Geospatial based Environment for Optimisation Systems Addressing Fire Emergencies

Fact Sheet

Project Information

GEO-SAFE
Grant agreement ID: 691161
Closed project

Funded under
H2020-EU.1.3.3.

Overall budget
€ 1 386 000

EU contribution
€ 1 080 000

Coordinated by
UNIVERSITY OF GREENWICH
United Kingdom

Start date
1 May 2016
End date
30 April 2020

Objective

In EU and Australia, every year thousands of square miles of forests and other lands burn due to wildfires. These fires cause important economic and ecological losses, and often, human casualties. Both EU and Australian governments are aware of how crucial it is to improve wildfires’ management and containment. Scientists from different specialties, both in EU and Australia, have already developed methods and models in order to improve the management and decision process pertaining to preparedness and response phases in case of bushfire. The present project, named Geospatial based Environment for Optimisation Systems Addressing Fire Emergencies (GEO SAFE), aims at creating a network enabling the two regions to exchange knowledge, ideas and experience, thus boosting the progress of wildfires knowledge and the related development of innovative methods for dealing efficiently
More precisely, the GEO SAFE project will focus on developing the tools enabling to set up an integrated decision support system optimizing the resources during the response phase, through:

- Developing a dynamic risk cartography of a region with regard to the possibility of a wildfire. The task will involve data collection (satellite and remote sensors), risk analysis and development of a tool enabling to forecast fire extension i, and in particular to predict fire and risk evolution during the response phase.
- Designing and testing a resource allocation tool for the response phase using the dynamic risk cartography. One of the problems to consider will be the resource allocation for securing key places (schools, hospitals, …) given time dependent constraints. Problems will be identified through connections with final users, and the proposed solutions will be tested on simulated data.
- Developing analyses of relevant management processes as well as training tools in order to facilitate the implementation of such solution to be completed.

**Fields of science**

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**Programme(s)**

**Topic(s)**

**Call for proposal**

H2020-MSCA-RISE-2015

**Funding Scheme**

**Coordinator**

UNIVERSITY OF GREENWICH

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<td>Royal Naval College</td>
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Participants (16)

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<td>Piazza Santa Margherita 2, 67100 L'Aquila</td>
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<tr>
<td>UNIVERSITEIT TWENTE</td>
<td>Netherlands</td>
<td>€ 108 000</td>
<td>Drienerlolaan 5, 7522 NB Enschede</td>
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EU contribution

€ 36 000

Address
Centre Francis Arrighi, Domaine De Valabre 13120 Gardanne

Contact the organisation

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
France
EU contribution
€ 81 000
Address
Rue Michel -Ange 3 75794 Paris

Website
Contact the organisation

FUNDACIO D'ECOLOGIA DEL FOC I GESTIO D'INCENDIS PAU COSTA ALCUBIERRE
Spain
EU contribution
€ 144 000
Address
Av. Mossen Cinto Verdaguer, 42 Esc A, Planta Bx, P 08552 Taradell

Contact the organisation

UNIVERSIDAD COMPLUTENSE DE MADRID
Spain
EU contribution
€ 144 000
Address
Avenida Seneca 2 Edificio Seneca 28040 Madrid

Website
Contact the organisation

UNIVERSITE DE GENEVE
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<td>Rue Du Docteur Schweitzer Cs 60319 Centre Pierre Guillaumat 60203 Compiegne Cedex</td>
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5 of 8
France
EU contribution
€ 54,000

Address
Place Du Marechal De Lattre
De Tass Igny
75775 Paris Cedex 16

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

France
EU contribution
€ 4,500

Address
20 Quai Frissard
76600 Le Havre

Activity type
Other

Contact the organisation

Spain
EU contribution
€ 54,000

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Av. Manuel Siurot, 50
41071 Sevilla

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation

Italy
EU contribution
€ 31,500

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Corso Duca Degli Abruzzi 24
10129 Torino

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation

Spain
EU contribution
€ 54,000

Address
Av. Manuel Siurot, 50
41071 Sevilla

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation
MINISTERO DELL’INTERNO
Italy
EU contribution
€ 27 000

Address                      Activity type
Piazza Del Viminale 1        Public bodies (excluding
00184 Rome                  Research Organisations and
                            Secondary or Higher
                            Education Establishments)

Website Contact the organisation

Partners (3)

ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY*RMIT UNIVERSITY
Australia
Address                      Activity type
La Trobe Street 124          Higher or Secondary
3001 Melbourne               Education Establishments

Contact the organisation

BUSHFIRE AND NATURAL HAZARDS CRC LIMITED
Australia
Address                      Activity type
Level 1 340 Albert St        Research Organisations
3002 East Melbourne

Contact the organisation

UNIVERSITY OF MELBOURNE
Australia
Address                      Activity type
Parkville Office Of The Vice
Chancellor
3010 Melbourne

Website Contact the organisation