LIFE11 ENV GR 975
FLIRE: Floods and flre Risk assessment and management

Technical Report

Action B8

31/12/2012

Project location	Greece – Attiki region
Project starting date:	01/10/2012
Project ending date:	30/09/2015
Coordinating Beneficiary	National Technical University of Athens

Associated Beneficiary responsible for Action B8	National Technical University of Athens
Contact person	Chrysoula Papathanasiou
Postal address	5, Heroon Polytechneiou str., 157 80, Zografou, Greece
Telephone	0030 210 7722816
Fax :	0030 210 7722416
E-mail	papathanasiou@chi.civil.ntua.gr
Other Associated Beneficiaries involved in Action B8	ICL, IRPI-CNR, NOA, ALGOSYSTEMS S.A., FORTH
Contact Persons	ICL: Cedo Maksimovic, Maria Aivazolglou, Callum Clench IRPI: Tomasso Moramarco, Silvia Barbetta, Luca Brocca NOA: Vassiliki Kotroni, Kostas Lagouvardos ALGOSYSTEMS S.A.: George Eftychidis FORTH: Nektarios Chrysoulakis, Dimitris Poursanidis

Name of the Action: Application of the tools

Starting date of the Action: 01/01/2015

Ending date of the Action: 30/09/2015

Short description of the Action

Aim

The aim of Action B.8 is the simultaneous application of the tools of the DSS Platform.

Objectives

The main objective of Action B.8 is the application of all the tools of the DSS Platform within the estimated time schedule. Therefore, the 9-month duration of this Action will serve as a safety margin for the sound completion of the final Implementation Action of the Project, so that any (unforeseen) problems that may arise during the implementation of the Action will be successfully addressed.

Expected outcomes

As foreseen in the submitter proposal, the expected outcomes of Action B.8 are:

- the integration of the DSS Tool (output of Action B.6) and the Planning Tool for Flood Management (output of Action B.7) in a common platform and
- the on-line application of the entire system

No constraints, deviations and/or amendment to the submitted proposal have been identified so far for Action B.8.

Tasks

1. Integration of the DSS Tool and the Planning Tool for flood management in a common platform (**FORTH**) [**High priority**]
2. Checking and validation of the successful operation of all the components of the platform for the specific data flow of the case study area (Weather Information Management Tool (**NOA**, **ICL**, **FORTH**), near real-time flood risk management tool (**NTUA**, **ICL**, **IRPI-CNR**, **FORTH**), near real-time forest fire risk assessment and management tool (**ALGOSYSTEMS S.A., FORTH**), and Planning Tool for flood management (**NTUA**, **ICL**, **IRPI-CNR**, **FORTH**) [**High priority**]
3. On-line availability of the outputs of the tools (**FORTH**) [**High priority**]

Working Team
NTUA

- **Maria Mimikou** – Project Coordinator, who will work on the coordination of the NTUA team.

- **Christos Makropoulos** – Internal Project Coordinator

- **Chrysoula Papathanasiou** – Civil Engineer, Hydrologist, flood modeler,

- **George Karavokiros** – Computer Scientist, expert in network modelling and

- **George Zombanakis** – Civil Engineer, expert in Hydroinformatics

These members of the NTUA team will all cooperate and work on:

- The checking and validation of the successful operation of the near real-time flood risk management tool within the DSS platform
- The checking and validation of the successful operation of the Planning Tool for flood management within the DSS platform

ICL

- **Čedo Maksimović** - head of the Urban Water Research Group (UWRG) within the Department of Civil and Environmental Engineering at Imperial College London, project coordinator, senior engineer, advise on flooding/flood protection

- **Maria Aivazoglou** - research and development on urban flood and intecations on forest fires,

- **Callum Clench** - project manager

These members of the ICL team will all cooperate and work on:

- The checking and validation of the successful operation of the Weather Information Management Tool within the DSS platform
- The checking and validation of the successful operation of the near real-time flood risk management tool within the DSS platform
- The checking and validation of the successful operation of the Planning Tool for flood management within the DSS platform

IRPI-CNR

- **Tommaso Moramarco** – Internal Project Coordinator,
- **Luca Brocca** – Environmental Engineer, Hydrologist, flood modeler,
- **Silvia Barbetta** – Environmental Engineer, Hydrologist, flood modeler and
- **Temporary Fellow Researcher** – Hydrologist, flood modeler

These members of the IRPI-CNR team will all cooperate and work on:

- The checking and validation of the successful operation of the near real-time flood risk management tool within the DSS platform
- The checking and validation of the successful operation of the Planning Tool for flood management within the DSS platform

NOA

- **Vassiliki Kotroni** – Internal Project Coordinator, Research Director, Meteorologist,
- **Konstantinos Lagouvardos** – Research Director, Meteorologist, atmospheric modeler

These members of the NOA team will cooperate and work on:

- The checking and validation of the successful operation of the Weather Information Management Tool within the DSS platform

ALGOSYSTEMS S.A.

- **George Eftychidis** – Forester, Forest fire behaviour analyst, who will work
- **Vassiliki Varela** – Forester, Forest fire modeler, GIS programming expert
- **Crhistos Pateritsas,** Electrical engineer and Computer Science expert
- **Minas Pertselakis,** Electrical engineer and Computer Science expert

These members of the ALGO team will work on:

- testing and validating the successful integration and functionality of operating the near real-time forest fire risk assessment and fire propagation simulation tool within the DSS platform

FORTH

- **George Kogxylakis** – Geo-informatics/Database developemt who will:

- design and develop the FLIRE DSS
- provide platform and system specifications
- work on the Integration of the DSS Tool and the planning tool for flood management in a common platform
- work on the checking and validation of the operation of all the components of the DSS Tool for the specific data flow of the case study area

- **Poulicos Prastacos** – Civil Engineer/GIS who will:
  - coordinate the planning tool integration procedure in the DSS
  - analyze system requirements
  - analyze the system-models interactions
  - support the DSS conceptual design

- **Nektarios Chrysoulakis** - Physics / Remote Sensing who will:
  - coordinate the FORTH team
  - analyze system requirements
  - analyze the system-models interactions
  - support the DSS development

- **Dimitris Poursanidis** - Environmental Science / Cartographer who will:
  - Support the DSS development
  - Develop the system geo-database

- **Nikos Manioudakis** - Physics / GIS who will:
  - Support the DSS development and its host at FORTH Server

Deliverables

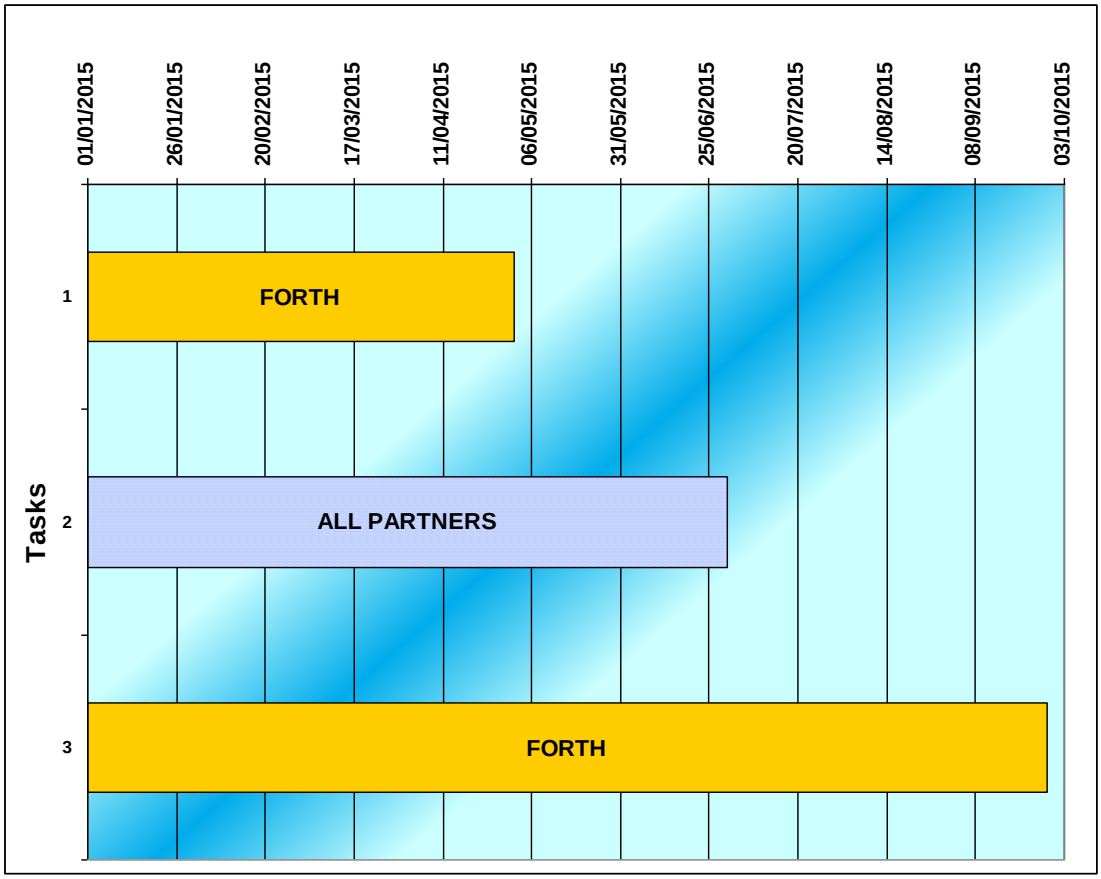
In the submitted proposal, no deliverables were reported for the Implementation Action B.8.

Milestones

The Implementation Action B.8 has one milestone, the ***"Completion of the complete platform prototype"*** that has to be ready by **31/08/2015**.

The steps towards this completion are presented in detail in the previous fields "Short description of the Action" and "Tasks".

Gantt-chart



Key references