Geospatial based Environment for Optimisation Systems Addressing Fire Emergencies

Fact Sheet

Project Information

GEO-SAFE
Grant agreement ID: 691161

Funded under
EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost
€ 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 with such fires.

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, 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 solutions.

Fields of science

natural sciences > earth and related environmental sciences > physical geography > cartography
engineering and technology > electrical engineering, electronic engineering, information engineering > information engineering > telecommunications > telecommunications networks
social sciences > sociology > governance > crisis management
social sciences > political sciences > political policies > civil society
natural sciences > mathematics > applied mathematics > mathematical model

Programme(s)

H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

H2020-EU.1.3.3. - Stimulating innovation by means of cross-fertilisation of knowledge

Topic(s)

MSCA-RISE-2015 - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

Call for proposal

H2020-MSCA-RISE-2015

See other projects for this call
Funding Scheme

MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

Coordinator

UNIVERSITY OF GREENWICH
Net EU contribution
€ 166 500,00

Address
Park Row Greenwich Old Royal Naval College
SE10 9LS London
United Kingdom

Region
London > Outer London — East and North East > Bexley and Greenwich

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 49 500,00

Participants (16)

UNIVERSITA DEGLI STUDI DELL'AQUILA
Italy
Net EU contribution
€ 45 000,00

Address
Piazza Santa Margherita 2
67100 L'Aquila

Region
Sud > Abruzzo > L’Aquila
Universiteit Twente

Netherlands

Net EU contribution

€ 108 000,00

Address

Drienerlolaan 5
7522 NB Enschede

Region

Oost-Nederland > Overijssel > Twente

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation  
Website  
Participation in EU R&I programmes  
HORIZON collaboration network

Other funding

€ 103 500,00

Service Départemental d'Incendie et de Secours de la Haute-Corse

France

Net EU contribution

€ 54 000,00

Address

Lieu Dit Casetta
20600 Furiani
Region
Corse > Corse > Haute-Corse

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

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 31 500,00

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ENTENTE POUR LA FORÊT MÉDITERRANÉENNE

France
Net EU contribution
€ 36 000,00

Address
Centre Francis Arrighi, Domaine De Valabre
13120 Gardanne

Region
Provence-Alpes-Côte d’Azur > Provence-Alpes-Côte d’Azur > Bouches-du-Rhône

Activity type
Research Organisations

Links
Contact the organisation Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 9 000,00

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CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

France
Net EU contribution
€ 81 000,00

Address
Rue Michel Ange 3
75794 Paris

Region
Ile-de-France > Ile-de-France > Paris

Activity type
Research Organisations

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 18 000,00

FUNDACIO D'ECOLOGIA DEL FOC I GESTIO D'INCENDIS PAU COSTA ALCUBIERRE

Spain

Net EU contribution
€ 144 000,00

Address
Av. Mossen Cinto Verdaguer, 42 Esc A, Planta Bx, P 08552 Taradell

SME
Yes

Region
Este > Cataluña > Barcelona

Activity type
Research Organisations

Links
Contact the organisation Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 18 000,00
UNIVERSIDAD COMPLUTENSE DE MADRID
Spain
Net EU contribution
€ 144 000,00
Address
Avenida De Seneca 2
28040 Madrid
Region
Comunidad de Madrid > Comunidad de Madrid > Madrid
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 40 500,00

UNIVERSITE DE GENEVE
Switzerland
Net EU contribution
€ 13 500,00
Address
Rue Du General Dufour 24
1211 Geneve
Region
Schweiz/Suisse/Svizzera > Région lémanique > Genève
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
UNIVERSITA DEGLI STUDI DI PERUGIA

Italy

Net EU contribution

€ 45 000,00

Address

Piazza Dell Universita 1
06123 Perugia

Region

Centro (IT) > Umbria > Perugia

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

UNIVERSITE CLERMONT AUVERGNE

France

Net EU contribution

€ 45 000,00

Address

49 Bd Francois Mitterrand
63000 Clermont Ferrand

Region

Auvergne-Rhône-Alpes > Auvergne > Puy-de-Dôme

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation
UNIVERSITE DE TECHNOLOGIE DE COMPIEGNE

France

Net EU contribution
€ 27 000,00

Address
Rue Du Docteur Schweitzer Cs 60319 Centre Pierre Guillaumat
60203 Compiègne Cedex

Region
Hauts-de-France > Picardie > Oise

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

UNIVERSITE PARIS DAUPHINE

France

Net EU contribution
€ 54 000,00

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

Region
Ile-de-France > Ile-de-France > Paris

Activity type
Higher or Secondary Education Establishments
ECOLE DE MANAGEMENT DE NORMANDIE

France

Net EU contribution
€ 4 500,00

Address
20 Quai Frissard
76600 Le Havre

Region
Normandie > Haute-Normandie > Seine-Maritime

Activity type
Other

SECRETARÍA GENERAL DE MEDIO AMBIENTE, AGUA Y CAMBIO CLIMÁTICO

Spain

Net EU contribution
€ 54 000,00

Address
Av. Manuel Siurot, 50
41071 Sevilla

Region
Andalucía > Sevilla
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

POLITECNICO DI TORINO
Italy
Net EU contribution
€ 31 500,00
Address
Corso Duca Degli Abruzzi 24
10129 Torino
Region
Nord-Ovest > Piemonte > Torino
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

MINISTERO DELL'INTERNO
Italy
Net EU contribution
€ 27 000,00
Address
Piazza Del Viminale 1
00184 Rome
Partners (3)

ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY* RMIT UNIVERSITY
Australia

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

Address
La Trobe Street 124
3001 Melbourne

BUSHFIRE AND NATURAL HAZARDS CRC LIMITED
Australia
Net EU contribution
€ 0,00

Address
Level 1 340 Albert St
3002 East Melbourne

SME
Yes

Activity type
Research Organisations

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 72 000,00

PARTNER

UNIVERSITY OF MELBOURNE
Net EU contribution
€ 0,00

Address
Parkville Office Of The Vice Chancellor
3010 Melbourne

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 90 000,00

EC signature date: 1 December 2015