolis (the Municipality which forest area was mostly affected by the fire). The people of the Municipality reacted asking to arrange a meeting to get more information, which was held the 22/7 in Argyroupolis. The conclusion of

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**





the discussion was that the Mayor asked to provide the technical service of the Municipality with the capability to use and test the FLIRE system for their area (for the 2016 fire season). The FLIRE consortium provided them with relative credentials to become users of the FLIRE DSS.

### ***3.5 Networking meeting with Northern Pindos National Park Management Authority***

**Date:** 20/08/2015

**Place:** Northern Pindos National Park, Konitsa, Greece

**Participants:** I.Mitsopoulos (ALGO),G.Mallinis (President of N.Pindos National Park) and 14 attendees, members of the Northern Pindos National Park Management Authority.

**Summary:** In the framework of the After LIFE communication plan, Ioannis Mitsopoulos from ALGO organized this networking meeting with the president and the executive managers of the Northern Pindos National Park Management Authority. The main scope of the meeting was to start a discussion for considering a potential adaptation of FLIRE system in the area. The Northern Pindos National Park Management Authority showed a significant interest in the FLIRE System approach and ALGO has been committed to demonstrate FLIRE main outputs and results during a dedicated event (workshop) the next months after the end of the project which will be organized by the Northern Pindos Mountain Park.

## ***4. Networking during scientific conferences***

Further to FLIRE networking meetings, the FLIRE consortium proceeded to networking activities during scientific conferences. These networking activities are listed below following a chronological order.

The Project was presented during the **EGU (European Geophysical Union) 2015 General Assembly at 12-17/04/2015**. In this conference, Mrs. Vassiliki

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**



Kotroni presented the work ***“Weather monitoring and forecasting over eastern Attica (Greece) in the frame of FLIRE project”***, in a poster.

Moreover, ALGO established networking activities during the **II International Conference on Fire Behaviour and Risk**. Alghero, Sardegna – Italy, 26-29 May 2015, presenting in a poster the work ***“Post Fire Debris Flow Potential in a Fire Prone Mediterranean Landscape”***. Similar networking activities were established during the **context of the SafeChania 2015 Conference** during which the Head of Forest Directorate of Chania Region expressed his interest on the exchange of information between FLIRE and Chania FD. In the same conference Mr. Dimitris Poursanidis presented the FLIRE DSS in an oral presentation ***“Web service systems for the management of natural disasters – The case study of the FLIRE DSS in urban and rural areas”***.

Another networking activity took place in the **International Conference on Changing Cities 2**, Porto Heli, Peloponnese – Greece 22 – 26 June 2015 in which the ***“Assessing post fire flood risk potential in a typical Mediterranean Wildland – Urban Interface of Greece”*** was presented.

Finally, products of the FLIRE Project were presented to the **13th International Symposium on Geo-disaster Reduction, Prague 09-11 August 2015** and to the **14th International Conference on Environmental Science and Technology (CEST 2015), 3-5 September 2015, Rhodes, Greece** by FORTH and NTUA respectively.

### ***5. Networking contacts***

NTUA proceeded to contacts with the Special Secretariat for Water (SSW) and the Directorate of Hydroelectric Production of the Public Power Corporation (PPC) S.A. in order to keep them updated on the flood-services of the FLIRE platform. Relevant contacts were established with high-profile design offices and companies that are active in flood risk management works in Greece, such as NAMA Consulting Engineers and Planners S.A. (which

**LIFE11 ENV GR 975**

**FLIRE: Floods and fire Risk assessment and management**



has undertaken the Flood Risk Management Plan of Attica), HYDROEXIGIANTIKI Consulting Engineers, MEYP Consultants, EPSILON International S.A., HYDROMENT S.A. and ALKOPLAN S.A.

## **6. Conclusions**

During this reporting period and following the general instructions included in the Article 13.9 of the Common Provisions, the FLIRE consortium participated in numerous networking activities, established contacts with projects of relevance to FLIRE, proceeded to scientific publications in conferences, during which additional networking activities were undertaken. Moreover, contacts established with representatives of other municipalities and institutions which is very important for the continuation of the Project in the After LIFE Period. Generally, the overall reaction of the other researches and representatives of the other municipalities, institutions and companies was particularly positive. Discussions during these meetings focused on the investigation of the possibility of using FLIRE beyond the level of the local municipalities and integrating the Project results with relevant work of other research teams in the same area. The networking activities will be continued intensively during the After LIFE period aiming to increase the dissemination of the FLIRE components and to enhance synergies.

**LIFE11 ENV GR 975**

**FLIRE: Floods and flre Risk assessment and management**

