Geospatial based Environment for Optimisation Systems Addressing Fire Emergencies

**Fact Sheet**

<table>
<thead>
<tr>
<th>Project Information</th>
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<tbody>
<tr>
<td>GEO-SAFE</td>
<td>Funded under H2020-EU.1.3.3.</td>
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<tr>
<td>Grant agreement ID: 691161</td>
<td>Overall budget € 1 386 000</td>
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<td>EU contribution € 1 080 000</td>
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<td>Coordinated by UNIVERSITY OF GREENWICH United Kingdom</td>
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<td>Start date 1 May 2016</td>
<td>End date 30 April 2020</td>
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**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, 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 to be completed.

Fields of science

- engineering and technology ➔ electrical engineering, electronic engineering, information engineering ➔ information engineering ➔ telecommunications ➔ telecommunications networks
- civil society
- engineering and technology ➔ medical engineering ➔ medical laboratory technology
- mathematical model
- natural sciences ➔ earth and related environmental sciences ➔ physical geography ➔ cartography

Programme(s)

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
Coordinator

UNIVERSITY OF GREENWICH

Address
Park Row Greenwich Old
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SE10 9LS London

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Activity type
Higher or Secondary Education Establishments

EU contribution
€ 166 500

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Activity type
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EU contribution
€ 45 000

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EU contribution
€ 108 000

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SERVICE DÉPARTEMENTAL D'INCENDIE ET DE SECOURS DE LA HAUTE-CORSE

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EU Contribution: € 54,000

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

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EU Contribution: € 36,000

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€ 45 000

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€ 27 000

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ECOLE DE MANAGEMENT DE NORMANDIE

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Other

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€ 54 000

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Activity type
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POLITECNICO DI TORINO
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<td>MINISTERO DELL'INTERNO</td>
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<tr>
<td>ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY* RMIT UNIVERSITY</td>
<td>Australia</td>
<td>Higher or Secondary Education Establishments</td>
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<td>BUSHFIRE AND NATURAL HAZARDS CRC LIMITED</td>
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</table>
UNIVERSITY OF MELBOURNE
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Parkville Office Of The Vice Chancellor
3010 Melbourne

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Higher or Secondary Education Establishments

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