

## Horizon 2020

### Call: H2020-SEC-2016-2017 (SECURITY)

### Topic: SEC-21-GM-2016-2017

### Type of action: CSA (Coordination and support action)

### Proposal number: 740575

### Proposal acronym: FIRE-IN

### Deadline Id: H2020-SEC-2016-2017-1

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#### How to fill in the forms

The administrative forms must be filled in for each proposal using the templates available in the submission system. Some data fields in the administrative forms are pre-filled based on the previous steps in the submission wizard.

Proposal ID **740575**

Acronym **FIRE-IN**

## 1 - General information

Topic SEC-21-GM-2016-2017

Call Identifier H2020-SEC-2016-2017

Type of Action CSA

Deadline Id H2020-SEC-2016-2017-1

Acronym FIRE-IN

Proposal title\* FIRE-IN - Fire and Rescue Innovation Network

Note that for technical reasons, the following characters are not accepted in the Proposal Title and will be removed: < > " &

Duration in months 60

Fixed keyword 1 Civil first responders protection

Add

Fixed keyword 2 Secure Societies

Add

Remove

Fixed keyword 3 Protection of citizens (goods and people)

Add

Remove

Fixed keyword 4 Protection of areas and infrastructures

Add

Remove

Fixed keyword 5 Chemical, Biological, Radiological and Nuclear (CBRN) protection

Add

Remove

Fixed keyword 6 Crisis management

Add

Remove

Free keywords Fire and rescue, civil protection, first responders, capability development, practitioners, innovation, research, test and demonstration, training



Proposal ID **740575**

Acronym **FIRE-IN**

## Abstract

*FIRE-IN has been designed to raise the security level of EU citizens by improving the national and European Fire & Rescue (F&R) capability development process. FIRE-IN addresses the concern that capability-driven research and innovation in this area needs much stronger guidance from practitioners and better exploitation of the technology potentially available for the discipline. We argue that this is to be achieved by practitioners more effectively coordinating on operational needs, on available research and innovation, on standardisation, and on test & demonstration and training. Further, we claim the need for the development of a common research culture that is to be achieved by better cooperation between practitioner and research/industry organisations. FIRE-IN addresses these objectives through four main areas of activity: (i) the identification and harmonisation of operational capability gaps based on the contribution provided by a significant and heterogeneous practitioner network, (ii) the identification of promising solutions to address those gaps through monitoring and screening of research outcomes and the continuous involvement of research and industry representatives, (iii) the definition of a F&R Strategic Research and Standardisation Agenda (SRSA) based on the previous elements as well as (iv) the development of a concept for more efficient use of test & demonstration and training facilities to support innovation and joint skill development.*

*The overarching result of the project will be a proven process for organising F&R capability-driven research based on a wide practitioner and research and innovation network. The network will be linked at cross-domain and cross-border level and will feed harmonised operational requirements (or challenges) into national and EU capability development, i.e. research, innovation, procurement and standardisation programmes.*

Remaining characters

94

Has this proposal (or a very similar one) been submitted in the past 2 years in response to a call for proposals under the 7th Framework Programme, Horizon 2020 or any other EU programme(s)?

☐ Yes ☒ No



Proposal ID **740575**

Acronym **FIRE-IN**

### Declarations

1) The coordinator declares to have the explicit consent of all applicants on their participation and on the content of this proposal.	<input checked="" type="checkbox"/>
2) The information contained in this proposal is correct and complete.	<input checked="" type="checkbox"/>
3) This proposal complies with ethical principles (including the highest standards of research integrity — as set out, for instance, in the <a href="#">European Code of Conduct for Research Integrity</a> — and including, in particular, avoiding fabrication, falsification, plagiarism or other research misconduct).	<input checked="" type="checkbox"/>
4) The coordinator confirms:	
- to have carried out the self-check of the financial capacity of the organisation on <a href="http://ec.europa.eu/research/participants/portal/desktop/en/organisations/lfv.html">http://ec.europa.eu/research/participants/portal/desktop/en/organisations/lfv.html</a> or to be covered by a financial viability check in an EU project for the last closed financial year. Where the result was “weak” or “insufficient”, the coordinator confirms being aware of the measures that may be imposed in accordance with the H2020 Grants Manual (Chapter on Financial capacity check); or	<input checked="" type="radio"/>
- is exempt from the financial capacity check being a public body including international organisations, higher or secondary education establishment or a legal entity, whose viability is guaranteed by a Member State or associated country, as defined in the H2020 Grants Manual (Chapter on Financial capacity check); or	<input type="radio"/>
- as sole participant in the proposal is exempt from the financial capacity check.	<input type="radio"/>
5) The coordinator hereby declares that each applicant has confirmed:	
- they are fully eligible in accordance with the criteria set out in the specific call for proposals; and	<input checked="" type="checkbox"/>
- they have the financial and operational capacity to carry out the proposed action.	<input checked="" type="checkbox"/>
The coordinator is only responsible for the correctness of the information relating to his/her own organisation. Each applicant remains responsible for the correctness of the information related to him/her and declared above. Where the proposal to be retained for EU funding, the coordinator and each beneficiary applicant will be required to present a formal declaration in this respect.	

According to Article 131 of the Financial Regulation of 25 October 2012 on the financial rules applicable to the general budget of the Union (Official Journal L 298 of 26.10.2012, p. 1) and Article 145 of its Rules of Application (Official Journal L 362, 31.12.2012, p.1) applicants found guilty of misrepresentation may be subject to administrative and financial penalties under certain conditions.

#### Personal data protection

The assessment of your grant application will involve the collection and processing of personal data (such as your name, address and CV), which will be performed pursuant to Regulation (EC) No 45/2001 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movement of such data. Unless indicated otherwise, your replies to the questions in this form and any personal data requested are required to assess your grant application in accordance with the specifications of the call for proposals and will be processed solely for that purpose. Details concerning the purposes and means of the processing of your personal data as well as information on how to exercise your rights are available in the [privacy statement](#). Applicants may lodge a complaint about the processing of their personal data with the European Data Protection Supervisor at any time.

Your personal data may be registered in the Early Detection and Exclusion system of the European Commission (EDES), the new system established by the Commission to reinforce the protection of the Union's financial interests and to ensure sound financial management, in accordance with the provisions of articles 105a and 108 of the revised EU Financial Regulation (FR) (Regulation (EU, EURATOM) 2015/1929 of the European Parliament and of the Council of 28 October 2015 amending Regulation (EU, EURATOM) No 966/2012) and articles 143 - 144 of the corresponding Rules of Application (RAP) (COMMISSION DELEGATED REGULATION (EU) 2015/2462 of 30 October 2015 amending Delegated Regulation (EU) No 1268/2012) for more information see the [Privacy statement for the EDES Database](#).

Proposal ID **740575**

Acronym **FIRE-IN**

## List of participants

#	Participant Legal Name	Country
1	ASSOCIATION PEGASE	France
2	ECOLE NATIONALE SUPERIEURE DES OFFICIERS DE SAPEURS-POMPIERS	France
3	MINISTERO DELL'INTERNO	Italy
4	BUNDESMINISTERIUM DES INNERN	Germany
5	MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV	Germany
6	EUROPEAN VIRTUAL INSTITUTE FOR INTEGRATED RISK MANAGEMENT EU VRI EWIV	Germany
7	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	Germany
8	FUNDACIO D'ECOLOGIA DEL FOC I GESTIO D'INCENDIS PAU COSTA ALCUBIERRE	Spain
9	Departament d'Interior - Generalitat de Catalunya	Spain
10	CENTRUM NAUKOWO-BADAWCZE OCHRONY PRZECIWPOZAROWEJ IM. JOZEFA TULISZKOWSKIEGO - PANSTWOWY INSTYTUT BADAWCZY	Poland
11	THE MAIN SCHOOL OF FIRE SERVICE	Poland
12	THE COUNCIL OF THE BALTIC SEA STATES SECRETARIAT	Sweden
13	MYNDIGHETEN FOR SAMHALLSSKYDD OCH BEREDSKAP	Sweden
14	KENTRO MELETON ASFALIAS	Greece
15	CESKA ASOCIACE HASICKYCH DUSTOJNIKU SDRUZENI	Czech Republic
16	INNO TSD	France



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **Pegase**

## 2 - Administrative data of participating organisations

PIC	Legal name
960414461	ASSOCIATION PEGASE

Short name: *Pegase*

Address of the organisation

Street AV LOUIS PHILIBERT DOMAINE DU PETIT AR

Town AIX EN PROVENCE

Postcode 13545

Country France

Webpage www.pole-pegase.com

Legal Status of your organisation

### Research and Innovation legal statuses

Public body .....	no	Legal person .....	yes
Non-profit .....	yes		
International organisation .....	no		
International organisation of European interest .....	no		
Secondary or Higher education establishment .....	no		
Research organisation .....	no		

### Enterprise Data

SME self-declared status.....2014 - yes  
SME self-assessment .....2014 - yes  
SME validation sme..... unknown

Based on the above details of the Beneficiary Registry the organisation is an SME (small- and medium-sized enterprise) for the call.

NACE Code: - - Not applicable



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **Pegase**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

*Please enter street name and number.*

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **Pegase**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex

☒ Male

☐ Female

First name **Jean-Michel**

Last name **Dumaz**

E-Mail **jean-michel.dumaz@safeccluster.com**

Position in org.

Defense and security program manager

Department

ASSOCIATION PEGASE

☒ Same as organisation

☒ Same as organisation address

Street

AV LOUIS PHILIBERT DOMAINE DU PETIT ARBOIS POLE DE COMPETITI

Town

AIX EN PROVENCE

Post code

13545

Country

France

Website

www.safeccluster.com

Phone 1

+33 (0)4 42 12 30 50

Phone 2

+33 (0)6 08 41 01 46

Fax

+XXX XXXXXXXXX

### Other contact persons

First Name	Last Name	E-mail	Phone
Alice	CLEMENCEAU	alice.clemenceau@safeccluster.com	+33 (0)4 42 12 30 50
Laura	CAREL	laura.carel@safeccluster.com	+33 (0)4 42 12 30 50



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **ENSOSP**

**PIC**

961486408

**Legal name**

ECOLE NATIONALE SUPERIEURE DES OFFICIERS DE SAPEURS-POMPIERS

*Short name: ENSOSP*

*Address of the organisation*

Street 1070 RUE DU LIEUTENANT PARAYRE

Town AIX EN PROVENCE

Postcode 13798

Country France

Webpage <http://www.ensosp.fr>

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... yes

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... yes

**Enterprise Data**

SME self-declared status ..... 2013 - no

SME self-assessment ..... unknown

SME validation sme ..... unknown

**Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.**

NACE Code: 80.4 - Adult & other education



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **ENSOSP**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

*Please enter street name and number.*

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **ENSOSP**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mrs

Sex



Male



Female

First name **Audrey**

Last name **MOREL SENATORE**

E-Mail **audrey.senatore@ensosp.fr**

Position in org.

Responsible of the CERISC (Civil protection researches Centre)

Department

ECOLE NATIONALE SUPERIEURE DES OFFICIERS DE SAPEURS-POMP



Same as organisation



Same as organisation address

Street

1070 RUE DU LIEUTENANT PARAYRE

Town

AIX EN PROVENCE

Post code

13798

Country

France

Website

http://www.ensosp.fr

Phone 1

+33 442390528

Phone 2

+XXX XXXXXXXXXX

Fax

+XXX XXXXXXXXXX

### Other contact persons

First Name	Last Name	E-mail	Phone
Marc	Lopez	marc.lopez@ensosp.fr	+33442390526



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MINISTERO DELL'INTERNO**

**PIC**

999816540

**Legal name**

MINISTERO DELL'INTERNO

Short name: *MINISTERO DELL'INTERNO*

*Address of the organisation*

Street Piazza del Viminale 1

Town ROME

Postcode 00184

Country Italy

Webpage <http://www.interno.it>

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... yes

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... no

**Enterprise Data**

SME self-declared status ..... unknown

SME self-assessment ..... unknown

SME validation sme ..... unknown

Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

NACE Code: -



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MINISTERO DELL'INTERNO**

### Department(s) carrying out the proposed work

#### Department 1

Department name

☐ not applicable

☒ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
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Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MINISTERO DELL'INTERNO**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex

☒ Male

☐ Female

First name **Stefano**

Last name **Marsella**

E-Mail **stefano.marsella@vigilfuoco.it**

Position in org.

Dirigente Superiore

Department

Dipartimento Vigili del Fuoco, Soccorso Pubblico e Difesa Civile

☐ Same as organisation

☒ Same as organisation address

Street

Piazza del Viminale 1

Town

ROME

Post code

00184

Country

Italy

Website

www.vigilfuoco.it

Phone 1

+3906570641

Phone 2

+XXX XXXXXXXXXX

Fax

+XXX XXXXXXXXXX



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **BUNDESMINISTERIUM DES INNERN**

**PIC**

996616995

**Legal name**

BUNDESMINISTERIUM DES INNERN

Short name: *BUNDESMINISTERIUM DES INNERN*

*Address of the organisation*

Street ALT-MOABIT 101

Town BERLIN

Postcode 10559

Country Germany

Webpage

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... yes

Legal person ..... yes

Non-profit ..... yes

International organisation ..... unknown

International organisation of European interest ..... unknown

Secondary or Higher education establishment ..... unknown

Research organisation ..... unknown

**Enterprise Data**

SME self-declared status ..... unknown

SME self-assessment ..... unknown

SME validation sme ..... unknown

Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

NACE Code: -



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **BUNDESMINISTERIUM DES INNERN**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
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Proposal ID **740575**

Acronym **FIRE-IN**

Short name **BUNDESMINISTERIUM DES INNERN**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex

☒ Male

☐ Female

First name **Klaus-Dieter**

Last name **Büttgen**

E-Mail **klaus-dieter.buettgen@thw.de**

Position in org.

Project Manager

Department

BUNDESMINISTERIUM DES INNERN

☒ Same as organisation

☒ Same as organisation address

Street

ALT-MOABIT 101

Town

BERLIN

Post code

10559

Country

Germany

Website

Phone 1

Phone 2

+XXX XXXXXXXXXX

Fax

+XXX XXXXXXXXXX



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MPG**

**PIC**

999990267

**Legal name**

MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV

*Short name: MPG*

*Address of the organisation*

Street HOFGARTENSTRASSE 8

Town MUENCHEN

Postcode 80539

Country Germany

Webpage www.mpg.de

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... no

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... yes

**Enterprise Data**

SME self-declared status ..... 2015 - no

SME self-assessment ..... 2015 - no

SME validation sme ..... 2007 - no

**Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.**

NACE Code: 721 - Research and experimental development on natural sciences and engineering



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MPG**

### Department(s) carrying out the proposed work

#### Department 1

Department name

☐ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MPG**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Sex ☒ Male ☐ Female

First name **Johann Georg**

Last name **Goldammer**

E-Mail **johann.goldammer@fire.uni-freiburg.de**

Position in org.

Department

☐ Same as organisation

☐ Same as organisation address

Street

Town

Post code

Country

Website

Phone 1

Phone 2

Fax

### Other contact persons

First Name	Last Name	E-mail	Phone
Madlin	Junkers	madlin.junkers@mpic.de	+49-6131-305-1040



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **EUROPEAN VIRTUAL INSTITUTE FOR INTE**

**PIC**

999967375

**Legal name**

EUROPEAN VIRTUAL INSTITUTE FOR INTEGRATED RISK MANAGEMENT EU VRI EWIV

Short name: EUROPEAN VIRTUAL INSTITUTE FOR INTEGRATED RISK MANAGEMENT EU VRI EWIV

Street WILLI BLEICHER STR 19

Town STUTTGART

Postcode 70174

Country Germany

Webpage www.eu-vri.eu

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... no

Legal person ..... yes

Non-profit ..... no

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... no

**Enterprise Data**

SME self-declared status ..... 2013 - yes

SME self-assessment ..... 2013 - yes

SME validation sme ..... 2007 - yes

Based on the above details of the Beneficiary Registry the organisation is an SME (small- and medium-sized enterprise) for the call.

NACE Code: - - Not applicable



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **EUROPEAN VIRTUAL INSTITUTE FOR INTE**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **EUROPEAN VIRTUAL INSTITUTE FOR INTE**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex

☒ Male

☐ Female

First name **Olivier**

Last name **Salvi**

E-Mail **salvi@eu-vri.eu**

Position in org.

Non-executive General Manager

Department

EUROPEAN VIRTUAL INSTITUTE FOR INTEGRATED RISK MANAGEMEN

☒ Same as organisation

☒ Same as organisation address

Street

WILLI BLEICHER STR 19

Town

STUTTGART

Post code

70174

Country

Germany

Website

www.eu-vri.eu

Phone 1

+49 711 410041 30

Phone 2

+4971191241215

Fax

+49 711 410041 24

### Other contact persons

First Name	Last Name	E-mail	Phone
Bastien	Caillard	caillard@eu-vri.eu	+49 711 410041 04
Michael	Loescher	ml@eu-vri.eu	+49 711 410041 04



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **FRAUNHOFER GESELLSCHAFT ZUR FOER**

**PIC**

999984059

**Legal name**

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

*Short name: FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.*

Street HANSASTRASSE 27C

Town MUNCHEN

Postcode 80686

Country Germany

Webpage www.fraunhofer.de

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... no

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... yes

**Enterprise Data**

SME self-declared status ..... 2007 - no

SME self-assessment ..... unknown

SME validation sme ..... 2007 - no

**Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.**

NACE Code: 721 - Research and experimental development on natural sciences and engineering



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **FRAUNHOFER GESELLSCHAFT ZUR FOER**

### Department(s) carrying out the proposed work

#### Department 1

Department name

☐ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
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Proposal ID **740575**

Acronym **FIRE-IN**

Short name **FRAUNHOFER GESELLSCHAFT ZUR FOER**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Dr.

Sex

☐ Male

☒ Female

First name **Merle**

Last name **Missoweit**

E-Mail **merle.missoweit@int.fraunhofer.de**

Position in org.

Group Manager

Department

Fraunhofer INT

☐ Same as organisation

☐ Same as organisation address

Street

Appelsgarten 2

Town

Euskirchen

Post code

53879

Country

Germany

Website

www.int.fraunhofer.de

Phone 1

+49 2251 18315

Phone 2

+XXX XXXXXXXXXX

Fax

+49 2251 1838315

### Other contact persons

First Name	Last Name	E-mail	Phone
Walter	Krause	walter.krause@zv.fraunhofer.de	+498912052713
Michael	Loescher	michael.loescher@int.fraunhofer.de	
Sabrina	Langemann	sabrina.langemann@int.fraunhofer.de	
Linde-Frech	Isabelle	isabelle.linde-frech@int.fraunhofer.de	



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **PAU COSTA FOUNDATION**

**PIC**

958896217

**Legal name**

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

*Short name: PAU COSTA FOUNDATION*

*Address of the organisation*

Street CARRER CASTELL BAIXOS 11

Town TIVISSA TARRAGONA

Postcode 43746

Country Spain

Webpage www.paucostafoundation.org

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... no

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... yes

**Enterprise Data**

SME self-declared status ..... unknown

SME self-assessment ..... unknown

SME validation sme ..... unknown

**Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.**

NACE Code: 02 - Forestry and logging



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **PAU COSTA FOUNDATION**

### Department(s) carrying out the proposed work

#### Department 1

Department name R+D+i Department

☐ not applicable

☐ Same as organisation address

Street C/ Mossen Cinto Verdaguer, 42, baixos 2a

Town Taradell

Postcode 08552

Country Spain

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **PAU COSTA FOUNDATION**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex



Male



Female

First name **Oriol**

Last name **Vilalta Caellas**

E-Mail **oriol@paucostafoundation.org**

Position in org.

General Director

Department

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



Same as organisation



Same as organisation address

Street

CARRER CASTELL BAIXOS 11

Town

TIVISSA TARRAGONA

Post code

43746

Country

Spain

Website

http://www.paucostafoundation.org/

Phone 1

+00 34 649 04 32 61

Phone 2

+XXX XXXXXXXXXX

Fax

+XXX XXXXXXXXXX

### Other contact persons

First Name	Last Name	E-mail	Phone
Mariona	Borràs	mariona@paucostafoundation.org	+0034618313843



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **INT**

**PIC**

999703438

**Legal name**

Departament d'Interior - Generalitat de Catalunya

*Short name: INT*

*Address of the organisation*

Street Carrer Diputació 355

Town Barcelona

Postcode 08009

Country Spain

Webpage <http://www20.gencat.cat/portal/site/interior/>

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... yes

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... no

**Enterprise Data**

SME self-declared status ..... 2012 - no

SME self-assessment ..... unknown

SME validation sme ..... unknown

**Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.**

NACE Code: L - Real estate activities



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **INT**

### Department(s) carrying out the proposed work

#### Department 1

Department name

☐ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **INT**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Sex ☐ Male ☒ Female

First name **Marta**

Last name **Miralles Bover**

E-Mail **mmirallesb@gencat.cat**

Position in org.

Department

☐ Same as organisation

☐ Same as organisation address

Street

Town

Post code

Country

Website

Phone 1

Phone 2

Fax



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CNBOP-PIB**

**PIC**

952247061

**Legal name**

CENTRUM NAUKOWO-BADAWCZE OCHRONY PRZECIWPOZAROWEJ IM. JOZEFA TULISZKOWSKIEGO - PANSTWOWY

*Short name: CNBOP-PIB*

*Address of the organisation*

Street ULICA NADWISLANSKA 213

Town JOZEFOW

Postcode 05-420

Country Poland

Webpage www.cnbop.pl

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... yes

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... yes

**Enterprise Data**

SME self-declared status ..... 2013 - no

SME self-assessment ..... unknown

SME validation sme ..... unknown

**Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.**

NACE Code: 721 - Research and experimental development on natural sciences and engineering



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CNBOP-PIB**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CNBOP-PIB**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex

☒ Male

☐ Female

First name **Grzegorz**

Last name **Wenarski**

E-Mail **gwenarski@cnbop.pl**

Position in org.

Senior Specialist

Department

Projects and Research Support Office

☐ Same as organisation

☒ Same as organisation address

Street

ULICA NADWISLANSKA 213

Town

JOZEFOW

Post code

05-420

Country

Poland

Website

Phone 1

+48 227693236

Phone 2

+XXX XXXXXXXXX

Fax

+XXX XXXXXXXXX



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **SZKOLA GLOWNA SLUZBY POZARNICZEJ**

**PIC**

999475682

**Legal name**

THE MAIN SCHOOL OF FIRE SERVICE

Short name: SZKOLA GLOWNA SLUZBY POZARNICZEJ

*Address of the organisation*

Street SLOWACKIEGO 52/54

Town WARSZAWA

Postcode 01 629

Country Poland

Webpage <http://www.sgsp.edu.pl>

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... yes

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... yes

Research organisation ..... yes

**Enterprise Data**

SME self-declared status ..... 2011 - no

SME self-assessment ..... unknown

SME validation sme ..... unknown

Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

NACE Code: 853 - Higher education



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **SZKOLA GLOWNA SLUZBY POZARNICZEJ**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **SZKOLA GLOWNA SLUZBY POZARNICZEJ**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex

☒ Male

☐ Female

First name **Piotr**

Last name **Tofilo**

E-Mail **piotr.tofilo@gmail.com**

Position in org.

Project Manager

Department

THE MAIN SCHOOL OF FIRE SERVICE

☒ Same as organisation

☒ Same as organisation address

Street

SLOWACKIEGO 52/54

Town

WARSZAWA

Post code

01 629

Country

Poland

Website

Phone 1

Phone 2

+XXX XXXXXXXXXX

Fax

+XXX XXXXXXXXXX



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CBSS**

**PIC** 952232511 **Legal name** THE COUNCIL OF THE BALTIC SEA STATES SECRETARIAT

Short name: CBSS

Address of the organisation

Street SLUSSPLAN 9 2 TR

Town STOCKHOLM

Postcode 111 30

Country Sweden

Webpage www.cbss.org

Legal Status of your organisation

#### Research and Innovation legal statuses

Public body ..... yes

Legal person ..... yes

Non-profit ..... yes

International organisation ..... yes

International organisation of European interest ..... yes

Secondary or Higher education establishment ..... no

Research organisation ..... no

#### Enterprise Data

SME self-declared status ..... 2013 - no

SME self-assessment ..... unknown

SME validation sme ..... unknown

Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

NACE Code: - - Not applicable



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CBSS**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

*Please enter street name and number.*

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CBSS**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex

☒ Male

☐ Female

First name **Janusz**

Last name **Gaciarz**

E-Mail **janusz.gaciarz@cbss.org**

Position in org.

Project Manager

Department

THE COUNCIL OF THE BALTIC SEA STATES SECRETARIAT

☒ Same as organisation

☒ Same as organisation address

Street

SLUSSPLAN 9 2 TR

Town

STOCKHOLM

Post code

111 30

Country

Sweden

Website

Phone 1

Phone 2

+XXX XXXXXXXXXX

Fax

+XXX XXXXXXXXXX

### Other contact persons

First Name	Last Name	E-mail	Phone
Jacek	Paszkowski	jacek.paszkowski@cbss.org	



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MSB**

**PIC** 973204396 **Legal name** MYNDIGHETEN FOR SAMHALLSSKYDD OCH BEREDSKAP

*Short name: MSB*

*Address of the organisation*

Street KAROLINEN

Town KARLSTAD

Postcode 65181

Country Sweden

Webpage www.msb.se

*Legal Status of your organisation*

#### Research and Innovation legal statuses

Public body ..... yes

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... no

#### Enterprise Data

SME self-declared status ..... unknown

SME self-assessment ..... unknown

SME validation sme ..... unknown

Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

NACE Code: L - Real estate activities



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MSB**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

*Please enter street name and number.*

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **MSB**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mrs

Sex

☐ Male

☒ Female

First name **Eleonor**

Last name **Storm**

E-Mail **eleonor.storm@msb.se**

Position in org.

Project manager

Department

MYNDIGHETEN FOR SAMHALLSSKYDD OCH BEREDSKAP

☒ Same as organisation

☒ Same as organisation address

Street

KAROLINEN

Town

KARLSTAD

Post code

65181

Country

Sweden

Website

www.msb.se

Phone 1

+46102405376

Phone 2

+XXX XXXXXXXXXX

Fax

+XXX XXXXXXXXXX

### Other contact persons

First Name	Last Name	E-mail	Phone
Håkan	Axelsson	hakan.axelsson@msb.se	+46102405150
Mats	Berglund	mats.berglund@msb.se	+46102405490
Patrik	Perbeck	patrik.perbeck@msb.se	+46102405365



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CENTER FOR SECURITY STUDIES CENTR**

**PIC**

999827307

**Legal name**

KENTRO MELETON ASFALIAS

Short name: *CENTER FOR SECURITY STUDIES CENTRE D'ETUDES DE SECURITE*

*Address of the organisation*

Street P KANELLOPOULOU 4 ST

Town ATHINA

Postcode 10177

Country Greece

Webpage www.kemea.gr

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... no

Legal person ..... yes

Non-profit ..... yes

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... yes

**Enterprise Data**

SME self-declared status ..... unknown

SME self-assessment ..... unknown

SME validation sme ..... unknown

Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

NACE Code: 84 - Public administration and defence



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CENTER FOR SECURITY STUDIES CENTR**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

*Please enter street name and number.*

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CENTER FOR SECURITY STUDIES CENTR**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Dr.

Sex

☒ Male

☐ Female

First name **Georgios**

Last name **Leventakis**

E-Mail **gleventakis@kemea.gr**

Position in org.

Senior Advisor- European Projects

Department

N/A

☐ Same as organisation

☒ Same as organisation address

Street

P KANELLOPOULOU 4 ST

Town

ATHINA

Post code

10177

Country

Greece

Website

www.kemea.gr

Phone 1

+302107710805

Phone 2

+306978994406

Fax

+302107481995

### Other contact persons

First Name	Last Name	E-mail	Phone
Georgios	Eftychidis	g.eftychidis@kemea-research.gr	+302107710805



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CAFO THE CZECH ASSOCIATION OF THE**

PIC	Legal name
955238250	CESKA ASOCIACE HASICSKYCH DUSTOJNIKU SDRUZENI

Short name: **CAFO THE CZECH ASSOCIATION OF THE FIRE OFFICERS**

*Address of the organisation*

Street VYSKOVICKA 40

Town OSTRAVA

Postcode 700 44

Country Czech Republic

Webpage www.cahd.cz

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... no  
Non-profit ..... yes  
International organisation ..... no  
International organisation of European interest ..... no  
Secondary or Higher education establishment ..... no  
Research organisation ..... no

Legal person ..... yes

**Enterprise Data**

SME self-declared status ..... 2012 - no  
SME self-assessment ..... unknown  
SME validation sme ..... unknown

**Based on the above details of the Beneficiary Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.**

NACE Code: 93 - Sports activities and amusement and recreation activities



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CAFO THE CZECH ASSOCIATION OF THE**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **CAFO THE CZECH ASSOCIATION OF THE**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Dr.

Sex

☒ Male

☐ Female

First name **Petr**

Last name **Oslejsek**

E-Mail **petr.oslejsek@hzsol.cz**

Position in org.

Vicepresident

Department

CESKA ASOCIACE HASICKSKYCH DUSTOJNIKU SDRUZENI

☒ Same as organisation

☒ Same as organisation address

Street

VYSKOVICKA 40

Town

OSTRAVA

Post code

700 44

Country

Czech Republic

Website

www.cahd.cz

Phone 1

+420602530719

Phone 2

+420950730300

Fax

+420596750928

### Other contact persons

First Name	Last Name	E-mail	Phone
Vladimir	Vlcek	vladimir.vlcek@hzsmk.cz	+420602748348



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **INNO TSD**

**PIC**

999609833

**Legal name**

INNO TSD

*Short name: INNO TSD*

*Address of the organisation*

Street PLACE JOSEPH BERMOND OPHIRA I

Town SOPHIA ANTIPOLIS VALBONNE

Postcode 06560

Country France

Webpage <http://www.inno-group.com>

*Legal Status of your organisation*

**Research and Innovation legal statuses**

Public body ..... no

Legal person ..... yes

Non-profit ..... no

International organisation ..... no

International organisation of European interest ..... no

Secondary or Higher education establishment ..... no

Research organisation ..... no

**Enterprise Data**

SME self-declared status ..... 2013 - yes

SME self-assessment ..... 2013 - yes

SME validation sme ..... 2008 - yes

**Based on the above details of the Beneficiary Registry the organisation is an SME (small- and medium-sized enterprise) for the call.**

NACE Code: 69 - Legal and accounting activities



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **INNO TSD**

### Department(s) carrying out the proposed work

#### No department involved

Department name

☒ not applicable

☐ Same as organisation address

Street

Town

Postcode

Country

### Dependencies with other proposal participants

Character of dependence	Participant	
-------------------------	-------------	--



Proposal ID **740575**

Acronym **FIRE-IN**

Short name **INNO TSD**

### Person in charge of the proposal

The name and e-mail of contact persons are read-only in the administrative form, only additional details can be edited here. To give access rights and basic contact details of contact persons, please go back to Step 4 of the submission wizard and save the changes.

Title

Mr.

Sex

☒ Male

☐ Female

First name **Marc**

Last name **Pattinson**

E-Mail **m.pattinson@inno-group.com**

Position in org.

Director

Department

INNO TSD

☒ Same as organisation

☒ Same as organisation address

Street

PLACE JOSEPH BERMOND OPHIRA I

Town

SOPHIA ANTIPOLIS VALBONNE

Post code

06560

Country

France

Website

www.inno-group.com

Phone 1

+ 33 4 92 38 84 16

Phone 2

+XXX XXXXXXXXXX

Fax

+XXX XXXXXXXXXX

### Other contact persons

First Name	Last Name	E-mail	Phone
Camille	Duran	c.duran@inno-group.com	+ 33 4 92 38 84 13
Christian	RANIERI	c.ranieri@inno-group.com	+ 33 4 92 38 84 27

Proposal ID **740575**

Acronym **FIRE-IN**

## 3 - Budget for the proposal

No	Participant	Country	(A) Direct personnel costs/€  ?	(B) Other direct costs/€  ?	(C) Direct costs of sub- contracting/€  ?	(D) Direct costs of providing financial support to third parties/€  ?	(E) Costs of inkind contributions not used on the beneficiary's premises/€  ?	(F) Indirect Costs / € (=0.25(A+B-E))  ?	(G) Special unit costs covering direct & indirect costs / €  ?	(H) Total estimated eligible costs / € (=A+B+C+D+F +G)  ?	(I) Reimburse- ment rate (%)  ?	(J) Max.EU Contribution / € (=H*I)  ?	(K) Requested EU Contribution/ €  ?
1	Pegase	FR	384375	388855	0	0	0	193307,50	0	966537,50	100	966537,50	966537,50
2	Ensosp	FR	178200	22775	0	0	0	50243,75	0	251218,75	100	251218,75	251218,75
3	Ministero Dell'interno	IT	119543	21815	0	0	0	35339,50	0	176697,50	100	176697,50	176697,50
4	Bundesministe rium Des Innern	DE	102000	21555	85000	0	0	30888,75	0	239443,75	100	239443,75	239443,75
5	Mpg	DE	82500	11555	0	0	0	23513,75	0	117568,75	100	117568,75	117568,75
6	European Virtual Institute For Integrated	DE	166500	8135	0	0	0	43658,75	0	218293,75	100	218293,75	218293,75
7	Fraunhofer Gesellschaft Zur	DE	223839	10655	0	0	0	58623,50	0	293117,50	100	293117,50	293117,50
8	Pau Costa Foundation	ES	71500	11555	0	0	0	20763,75	0	103818,75	100	103818,75	103818,75
9	Int	ES	92400	22775	0	0	0	28793,75	0	143968,75	100	143968,75	143968,75
10	Cnbop-pib	PL	32500	8135	0	0	0	10158,75	0	50793,75	100	50793,75	50793,75



Proposal ID **740575**

Acronym **FIRE-IN**

11	Szkola Glowna Sluzby	PL	20500	11555	0	0	0	8013,75	0	40068,75	100	40068,75	40068,75
12	Cbss	SE	166950	11555	15000	0	0	44626,25	0	238131,25	100	238131,25	238131,25
13	Msb	SE	113736	18395	0	0	0	33032,75	0	165163,75	100	165163,75	165163,75
14	Center For Security Studies Centre	EL	175950	26195	0	0	0	50536,25	0	252681,25	100	252681,25	252681,25
15	Cafo The Czech Association Of	CZ	69000	14975	0	0	0	20993,75	0	104968,75	100	104968,75	104968,75
16	Inno Tsd	FR	94500	12515	0	0	0	26753,75	0	133768,75	100	133768,75	133768,75
	Total		2093993	623000	100000	0	0	679248,25	0	3496241,25		3496241,25	3496241,25

Proposal ID **740575**

Acronym **FIRE-IN**

## 4 - Ethics issues table

<b>1. HUMAN EMBRYOS/FOETUSES</b>		Page
Does your research involve <a href="#">Human Embryonic Stem Cells (hESCs)</a> ?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does your research involve the use of human embryos?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does your research involve the use of human foetal tissues / cells?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>2. HUMANS</b>		Page
Does your research involve human participants?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does your research involve physical interventions on the study participants?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>3. HUMAN CELLS / TISSUES</b>		Page
Does your research involve human cells or tissues (other than from Human Embryos/ Foetuses, i.e. section 1)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>4. PERSONAL DATA</b>		Page
Does your research involve personal data collection and/or processing?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does your research involve further processing of previously collected personal data (secondary use)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>5. ANIMALS</b>		Page
Does your research involve animals?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>6. THIRD COUNTRIES</b>		Page
In case non-EU countries are involved, do the research related activities undertaken in these countries raise potential ethics issues?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Do you plan to use local resources (e.g. animal and/or human tissue samples, genetic material, live animals, human remains, materials of historical value, endangered fauna or flora samples, etc.)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Do you plan to import any material - including personal data - from non-EU countries into the EU?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Do you plan to export any material - including personal data - from the EU to non-EU countries?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
In case your research involves <a href="#">low and/or lower middle income countries</a> , are any benefits-sharing actions planned?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Could the situation in the country put the individuals taking part in the research at risk?	<input type="radio"/> Yes <input checked="" type="radio"/> No	

Proposal ID **740575**

Acronym **FIRE-IN**

<b>7. ENVIRONMENT &amp; HEALTH and SAFETY</b>		Page
Does your research involve the use of elements that may cause harm to the environment, to animals or plants?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does your research deal with endangered fauna and/or flora and/or protected areas?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does your research involve the use of elements that may cause harm to humans, including research staff?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>8. DUAL USE</b>		Page
Does your research involve dual-use items in the sense of Regulation 428/2009, or other items for which an authorisation is required?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>9. EXCLUSIVE FOCUS ON CIVIL APPLICATIONS</b>		Page
Could your research raise concerns regarding the exclusive focus on civil applications?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>10. MISUSE</b>		Page
Does your research have the potential for misuse of research results?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>11. OTHER ETHICS ISSUES</b>		Page
Are there any other ethics issues that should be taken into consideration? Please specify	<input type="radio"/> Yes <input checked="" type="radio"/> No	

I confirm that I have taken into account all ethics issues described above and that, if any ethics issues apply, I will complete the ethics self-assessment and attach the required documents. ☒

[How to Complete your Ethics Self-Assessment](#)

Proposal ID **740575**

Acronym **FIRE-IN**

## 5 - Call specific questions

### *Societal Impact Table*

Does your research meet the need of society?		Page
1. Does the proposed research address documented societal security need(s) (e.g. life, liberty, health, employment, property, environment, values)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
2. Does the research output meet these needs? Will this be demonstrated? Will the level of societal acceptance be assessed?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
3. Does the research address threats to society (e.g. crime, terrorism, pandemic, natural and man-made disasters etc.)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
4. Does the proposed research address in an appropriate way these threats?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does your research benefit society?		Page
5. Do segment(s) of society benefit from the proposed research?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
6. Does society as a whole benefit from the proposed research?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does your research have negative impact on society?		Page
7. Are there other European societal values that are enhanced by the proposed research e.g. public accountability and transparency; strengthened community involvement; human dignity; good governance; social and territorial cohesion; sustainable development etc.?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
8. If implemented, could the research have a negative impact on the rights and values enshrined in the Treaties (e.g. freedom of association, freedom of expression, protection of personal dignity, privacy and data protection.	<input type="radio"/> Yes <input checked="" type="radio"/> No	
9. If implemented, could the research impact disproportionately upon specific groups or unduly discriminate against them?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
10. Will specific measures be taken to ensure that the research outcomes comply with the European Charter of Fundamental Rights and to mitigate against any of the negative impacts described above?	<input type="radio"/> Yes <input checked="" type="radio"/> No	



Proposal ID **740575**

Acronym **FIRE-IN**

### Data management activities

A new focus within Horizon 2020 is data management, for example through the use of [Data Management Plan \(DMP\)](#).

DMPs detail what data the project will generate, whether and how it will be exploited or made accessible for verification and re-use, and how it will be curated and preserved.

The use of a DMP is required for projects participating in the Open Research Data Pilot in the form of a deliverable in the first 6 months of the project (possible updates during the project).

Other projects are invited to submit a DMP if relevant for their planned research.

Are data management activities relevant for your proposed project?

☐ Yes

☒ No

### Open Research Data Pilot in Horizon 2020

All applicants can participate in the [Pilot on Open Research Data in Horizon 2020](#)<sup>1</sup> on a voluntary basis. This Pilot aims to improve and maximise access to and re-use of research data generated by actions.

Participants in the Pilot will be invited to formulate a Data Management Plan (DMP). DMPs detail what data the project will generate, whether and how it will be exploited or made accessible for verification and re-use, and how it will be curated and preserved.

Participating in the Pilot is flexible in the sense that it does not mean that all research data needs to be open. Rather, projects can define certain datasets to remain closed via a Data Management Plan (DMP).

Please note that participation in this Pilot does not constitute part of the evaluation process. Proposals will not be evaluated favourably because they participate in the Pilot on a voluntary basis.

We wish to participate in the [Pilot on Open Research Data in Horizon 2020](#) on a voluntary basis

☐ Yes

☒ No

<sup>1</sup> According to article 43.2 of Regulation (EU) No 1290/2013 of the European Parliament and of the Council, of 11 December 2013, laying down the rules for participation and dissemination in "Horizon 2020 - the Framework Programme for Research and Innovation (2014-2020)" and repealing Regulation (EC) No 1906/2006.



## FIRE-IN - Fire and Rescue Innovation Network

<b>Proposal acronym</b>	<b>FIRE-IN</b>
Type of action	Coordination and Support Action
Work programme topic	Horizon 2020 Work Programme 2016-2017 – 14. Secured societies – Protecting freedom and security of Europe and its citizens
Call	SEC-21-GM-2016-2017 Pan European Networks of practitioners and other actors in the field of security
Topic addressed	a) Practitioners (end-users) in the same discipline and from across Europe
Name of the coordinating person	Jean-Michel Dumaz, Pole SAFE, France +33 6 08 41 01 46; <a href="mailto:Jean-Michel.DUMAZ@safeccluster.com">Jean-Michel.DUMAZ@safeccluster.com</a>

### List of participants

Participant No.	Participant organisation name	Part. short name	Country
1 (CO)	Pôle de compétitivité SAFE CLUSTER (ex Pôle Pégase)	SAFE	France
2	Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers – French National Fire Fighter Officers Academy	ENSOSP	France
3	Italian Ministry of Interior	IMI	Italy
4	Bundesanstalt Technisches Hilfswerk	THW	Germany
5	Global Fire Monitoring Center	GFMC	Germany
6	European Virtual Institute for Integrated Risk Management	EU-VRi	Germany
7	Fraunhofer INT	FhG-INT	Germany
8	Fire Ecology and Management Foundation Pau Costa Alcubierre	PCF	Spain
9	Catalonia Fire Service Rescue Agency	CFS	Spain
10	Scientific and Research Centre for Fire Protection	CNBOP	Poland
11	The Main School of Fire Services	SGSP	Poland
12	Council of Baltic Sea States	CBSS	Sweden
13	Swedish Civil Contingencies Agency	MSB	Sweden
14	KEMEA	KEMEA	Greece
15	Czech Association of Fire Officers	CAFO	Czech Republic
16	inno TSD	inno	France

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# 1. Excellence

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## 1.1.1. Main objective

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The main objective of FIRE-IN is to **improve the national and European Fire & Rescue (F&R) capability development process by fostering innovation** in this domain and promoting cutting edge solutions to recognised operational needs. This may significantly reduce residual risks and raise the security level of EU citizens. In the present proposal this is addressed in four main lines of activity: (i) the identification and harmonisation of **operational capability gaps** based on the contribution provided by a significant and heterogeneous network of practitioners, (ii) the scouting of **promising solutions** and the constant interaction of practitioners with research and industry representatives to address the aforementioned gaps, (iii) the definition of a **F&R Strategic Research and Standardisation Agenda (SRSA)** as well as (iv) the development of a concept for **more efficient use of test & demonstration and training facilities** to support innovation and joint skill development.

In order to achieve this, FIRE-IN will set up and test a **step-based approach** aiming to deliver well-conceived capability-driven research. These steps will be jointly developed and applied by FIRE-IN partners and their practitioner<sup>1</sup>, research, and industry networks. They will be tested and refined during three iterative implementation cycles executed along the project's lifetime. The consortium will ensure the sustainability of the network and that the process can continue to run after the official end of the FIRE-IN project. To achieve a sustainable perspective, FIRE-IN partners will strive to identify suitable organisational structures, capable of coordinating the process after the project's end.

The overarching outcome of the project will be a proven process for supporting capability-driven research in F&R topics, which will be advocated by an extended network of stakeholders from all EU Member States (MS). The network will be linked at cross-domain and cross-border level and will report harmonised operational requirements (or challenges) into national and EU programmes for capability development that may refer to R&D, innovation, pre-commercial procurement and standardisation.

## 1.1.2. Specific objectives

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The main FIRE-IN objective outlined above was formulated in relation to specific needs of F&R capability development:

Firstly, European civil protection<sup>2</sup> including F&R<sup>34</sup> practitioners and related services are relying on the development of technologies, procedures, organisational concepts (from now on referred to in sum as “solutions”) that actually **meet relevant operational needs**. To this end, FIRE-IN shall adopt a practitioner-driven approach in order to come up with recommendations on research and innovation (R&I) that are based on two important conditions: (1) a **widely accepted understanding of innovation and standardisation needs** on the one hand, and (2) a **shared understanding of the innovation potential of novel solutions** coming out of R&I activities on the other. These conditions have to be ensured among F&R practitioners (from the same and across disciplines) working together in facing emergencies and major crisis situations. The latter requires not only an **analytical approach to capability development**, but also a **network-of-networks based cooperation and interaction strategy**: that is, exploiting the knowledge of existing regional, national and sub-national networks of operational actors and practitioners and widely disseminating findings regarding innovation. Following this approach, current and future Common Capability Challenges (CCCs) can be defined across F&R sub-domains and civil protection areas while promising solutions resulting from research activities can

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<sup>1</sup> In line with Horizon 2020 Work Programme, the term “practitioner” is used in this proposal to define “someone who is qualified or registered to practice a particular occupation, profession in the field of security or civil protection”.

<sup>2</sup> ISO22300, civil protection: measures taken and systems implemented to preserve the lives and health of citizens, their properties and their environment from undesired events.

<sup>3</sup> Fire & Rescue has been chosen as a focus to address deficits in fire management and related capabilities in many countries.

<sup>4</sup> Both, Fire & Rescue and Civil Protection, are to be understood as functions whose definition differs from country to country. Mostly, F&R acts a sub-function of Civil Protection. However, since the two share many cross-cutting missions and capabilities, it does not make sense to look at F&R in isolation, but the latter should be studied benefiting from a clear focus on F&R while also taking into account the wider perspective of Civil Protection at large.

be made accessible to the entire F&R community.

Secondly, **supporting innovation<sup>5</sup> calls for test & demonstration** activities aiming to select promising solutions over less suitable ones and to avoid spending budget on research that would not deliver added operational values. Furthermore, **innovation in this area requires training and skill-development** as integral parts of capability building. In particular for the **development of joint European or cross-sector capabilities** it is crucial to involve personnel from different MS and/or organisations, as applied through the trainings funded by the European Civil Protection Mechanism (CPM). Thus, in order to promote innovation, FIRE-IN will **facilitate synergistic and more efficient use of available training facilities for testing, demonstration and training**, so as to support the operationalisation of research-derived solutions and to steer decision making on future investments as well as to enable joint trainings.

Thirdly, since FIRE-IN can only be a starting point for a better structured capability development process, **National Contact Point (NCP) services have to be professionalised<sup>6</sup>**. Thereby, the entry barrier for newcomers has to be lowered and the average quality of proposals submitted with participation of practitioners and/or under their lead has to be raised. Also by inviting NCPs to FIRE-IN events the project will ensure the synergy required to develop a set of recommendations to foster the described developments and to support an integral part of the overall capability development which is **high quality research through acknowledgement of operational realities**.

The aforementioned objectives will lead to the following tangible outputs:

- (i) A widely accepted European research agenda reflecting innovation needs and societal challenges for the F&R domain.
- (ii) A methodological framework for continuous updating of the European research agenda.
- (iii) A novel (network-of-networks) cooperation scheme that links different professional and organisational networks, researchers and industry representatives in order to foster operationally qualified research capability development in civil protection and F&R domains.
- (iv) Better networking and exploitation of synergies between existing facilities for test & demonstration, validation enabling more efficient use of resources.
- (v) Recommendations for a professionalised and harmonised NCP system that may ensure high quality research and entry of all stakeholders required for the entire R&I cycle.

## 1.2. Relation to the work programme

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### 1.2.1. The uptake of security research and innovation in Fire & Rescue

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The Secure Societies theme of Horizon 2020 is characterised by a capability-driven research approach, i.e. the definition of individual call topics is supposed to be based on EU-wide end-user consultations on operational challenges. However, so far this process is hampered by specific challenges of the EU security research market, such as fragmentation and a lack of structures and procedures for involving the entirety of practitioner organisations needed to draw a complete picture of operational needs. As a consequence, the whole process is not leading to the desired frequency of innovation. This ultimately might lead to EU practitioners and citizens not being provided with state-of-the-art (SotA) security solutions. To improve the situation, the current 3<sup>rd</sup> Horizon 2020 Work Programme calls for the establishment of networks that would develop these structures by better connecting practitioners, researchers, industry, and by adding capability development methods and procedures to come up with a consolidated and reliable list of operational challenges as a basis for H2020 and later Secure Societies Work Programmes.

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<sup>5</sup> Innovation is defined as market entry or operationalisation of novel solutions. Relevant activities comprise all scientific, technological, organisational, financial and commercial steps which lead, or are intended to lead, to the implementation of novel solutions.

<sup>6</sup> This is more specifically the objective of the part d) of the call that targets the creation of « a consortium of formally nominated NCPs in the area of security research” in 2017, with which FIRE-IN intends to cooperate.

FIRE-IN responds to this call by setting up a network structure and by applying suitable and **replicable methods** and procedures for the F&R domain, thereby involving the wider civil protection community. The project will inspire a **Strategic Research and Standardisation Agenda (SRSA)** to be developed on the basis of a Europe-wide agreement. The SRSA will, thus, be more authoritative for industry planning processes than the process in place to date. As part of this, FIRE-IN will conduct an extensive screening of available research results and products as well as standardisation activities able to meet operational challenges and thus, ensure that research and innovation outcomes and other relevant information become accessible and its operational impact is more visible to practitioners for their further capability planning. Moreover, the project proposes to foster cooperation in testing, demonstrating and training activities under operational conditions and for research outcomes to be selected for further Research & Development (R&D) investment on the basis of operational added-value.

In sum, FIRE-IN will ensure a much better preparation of the Work Programme's contents and better exploitation of its results, i.e. it will considerably contribute to more efficient innovation management in the F&R domain and – to some extent – beyond.

### 1.2.2. The need for Pan-European collaboration to deliver security enhancing solutions

The FIRE-IN proposal addresses the topic **"SEC-21-GM-2016-2017: Pan European Networks of Practitioners and Other Actors in the Field of Security"** of the Horizon 2020 Work Programme, under the pillar **Societal Challenges**, and more specifically, the scope (a.) dedicated to networks of "Practitioners (end-users) in the same discipline and from across Europe". The scope has been chosen to enable capability-driven research in the F&R domain where a lot of European resources can be saved through improved cross-organisational and cross-border cooperation. At the same time F&R is an area highly relevant to disaster management, a field in desperate need for innovation in the face of rapidly changing natural and human-caused hazards threatening the security of our societies.

What are the issues as of today that FIRE-IN seeks to address by a cross-border and cross-organisational approach to capability-driven research planning?

- i. As mentioned above, hazards are changing due to natural and man-made or human caused reasons – climate change being one of the main challenges. Vulnerabilities change, for reasons ranging from migration to societal evolution affecting people's ability to cope with crises. Interconnectedness is evolving due to increased connectivity in the technical domain, for example the power transmission system, and in the sociocultural domain. The interrelation of these societal, technical and environmental changes creates new challenges. These evolving challenges are not compensated by traditional challenges becoming obsolete. Instead, as societies become more complex, both the increasing scope and unpredictability of potential crises, and the rapid dynamics of the incidents to be managed demand crisis management of an ever higher level of complexity. This does not necessarily mean that the frequency of crises increases, but unless the EU innovation landscape is up to the challenge of producing solutions, which fully exploit modularity, flexibility and adaptability to

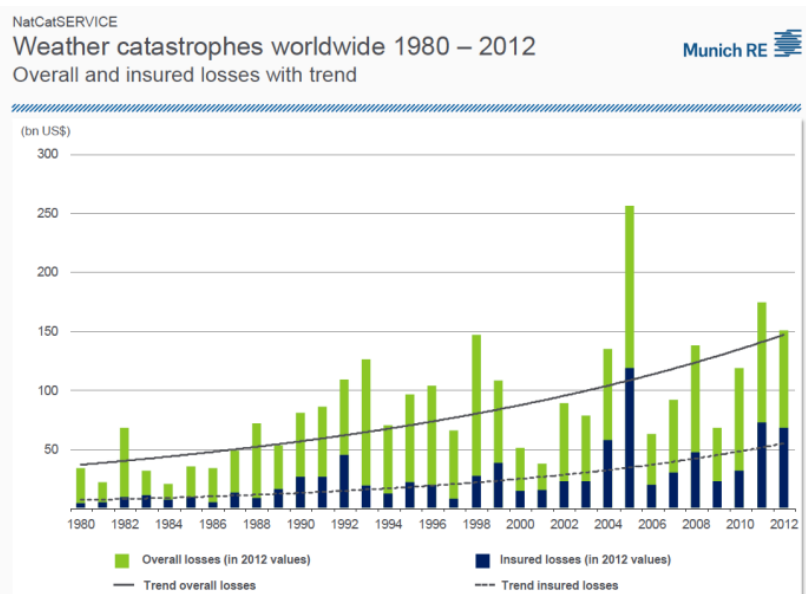


Figure 1 : Cost of natural disasters worldwide, 1980-2012

address complexity, then either the cost of (conventional, i.e. non-modular) capability development or the costs due to inadequate management of crises will grow (cf. Figure 1 : Cost of natural disasters worldwide, 1980-2012).

- ii. Many European public organisations dealing with security and civil protection issues have only recently (i.e. during the 7<sup>th</sup> Framework Programme) started to develop a culture of research and innovation – a development that was triggered by security research emerging after 9/11 and the need to be able to cope with rapidly changing hazards and to operationalise rapidly evolving technology. The organisational structure of many F&R (and other) practitioner organisations, however, does not yet fully integrated this culture. Consequently, there are few resources available to monitor innovation and research developments and to improve awareness of existing solutions that may address the challenges practitioners are facing. Also, one has to admit that in the European security research system end-user organisations hardly get the necessary access to structured project results. Furthermore, there are very few mechanisms and processes in practitioner organisations in place that may support the definition cross-border or cross-organisational requirements. Thus, synergies in defining needs and developing solutions are non-existent. Even more importantly, modular and flexible solutions that require European R&D effort and financial burden sharing are difficult to be developed under the current conditions.
- iii. At the same time, technologies are developed more rapidly than ever before (cf. Figure 2: Intensity and development speed in ICT, 2000-2012<sup>7</sup>). This is obviously also true for technological developments highly relevant to F&R and civil protection issues, such as e.g. UAS (Unmanned Aerial Systems), ICT (Information and Communication Technologies), Open Data/Open Access trends linked to big data working methods,

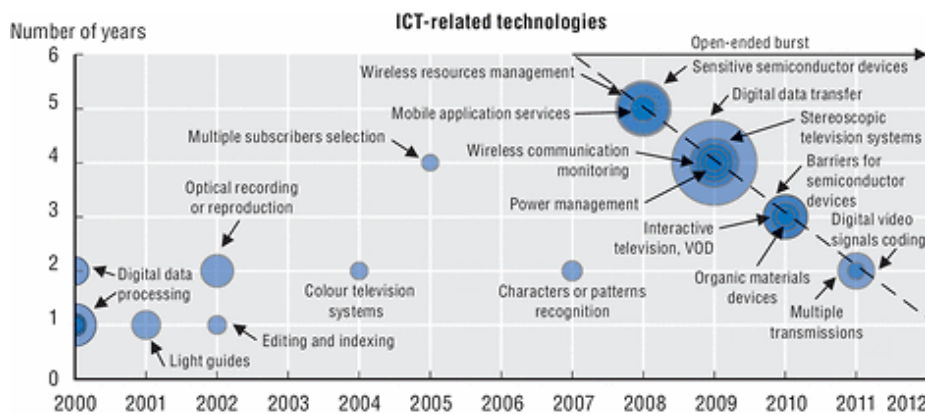


Figure 2: Intensity and development speed in ICT, 2000-2012

IoT (internet of things and their connectivity), CBRNE (Chemical, Biological, Radiological, Nuclear, and Explosive materials) equipment, emergency shelters, and smart protective equipment systems including smart textiles.

Commercial off-the-shelf (COTS) solutions are often unsuitable for practitioners' needs since the process of public procurements does

not sufficiently take into consideration the level of performance of products or services needed. The latter can be explained by a lack of standards describing these parameters. Novel solutions that are being procured are mostly deriving from SME suppliers that only have access to regional or national markets. Consequently, economies of scale cannot be realised which, in turn, increases cost of new equipment.

In sum, **capability development needs much stronger guidance from practitioners and practitioners need to coordinate** on RDI including standardisation much more effectively in order to meet operational needs and to exploit and shape the technology potentially available and emerging. FIRE-IN will ensure those needs are met and will tackle the issues depicted above.

### 1.2.3. Improved innovation uptake through improved capability development

FIRE-IN will improve capability-driven research in the F&R domain. This will ultimately lead to progress beyond State-of-the-Art (SotA) in F&R and its sub-domains. However, while content and desired progress

<sup>7</sup> OECD, STI Micro-data Lab: Intellectual Property Database, <http://oe.cd/ipstats>, June 2015: The size of the bubble indicates the "burst" intensity, and different shades indicate the different technologies that burst. The technology bursts in the year are indicated on the X axis and the acceleration of its development ends in t years after the burst, indicated on the Y axis. For example, acceleration in the development of patented technologies related to Characters of pattern recognition was first observed in 2007, and lasted for two years, until the end of 2009. Bubbles located along the diagonal line on the right hand side of the figure represent "open-ended" burst technologies (i.e. technologies still developing at an accelerated pace at the end of the sample period).

beyond SotA of the different thematic areas chosen by FIRE-IN is described below (cf. 1.3.1), here we will describe the progress beyond SotA in the issues described under 1.2.2:

- I. In order to respond to rapidly evolving hazards – and to support the implementation of EU policy as e.g. Decision No 1313/2013/EU of 17 December 2013<sup>8</sup> (EU Civil Protection Mechanism) – modular, faster and stronger capabilities have to be developed. It can be added that, in order to be as cost-efficient as possible, capabilities should be flexible, adaptive and respect legacy solutions. All of this has to be achieved at a cross-border level to fully exploit the EU's civil protection current and future capabilities. To support this process, coordination of capability development has to start as early as possible, i.e. during the research phase. Through a cooperation scheme as proposed by FIRE-IN (cf. also below, 1.3.2) it will be ensured that for the F&R domain operational challenges are harmonised according to what is requested by EU policy and operational realities (WP1, WP4). Legacy and current challenges will be described across MS and across the different organisation types involved in F&R and Civil Protection. Thus, FIRE-IN will describe already operational solutions, what is needed and how legacy and novel solutions across borders and organisations can be combined. This is to draw a cost effective research agenda that enables European practitioners to address a range of operational scenarios in a modular and adaptive way (WP3).
- II. To improve closer cooperation between operational and researching communities in F&R and civil protection and to foster knowledge exchange between both groups it has to be ensured that practitioner organisations (i) apply analytics that support cross-border or cross-organisational requirements definition (WP1), and (ii) are provided access to existing research potentially meeting their requirements (WP2). Consequently, the members of the FIRE-IN consortium – many of them being practitioner organisations involved in operational F&R, civil protection or disaster relief – made sure that partners from research are supporting the project from a methodological and analytical point of view (cf. also section 1.3.2). Furthermore, an extensive Research & Development & Innovation (RDI) projects' monitoring and screening task will be a major activity of the project. Academia and industry will be asked to provide their ideas and solutions for meeting the Capability Challenges defined by the project. Finally, through setting up a much wider network-of-networks that connects practitioners, research, and industry networks a continuous and sustainable dialogue between largely isolated communities will be set up.
- III. In order to better manage capability development in F&R and Civil Protection, practitioners have to be enabled to steer the innovation process and to guide research, standardisation and procurement efforts. This is to be achieved by making sure that research funding is aligned with operational challenges, which means that topics in work programmes are based on practitioner-driven research and innovation agendas. However, it also means that higher Technology Readiness Level (TRL)-research needs guidance from practitioners when it comes to test & demonstration, i.e. to selecting promising solutions over less promising solutions for further investments into development and into step-wise adaptation of results to operational realities. FIRE-IN will contribute to improving the innovation system in this regard by essentially two main activities: (i) the project will improve cooperation between training facilities of FIRE-IN partners and within FIRE-IN network organisations. A concept for implementation will be delivered and the first formal agreements will be implemented during the project lifetime; those will also improve the situation of joint training and skills development (WP4). (ii) FIRE-IN will describe Common Capability Challenges (CCCs) to be met by research activities in a way that developments can be tested according to progress and success criteria (WP1). Thus, FIRE-IN will enable decision making on promising solutions and future R&D investments for end-user organisations.

Table 1 demonstrates how the FIRE-IN proposal **effectively and comprehensively addresses the specific challenge (SEC-21-GM-2016-2017) and the scope (a.)**, as requested in the call text.

**Table 1: How scopes are addressed in the FIRE-IN proposal**

Scope (a.)	How it is addressed in the FIRE-IN proposal
"Practitioners (end-users) in the same	The consortium already brings together 16 partners from across the European F&R community. In addition, partners will identify and recruit

<sup>8</sup> [http://www.consilium.europa.eu/uedocs/cms\\_data/docs/pressdata/en/jha/140108.pdf](http://www.consilium.europa.eu/uedocs/cms_data/docs/pressdata/en/jha/140108.pdf)

discipline and from across Europe... can get together”	practitioners from across Europe to act as Associated Experts (AE) and to establish five Thematic Working Groups (TWGs, cf. 1.3.1) for the identification and analysis of thematic capability challenges (WP1). Already 45 AEs have expressed their interest in working with FIRE-IN (Annex 3, section 6.3.2, for full list of AEs and letters).  AEs will be part of the dynamic and constantly growing FIRE-IN network. This network will be developed to form a virtual platform at European level that can be detailed into national platforms (WP4).
“monitor research and innovation projects with a view to recommending the uptake or the industrialisation of results”	Based on the capability challenges defined by practitioners, FIRE-IN will conduct an extensive screening of research, innovation and technology trends, projects, available products and standards (WP2). After including the supply side perspective, a Strategic Research and Standardisation Agenda (SRSA, three consecutive cycles) including necessary steps in research, for closing the “valley of death”, and to industrialise results will be formulated (WP3). E-FIRE-IN will be a permanent help and info desk for research project coordinators, supporting concept and project evaluation by facilitating interactions with EU F&R practitioners (WP4).
“express common requirements as regards innovations that could fill in capability and other gaps”	Requirements formulated as specific challenges for each of the TWGs will be harmonised across thematic areas and described as Common Capability Challenges (CCCs) and Future Capability Challenges (FCCCs) (WP1). Also, a wider civil protection perspective will be incorporated through AEs. Challenges and gaps will be covering technology, but also horizontal aspects (eg. policy, training etc.)
“improve innovations performance in the future”	Innovation performance will be improved through improved analytics applied to the field, and better exchanges and sharing with the industry and research. This will be achieved through the AE network and interactions on the e-FIRE-IN platform. Further, FIRE-IN will seek to institutionalise its methodology for cooperative RDI planning and use. The FIRE-IN network and e-platform shall be long-lasting to support innovation also after the project’s official end date (WP4).
“indicate priorities as regards domains requiring more standardisation”	The priorities will be indicated through the SRSA recommendations (WP3). FIRE-IN partners and AEs include standardisation organisations or organisations with relevant expertise can be found. These will actively work on proposals for European standards related to F&R (WP2, WP3).
“Interaction with industry and academia	The FIRE-IN methodology places the industry-academia interaction at the heart of the project and over 30% of the project budget is dedicated to ensuring practitioners can interface with these actors.
European Technology and Innovation competitiveness	The FIRE-IN methodology seeks to stimulate the competitiveness of EU companies, especially SMEs to ensure that they can benefit from procurement/ investment opportunities and secure employment and turnover growth.

### 1.3. Concept and methodology, quality of the coordination and support measures

The FIRE-IN concept is based on a 3+1 pillar concept. The three pillars serve as mutually connected cornerstones and the last pillar as the connective element (cf. Figure 3).

The **1<sup>st</sup> pillar PRACTITIONERS: Common Capability Challenges** is represented by practitioners of the FIRE-IN consortium, the Associated Experts and the wider national and international network of FIRE-IN partners that will be included into the work via workshops, interviews, and the e-FIRE-IN -platform (cf. WP4, cf. section 1.3.1). In terms of content, the pillar represents operational capability challenges to be defined and to be met by later R&D. Since FIRE-IN approaches the definition of capability challenges across different F&R thematic areas (cf. section 1.3.1) and further civil protection areas to enable modular and synergistic development, challenges will be harmonised and be described as CCCs and FCCCs, respectively.



Figure 3 - FIRE-IN conceptual pillars

The **2<sup>nd</sup> pillar RESEARCH & INDUSTRY:**

*Promising Solutions from R&D* is represented by the FIRE-IN research partners that provide the interface to the wider research community and respective networks. The latter will be involved to add content to the pillar, i.e. to support screening of research and products and in exploring mature solutions to meet the (F)CCCs. The result will include standardisation recommendations and will be included in the FIRE-IN Strategic Research and Standardisation Agenda (SRSA) to inform national and industrial programmes as well as H2020 and the next EU Framework Programme for R&I.

The **3<sup>rd</sup> pillar FACILITIES: Test & Demonstration, Training** is represented by those FIRE-IN partner organisations that provide and operate test & training sites (SAFE, ENSOSP, IMI-CNVVF, THW, CFS, CNBOP, SGSP, MSB and KEMEA). In order to enable test & demonstration of new and emerging technology as well as training for the development of skill sets to use novel solutions, these organisations will strive to establish a sustainable cooperation scheme that is planned to – at least partly – be implemented during the project's lifetime. Moreover, the project will initiate cooperation with relevant networks funded under scope c) of SEC-21-GM-2016-2017.

The **4<sup>th</sup> (connecting) pillar A SUSTAINABLE RESEARCH AND STANDARDISATION AGENDA: Ensure a continuous dialogue and dissemination** is represented by the communication and dissemination activities that FIRE-IN will implement using a sustainable network-of-networks communication approach ensuring dialogue on RDI in the field of F&R operations. This will result in a dynamic and EU wide community of F&R experts, organisations, professional associations and networks that will ensure continuous update of the FIRE-IN SRSA to feed future R&D work programmes, develop required input to standardisation activities as well as potential for Pre-Commercial Procurements (PCPs), Public Procurement of Innovative Solutions (PPIs) and joint procurement undertakings.

### 1.3.1. Five thematic areas of Fire & Rescue

The F&R discipline includes a very large variety of missions, all addressing the main issues of protecting lives, goods and the environment. The context varies from daily emergencies to large-scale natural or technological disasters, in any type of terrain and under a variety of conditions. There is no international taxonomy structuring the F&R domain and its missions. The latter are constantly changing, following the evolution of the threats (terrorism, cyber-attacks etc.) and the emergence of new hazards (nanomaterials, new fuels, new biological agents etc.). However, expert knowledge can be clustered around five distinct thematic areas of F&R which aggregate F&R practitioners around common vocabularies, procedures, skills and operational cultures. FIRE-IN proposes to start the project with working groups associated to each of the five elementary themes (cf. below and Figure 4: FIRE-IN Thematic Working Groups (TWGs) and cross-cutting tasks<sup>10</sup>. in order to simplify cooperation of AEs and to take into account distinct operational cultures. The project foresees three cycles for the

TWGs, and a review process between each cycle, allowing the evolution of the themes addressed. Obviously, there are a number of cross-cutting issues that horizontally affect all five thematic areas that are depicted in Figure 4.

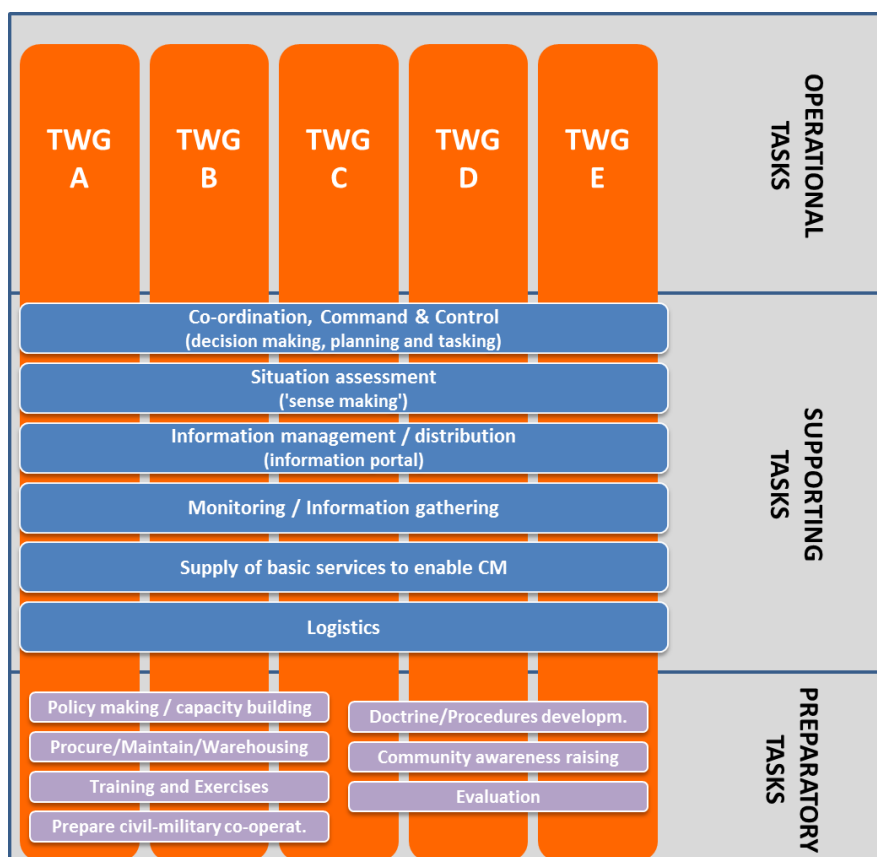


Figure 4: FIRE-IN Thematic Working Groups (TWGs) and cross-cutting tasks<sup>10</sup>.

- Thematic Working Group (TWG) A, Search and Rescue (SAR) and Emergency Medical Response (EMR).** Specific challenges for SAR include skills and capacities of localisation, stabilisation, evacuation in all terrains (water, mountains, remote and non-accessible areas) and all contexts (transportation accidents, disasters, etc.). In EMR – for the same range of contexts and terrains – challenges include triage, trauma and life support, decontamination of people, large number of victims' management (mass rescue organisation, field hospitals), transport to safe areas (ground and air transport), fatalities management. The thematic is transverse and not specific to a certain context. It concerns first responders and rescuers, as well as medical and ambulance services or civil defence units.
- Thematic Working Group (TWG) B, Structure fires crisis mitigation, prevention and protection.** TWG B will tackle the mission of extinguishing, mitigate the risk of, prevent and protect from fires involving any man-made building and structure. Challenges to be tackled include: **Mitigation:** real time intelligent warning systems; situational awareness with regard to location of people (outdoors and indoors); trustworthy fire and fire product (e.g. smoke plume) propagation models; **Prevention:** improving emergency procedures through better understanding human behavior; scenario building for fire and fire product propagation; impact of extinguishing systems; human behavior simulation; **Protection:** predicting fire behavior over different materials and using different extinguishing systems; energy efficiency; fire safe building materials; intelligent fire detection systems; integration of intelligent exit signs with real time simulation of fire propagation based on detector's data.
- Thematic Working Group (TWG) C, Vegetation fires crisis mitigation** (fires affecting forests, bush/shrub land, grasslands and other agricultural lands, peat lands and protected areas): The required expertise derives from many different disciplines and needs to meet rather diverse challenges: Fire prevention (reduced human-caused ignitions and wildfire hazard and vulnerability); fire use (use of prescribed fire for wildfire hazard reduction and wildfire suppression); suppression of wildfires (i.e. uncontrolled vegetation / wild land fires), and related public health and security

risks (e.g. through smoke pollution); specialised training and equipment of F&R services; joint operations of vegetation fire management as well as structural and HAZMAT fire management for wildfires at the interface between wild lands and rural residential or (peri-) urban areas; wildfires in vegetation contaminated by unexploded ordnance (UXO) and/or radioactivity; multiple simultaneous events management; solution for the fire suppression paradox<sup>9</sup>; societal preparedness and resilience; societal education; cross-border coordination and management has to improved dramatically.

- d. **Thematic Working Group (TWG) D, Natural Disasters crisis mitigation:** in this area changing environmental conditions (climate, demographic and technological changes) require strategic analysis and constant revision of the status quo of crisis mitigation and its effectiveness. Specific challenges include: human factors; demographic change (e.g. aging population); change of attitude towards voluntary work and related difficulties with regard to training concepts; increased need in qualifying “expert consultants” fostering operational requests for specialised units; communication with and integration of civilians; compatibility of communication devices; technology that is capable of detecting dyke strength, moisture levels and possible breakage.
- e. **Thematic Working Group (TWG) E, CBRNE crisis mitigation:** this area has to deal with long- and short-term effects of CBRNE incidents. Specific challenges include identification of substances; manufacturing, storage, transport and intentional release in terrorist attacks; measures for preventing or mitigating the effects of accidents; limiting short- and long-term negative effects on living organisms and the environment (air, soil, surface water and groundwater); protective and technical equipment; intervention tactics and decontamination; and training.

### 1.3.2. Workflow and Methodological Baseline

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- i. Practitioner-centric and scenario-based identification of current & future operational capability challenges in different F&R thematic areas.
- ii. Harmonisation of challenges across F&R thematic areas and where possible in connection to other civil protection domains in order to exploit synergies and enable modular solutions.
- iii. Screening and identification of available research solutions, products, and standards with potential to address the challenges.
- iv. Description of research needs and gaps in order to address challenges.
- v. Seeking relevant input from academia and industry to cope with the identified challenges.
- vi. Development of a Strategic Research and Standardisation Agenda (SRSA), for future F&R research including (a) descriptions of operational needs and desired solutions, (b) reference to the TRL of existing and anticipated technological systems, (c) appropriate schemes, instruments and initiatives required for operationalising research outcomes (e.g. Innovation Actions, PCPs, PPIs etc.).

Steps *i-iv* will be implemented by practitioners of the FIRE-IN consortium using additional expertise from cooperating groups of practitioners (AE community, see above) and supported further by researchers and experts available in the consortium with expertise in capability development. From step *v* onwards also other perspectives (research & industry, standardisation) will be taken into account. This way FIRE-IN can ensure the development of a SRSA based on agreement by all concerned stakeholders. In the following section we describe the different working steps in more detail.

The FIRE-IN workflow across Work Packages (WPs) to be executed in three iterative cycles is illustrated in section 3.1.1 (Figure 5: FIRE-IN Workflow).

### Identification of current & future operational challenges

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<sup>9</sup> Policies have led to a reduction of low- and medium-intensity fires in the landscape to the point of virtual disappearance, allowing fuel to accumulate and contributing to the appearance of large wildfires overwhelming response capacity.

This step will be executed by WP1. The work in WP1 will start by **defining a suitable taxonomy for structuring the capability development work**. The taxonomy will, most likely, be based on the ACRIMAS taxonomy<sup>10</sup> which will be further analysed to match the work in FIRE-IN that is more specialised and detailed in terms of required solutions. However, this taxonomy can connect the project's work to wider crisis management tasks and civil protection activities, enabling FIRE-IN to be linked with transversal thematic areas like Command & Control or Logistics.

WP1 will establish the five Thematic Working Groups (TWGs) managed by FIRE-IN practitioner partners and comprised of partners and the AEs. The different TWGs will develop a first inventory of respective current operational improvement needs that will later be translated into capability challenges. In preparation of the working groups' activities, the first step is to define the respective problem area of the individual TWGs. This will be based on available research in the different areas that will be summarised. In a next step, questions to be addressed by the TWG participants have to be derived and validated in an internal workshop. AEs for each TWG will be chosen based on the expertise required. TWG workshops, as well as potential follow-up interviews including remote involvement of practitioners through the e-FIRE-IN platform, will be designed around these questions, but also be open to incorporate new aspects previously not thought of. Results of the workshops will be analysed and **preliminary capability challenges** will be described in different aspects and dimensions (improvement opportunity, constraints, procedures and organisation, personnel, technology, related opportunities) for further analysis. As a result, capability challenges for the different F&R thematic areas will be delivered, after validation and qualification by the FIRE-IN AEs.

The project introduces a **chronological variant of three iterative cycles** to the identification and elaboration of the TWG challenges: The first cycle of TWG workshops will address current and medium-term challenges in F&R (capabilities to be implemented in a 5-10 years' time horizon). The second cycle of TWG workshops is supposed to update the findings and gaps & challenges priorities and will include further questions developed since then, in particular due to emerging threats and lessons learned. A last round of workshops also including non-practitioner experts will define future challenges (10-15 years' time horizon). Based on a literature review, a set of relevant future threats (related to new processes, new materials, newly identified hazards, new forms of terrorism, climate change etc.) to be dealt with by F&R practitioners will be defined. Based on available methodologies (e.g. ACRIMAS scenario development methodology),<sup>11</sup> case scenarios will be developed to support the workshops developing future capability challenges.<sup>12</sup>

### Harmonisation of challenges between thematic areas

This step will also be executed by WP1. Based on the current (and future) capability challenges identified for each F&R thematic area and in each cycle, **commonalities between them will be identified** in order to be able to deliver Common Capability Challenges (CCCs) and Future Common Capability Challenges (FCCCs) exploiting existing synergies between the envisaged domains. Collaboration with other SEC-21 projects will be organised in order to identify trans-discipline capability challenges that could extend synergies, improve the performance of RDI solutions, and enable modular and cross-sector development. Indeed, FIRE-IN partners are already well connected to the European F&R communities and will build on this. In a first step, the different dimensions of the challenges (see above) will be compared in order to identify similarities (e.g. different technologies might require the same organisational adaptation and thus, can be addressed partially together). Once all challenges and their dimensions are compared and analysed, they will be merged and described as CCCs and FCCCs, respectively, as the baseline for further working steps. Commonalities with other efforts such as the First Responder Group<sup>13</sup> initiative will be highlighted. CCCs and FCCCs will be

<sup>10</sup> Cf. ACRIMAS D5.1; in open access on the project website at [http://www.acrimas.eu/attachments/article/5/D5-1\\_ACRIMAS\\_report\\_Approaches\\_Solutions.pdf](http://www.acrimas.eu/attachments/article/5/D5-1_ACRIMAS_report_Approaches_Solutions.pdf)

<sup>11</sup> Cf. ACRIMAS D3.1 and D3.2; in open access on the project website, respectively at [http://www.acrimas.eu/attachments/article/5/D3-1\\_ACRIMAS\\_Threat\\_Hazard\\_Map\\_for\\_EU\\_CM%20final.pdf](http://www.acrimas.eu/attachments/article/5/D3-1_ACRIMAS_Threat_Hazard_Map_for_EU_CM%20final.pdf) and [http://www.acrimas.eu/attachments/article/5/D3-2\\_ACRIMAS\\_Scenario%20proposal%20report%20for%20EU%20CM\\_final.pdf](http://www.acrimas.eu/attachments/article/5/D3-2_ACRIMAS_Scenario%20proposal%20report%20for%20EU%20CM_final.pdf)

<sup>12</sup> The work on future challenges will go on by following step iii of this chapter.

<sup>13</sup> US-DHS Science and Technology First Responder Group, <https://www.dhs.gov/science-and-technology/about-first-responders>.

validated by the FIRE-IN AEs through the e-FIRE-IN platform (cf. WP4, cf. section 1.3.1). The result of this step will be (i) two sets of CCCs, and (ii) a set of FCCCs after being executed three times.

### **Monitoring and Screening and identification of promising research and innovation solutions**

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This step will be executed by WP2. Based on the CCCs and FCCCs defined in WP1, **potentially promising solutions to address the challenges** and to address their dimensions in terms of policy, research, technology and other resources will be identified. This will be done by monitoring and **screening the research landscape** (EU-level, national, outside EU where possible) for on-going and planned activities, **available products, operational and methodological possibilities and policy developments**. The screening will include review of available publications, interactions with representative of Research and Technology Organisations (RTOs), but also being involved in other projects' activities such as workshops, conferences, and demo events. On-going or existing standards, relevant for the CCCs and FCCCs will also be identified and highlighted.

Results will be achieved by using and combining the knowledge and expertise of the FIRE-IN partners, by performing desk research concerning the current situation and ongoing (technical) developments, and by consulting experts.

Results of the screening will be structured according to their maturity and further research required: e.g. product = ready to use; TRL 7-9 = qualification through test & demonstration under operational conditions required; TRL > 6 = Innovation action or PCP/PPI required; TRL < 6 = Research action required. R&D information will be enriched by providing background information (e.g. definitions and trends); ideal capability situation, especially the ideal situation within 5-10 years; problems that can be solved; residual risks (based on the CCCs and FCCCs) and other relevant information.

### **Description of research needs**

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This step will also be executed by WP2. It will merge the information previously developed and will produce a **draft Strategic Research and Standardisation Agenda** (dSRSA) describing (i) operational challenges (CCCs & FCCCs); (ii) available R&D solutions and products including their maturity level, (iii) R&D actions required including Horizon 2020 instruments and necessary expertise, (iv) research and standardisation priorities.

### **Taking-up of relevant input from academia and industry**

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This step will be executed by WP3. Based on the dSRSA, experts and representatives from industry and academia relevant for the research prioritised will be invited to share their ideas with regard to the dSRSA. They will be requested to elaborate the – so far solely practitioner driven – dSRSA and contribute the **supply side perspective** as well as potentially novel ideas not considered previously by the consortium members and AEs. Industry & academia experts will be selected based on their interest for a **“FIRE-IN request for ideas”** issued by the FIRE-IN consortium and describing the R&D priorities to be discussed. Selected experts will be invited to present mature ideas addressing challenges that are prioritised for the respective FIRE-IN call during the annual project dissemination workshop. Based on the workshop input and the participants' feedback the different aspects of the dSRSA will be reassessed and refined and dissemination actions will be channelled through the e FIRE-IN platform.

### **Development of a SRSA for Fire & Rescue research & standardisation**

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The result of the process as depicted above will be the FIRE-IN Strategic Research and Standardisation Agenda (SRSA) that will be a roadmap for future F&R and civil protection research including (i) description of solutions needed; (ii) descriptions of available and desired TRL; (iii) research actions and instruments required.

The FIRE-IN SRSA will be “issued” three times in a row along the project duration. The first issue will include highest priority research recommendations (based on practitioner judgement) for upcoming research programmes (next Secure Societies Work Programme, national research and industry programmes). The second issue will deal with equally important research, but with recommendations of lower temporal priority and will include recommendations concerning newly emerged threats or newly emerged practitioners' safety issues. The last issue of the FIRE-IN SRSA will deal with gaps & challenges to address future threats (10-15 years' time horizon) and will be based on the expert (scenario-based) workshops executed in WP1 (cf. section

(i) of this chapter). The recommendations of the FIRE-IN SRSA could be incorporated into H2020 and other future R&I programmes.

### **Methodology for recruiting experts and expertise**

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As there is no official structure or description of the F&R community or relevant sub-communities or networks to recruit experts for the TWGs, FIRE-IN will make an effort to structure this group of expertise highly relevant to the project's success. First, based on the identified problem areas for each TWG, identification of individual experts will be done via TWG leaders' (and other partners') networks. A database will be developed to structure and organize information of the available expertise and further enriched by review of publications, websites, communication channels (incl. social media). After this first identification phase, the TWGs managers will qualify the networks by pertinence and relevance for the project according to their level of expertise and level of interaction with the project. Focal point will be identified as *node players* (key players, actors in publication, interaction with several networks) depending on their personal network and their capability to access a large group of practitioners.

#### **1.3.1. An evolving and inclusive approach**

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The R&R practitioner community is fragmented and complex. In each local, regional, and national context different structures, hierarchies, links between practitioners and industry and research, and different types of expertise can be found. At the same, the knowledge to identify key capability gaps can be found in the individuals' capacity of learning and innovating while facing complex emergencies. FIRE-IN will harvest and disseminate this knowledge so that results will be based on **broad involvement** of all necessary stakeholders.

**Practitioner involvement** will start by setting up TWGs whose early participants will be recruited from FIRE-IN partners' networks. The composition of the 2<sup>nd</sup> and 3<sup>rd</sup> cycle TWGs will be based on a more sophisticated analysis, as described under 1.2.3. Individual participants of the network will represent all types of F&R and civil protection organisations from all over Europe. As it is expected that important additional knowledge potentially comes from non-English-speakers, FIRE-IN will ensure the involvement of the entire AE community through remote participation, on-line meetings and surveys in local languages, supported by local partners and by the e-FIRE-IN platform. Further, in order to better connect and reinforce already existing channels, results will be disseminated among a variety of national and EU-level formal and informal networks.

**Research & Industry involvement** is ensured by the activities of WP1 (in particular T1.3 on FCCCs), WP2, WP3 and supported by WP4 (e-FIRE-IN). The direct involvement of the FIRE-IN partners in research and industry networks and associations (e.g. DG HOME CoU, EOS, EENA, EARTO, ETPIS – see Annex 2 - Related networks, initiatives and platforms already linked to FIRE-IN) will greatly facilitate the involvement of RTOs in the implementation of the FIRE-IN project and the operation of the network. WP2 will not only conduct an analysis of existing research related to the CCCs and FCCCs defined, but it will also contact relevant (past, on-going and future) projects and organisations for gathering relevant input. WP3 will make sure that very concrete input from the supply side is being taken into account by releasing a "FIRE-IN request for ideas" to meet CCCs and by taking up and highlighting those ideas in the final SRSA. On the whole, **FIRE-IN will spend more than 30% of its budget on interaction with research & industry**<sup>14</sup>, thereby delivering an important contribution towards pushing forward the development of an integrated practitioner-research-industry-community and common culture for F&R and beyond.

FIRE-IN will adapt each of the three cycles according to what has been learned so far, to missing expertise, and to potentially changing threats and challenges. In this way FIRE-IN makes sure that – over the comparatively long project duration – lessons learned from conducting the project and up-to-date developments in F&R requirements and policy can be incorporated in both a proactive and

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<sup>14</sup> Interaction activities are to be found in tasks 1.3, WP2, WP3, 50% of task 4.1 and 4.3, and task 5.2 (through the IAB – 30% of the task). More detailed calculation is given in section 3.4.1. of this document.

reactive way to incorporate practitioner and societal needs.

### 1.3.2. Quality of the coordination and support measures

FIRE-IN partners are either practitioners in the area of F&R and Civil Protection or provide service and technical/methodological support to practitioners in this area. Most members of the consortium have years of experience in the coordination of national or European networks of experts and/or are engaged in collaborative environments dealing with innovation, regulation and harmonisation. The quality of the support measures in FIRE-IN will be ensured, first of all, by the quality of the involved organisations. In detail the FIRE-IN consortium consists of:

- **3 practitioner associations** gathering practitioners or practitioner organisations in F&R and Civil Protection (SAFE, CBSS, CAFO),
- **4 practitioner organisations** providing direct first response (IMI-CNVVF, THW, CFS, MSB),
- 2 organisations providing **education and training** in F&R and Civil Protection (ENSOSP, SGSP),
- 3 organisations providing **specific service** (knowledge, information) to practitioner organisations dealing with F&R and Civil Protection (GFMC, PCF, CNBOP),
- 4 organisations providing **policy and methodological support** to practitioner organisations and others - technology screening, capability development, innovation management, network animation (EU-VRi, FhG INT, KEMEA, INNO)

The following describes particular aspects relevant to the high quality of the coordination and support measures provided by FIRE-IN in its four conceptual pillars:

**1<sup>st</sup> pillar PRACTITIONERS:** FIRE-IN will establish a **Pan-European network-of-networks** that ensures sharing of information and best practices in F&R and Civil Protection. The network will be designed to promote a harmonised vision related future developments and to inform public services, industry and academia about current and future challenges to be addressed. This will be achieved in close relation with existing networks, platforms or initiatives (see Annex 2) in order to share available knowledge and gained expertise. The existing national platforms serve as national hubs that will mirror the Pan-European Network at national (and local) level.

**2<sup>nd</sup> pillar RESEARCH & INDUSTRY:** The Pan-European network will – facilitated through its research partners and their networks and organisations (e.g. Fraunhofer being the largest organisation for applied research in Europe) – not only to connect practitioners, but also practitioners with research and industry. This will help to gather State-of-the-Art information on available research results and improve their accessibility. Applying a well-established methodology for capability development to the F&R realm will help to further develop innovation culture in practitioner organisations and integrate the operational and the research side.

**3<sup>rd</sup> pillar FACILITIES:** No less than 9 FIRE-IN partners are running training and education sites. These partners have not only long-standing experience in organising and carrying out skill development, but they have also a significant interest in collaboration between them and with additional sites of that type.

**4<sup>th</sup> (connecting) pillar A SUSTAINABLE RESEARCH AND STANDARDISATION AGENDA:** The five years of the project will end with, as main result, a **proven process for F&R capability-driven research programming** based on a wide network of practitioner and researchers working in the field of F&R. Other “products” of the project are the components of the FIRE-IN SRSA. At the start of the project, the consortium has already anticipated that the outcomes of the project shall be sustainably operated using existing structures. As explained in task 4.4, most of the project activities shall be taken over by SAFE cluster with the support of EU-VRi operating the European Technology Platform on Safety and Security.<sup>15</sup> Therefore, EU-VRi and SAFE will work together and with the consortium and key AEs to propose a business model for exploiting the project results before the end of the project (cf. 2.3.1).

**International Advisory Board (IAB):** Specific guidance and advice will be provided by the IAB gathering renowned actors and stakeholders in the discipline (see WP5), but also from research and industry,

<sup>15</sup> Former ETP on industrial safety ETPIS, [www.industrialsafety-tp.org](http://www.industrialsafety-tp.org)

ensuring the relevance and appropriateness of the coordination and support measures planned and taken in such a complex, changing and challenging environment.

Building up on best practice – the e-FIRE-IN platform: the project will benefit from the development and the use of the e-FIRE-IN platform, which will provide the capability to share FIRE-IN knowledge and information taking into account ownership constraints or intellectual property rules (IPR). The platform will be based on the French collaborative platform PNRs (National Portal for Resources and Knowledges <http://pnrs.ensosp.fr>) developed by ENSOSP, which is actively used for more than 6 years by the French National Fire-Fighter Officer School to manage different thematically clustered communities in France (around 100 fire services with more than 25.000 fire-fighter officers) and to share lessons learnt and good/best practices.

### 1.3.3. Sex and Gender analysis in the project

Gender equality is a common value of the European Union, as outlined in the “Strategy for equality between women and men 2010-2015”. FIRE-IN is committed to **include a gender perspective in all applicable activities** and will involve both women and men (example: in the AE pool, IAB). At the consortium level, positive steps will be taken to ensure women and men are involved in the implementation and management structure of the project.

## 2. Impact

### 2.1. Strategic impacts

The key strategic impact sought by FIRE-IN is to **realign the RDI initiatives in F&R and Civil Protection in the EU towards a practitioner-driven perspective**. This new approach is built around enabling the involvement of F&R practitioners in the consistent identification, definition and mapping of relevant needs and requirements across the EU. **The establishment of the envisaged FIRE-IN network will support the development of a common innovation culture between practitioners, researchers, and industry** and provide the opportunity for representatives of industry and research to **aggregate innovative ideas and technological know-how with experienced F&R experts and operational actors** in context of a cooperative and interactive scheme. The medium and long-term impact of this new paradigm would be the improved **F&R security services to the EU citizens and the more efficient protection of life, environment and property from relevant hazards**. FIRE-IN network plans to **improve the national and European Fire & Rescue (F&R) capability development process, fostering user-driven research and innovation** in this domain.

Furthermore, the impact of FIRE-IN is guided by the following prerequisites:

- Endorsement of the need for innovation in F&R by practitioners;
- Common understanding of the innovation potential of novel solutions coming out of research;
- Elaboration of a comprehensive approach to capability-driven research;
- Adoption of a network-of-networks based cooperation strategy for sustainable and continuous sharing of information on operational needs and research outcomes;
- Establishment of a cooperative framework of practitioners who can support field tests, demonstration and training to R&D results;
- Coordination between National Contact Points of R&D across Europe and practitioners in F&R for enabling capability-driven research combined with practitioners’ involvement;
- Developing sustainable and constant engagement of F&R practitioners in innovation;
- Cooperation with existing professional networks and associations that can boost the performance of the FIRE-IN capabilities to identify challenges and share information on capabilities to address current hazards and manage emerging threats; and
- Cooperation with European and international organisations for developing harmonised roadmaps

of future R&D.

The approach that FIRE-IN will use to ensure the above is delivered is by providing a continuously updated Strategic Research and Standardisation Agenda (SRSA) that will aim to shape innovation management of F&R organisations across the EU and over the next decades. Such a strategy will also improve the **competitiveness of the European industry** and strengthen the **innovation** capacity of the European security community.

### **A shift of operational thinking in Europe associated to innovation based capability development**

The operational and organisational activity of the F&R discipline in the EU is associated with safety requirements and liabilities that are normally competing with innovation and modernisation. Therefore, for years European Fire Services, although equipped with adequate technological solutions, lagged behind the state of the art solutions for addressing problems and issues of F&R. The FIRE-IN project aims to **build a new landscape of cooperating operational and RTD actors**, which will support the penetration of innovation and cutting edge technology into the F&R practices. Based on a virtual organisational structure FIRE-IN will ensure interactions and synergies between research, industry and operations across EU. The planned result and impact is to **facilitate novel solutions to become operationalised by F&R organisations** and to be considered when a new concept of operations is defined. FIRE-IN also seeks to enhance the technological and scientific arsenal of the EU Fire Services, Emergency management organisations and Civil Protection agencies in order to be prepared to address the changing landscape of natural hazards and the emerging threats linked with international terrorism and geopolitical issues. The F&R discipline is associated with the security of EU societies that are at risk when capability challenges remain unaddressed. FIRE-IN will foster security levels by supporting the uptake of new technologies, solutions, procedures and concepts that will meet relevant practitioners' needs.

Thus, the project outcome will provide **recommendations and guidance for a future security research agenda** to be considered in context of the EU Framework Programmes, national research programmes, industrial development initiatives, and standardisation road maps. The novelty will be that the **envisaged solutions will be selected for further research and development activities as well as for test & validation by F&R practitioners and domain experts on the basis of concrete requirements and detailed needs**.

### **FIRE-IN practitioner network engagement impacts**

As described in the previous section, FIRE-IN shall cover all mission types addressed by the F&R discipline (see 1.3.1). Within each of these thematic areas covered, FIRE-IN will organise activities to identify capability challenges and analysing the potential of transversal issues. Experts involved (FIRE-IN Associated Experts (AE)) will represent the European F&R community and those actors that are potentially involved in the same emergency or disaster: Public, private, and volunteer practitioners; different organisations (public services, private practitioner companies, insurances, risk owners, NGOs); different professional profiles (fire brigades, Law Enforcement Agencies (LEA), paramedics...). Interaction between practitioners and AE will be facilitated by focused workshops and iterative events. They will be supported by the FIRE-IN International Advisory Board (IAB), providing further scope to enhance and further extend the impact of the network and contribute to the project dissemination actions (see WP5 for preliminary list of names). This community will go beyond Europe: the existing international connections, agreements, collaborations of the project partners will strongly support the building of the AE community in a short time. The project will seek to also gather inputs from non-EU regions such as US First Responders initiative or Australia, New Zealand, Canada, Japan, South Korean etc. FIRE-IN partners have already established networks of cooperation with practitioners from these regions and these contacts will be used in context of the network activity in order to gather information, disseminate findings and explore RDI cooperation and potential frameworks (e.g. H2020).

To ensure a maximum impact of the project in the field of security, collaboration with other disciplines will be organised and facilitated, in particular those potentially involved in the same context of emergencies or disasters such as LEAs, explosive specialists or border guards. For this purpose, FIRE-IN will establish interaction with other Pan-European and regional networks that will be funded under the SEC-21-GM topic. Furthermore, national meetings organised by the project partners will provide the occasion to invite and interact with representatives from other disciplines and get relevant feedback concerning scientific

approaches and RDI capabilities and potential on topics of common interest. The FIRE-IN Annual Dissemination Events would provide the ideal opportunity to engage with other actors and F&R stakeholders allowing all thematic experts to share the findings and conclusions thus creating the conditions for identifying complementarities and developing synergies.

### Supporting EU policy implementation

FIRE-IN activity will be aligned to the EU Civil Protection regulations and Directives as they are considered in the Treaty of Lisbon (TEU). This alignment shall facilitate and foster the network's outcome to be considered and integrated in relevant decisions and policies of the Union's Civil Protection Mechanism (UCPM). The TEU created new competencies in the field of Civil Protection in which the EU can intervene to improve the EU's ability to respond in natural or man - made disasters. TEU Article 196 on the function of the EU enables it to take measures on Risk Prevention Preparedness of the Civil Protection services, Intervention in cases of natural or man – made disasters, Operational cooperation within the Union between national Civil Protection services and Consistency in international Civil –Protection work. Besides, these Civil Protection orders are connected with the solidarity clause of the Treaty's Article 222. This clause enables the EU to assist a Member State in case of a terrorist attack, a natural or man – made disaster.

The EU strategy on emergency prevention and response is represented by the UCPM<sup>16</sup> and its relative instruments. Among the main objectives of the EU Civil Protection is to create a unified European approach of EU Member states and participating states to the system of prevention, early warning, the availability of information on emergency and effective response to arising emergencies. The FIRE-IN network of F&R practitioners will support the operations and contribute to the improvement of the European Union CPM.

Many of the AE and project partners are involved in activity of the UCPM contributing to the European Emergency Response Capacity (EERC) pool of resources, equipment and capabilities directly related with F&R activity. The expertise and experience of the UCPM modules is considered a great factor for identifying F&R challenges as well as for evaluating related solutions proposed by the Industry and RTD performers. There are 18 types of relevant modules registered to the EERC that combine technology and professional capabilities directly linked to F&R missions<sup>17</sup>. FIRE-IN, in context of the TWGs (B, C ,D and E) will consider identifying challenges and analysing the needs and requirements related to the respective UCPM modules and shall investigate the contribution of RDI to improve their capabilities.

Focused discussions in context of the FIRE-IN TWGs will have impact to decisions and elaboration of policies by the UCPM concerning specific issues such as the integration of RDI results in the F&R modules, eg. development of Remotely Piloted Air System (RPAS)-equipped UCPM modules, which is currently examined by DG ECHO. Similarly, FIRE-IN workshops in TWG A related to EMR shall consider to contribute to the RDI potential related to improving the capabilities of European Medical Corps organized by ERCC based on voluntary contributions of medical teams and equipment made available by the MS to be rapidly deployed and provide medical assistance and public health expertise for emergencies inside and outside the EU.

Prevention is of key importance for protection against disasters and requires further action as called for in the Council Conclusions of 30 November 2009 and in the European Parliament Resolution of 21 September 2010 on the Commission's Communication entitled a "Community approach on the prevention of natural and man- made disasters". The FIRE-IN TWGs shall consider challenges and needs that should be addressed for improving the performance of prevention in context of the F&R activity. RDI contribution to strengthening prevention will be examined in context of the workshops of the network and the conclusions and recommendations will be forwarded to F&R and research planning policy instruments.

In order to share results, conclusions and recommendations and influence policy and decision making mechanisms, FIRE-IN shall keep links with the Permanent Network of National Correspondents (PNNC) of DG ECHO, established since 1987, for strengthening Community cooperation on Civil Protection. This network serves as a forum of practitioners' experts who meet for exchanging of information and discussing initiatives

<sup>16</sup> DECISION No 1313/2013/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 December 2013 on a Union Civil Protection Mechanism

<sup>17</sup> Modules HCP, MUSAR, HUSAR, FFFH, FFFP, AMP, AMPS, FHOS etc.

in the field of Civil Protection. Therefore, it will be a focused recipient of FIRE-IN conclusions and output aiming to maximise the political impact of the practitioners' network.

FIRE-IN will also support the “Pan European Fire Strategy 2020 - A safer Europe for all. Strategy” that is contributing to the strategy “Towards a stronger European Disaster Response”. It will help maximise the impact of the EU's contribution to alleviating the suffering of the victims of disasters inside the EU and across the world. The strategy defines the basic objectives in the areas of: EU citizen Safety, Fire Fighter Safety, Sharing of good practice, Crisis management/Stronger EU Disaster Response.

The EU and its MS play an important role in ensuring the safety outside Europe. The United Nations (UN) and the UN agency OCHA (Office for the Coordination of Humanitarian Affairs), in its strategy highlights the need to increase preparedness and mutual assistance during disasters caused by climate change / floods, hurricanes, forest fires, droughts, but also on complex emergencies such as armed conflicts, terrorism and the associated migration crisis. e-FIRE-IN will make it possible to seek comprehensive and innovative solutions adequate to address new and emerging threats.

### **An enhanced security in Europe through capability-driven research programmes**

FIRE-IN will build on strong interactions with European RTOs as well as industries in order to facilitate mutual understanding of demand and supply and accessibility of research outcomes. The project will take great care of selection the right expertise on either side (practitioners for TWGs in WP1, research and industry through careful screening and selection of ideas in WP2 and 3). This end to end approach will spread awareness on F&R challenges and capabilities among several types of stakeholders across EU. Thus the impact of FIRE-IN project towards a new cooperative and structured scheme of research planning, which will be challenge-driven and capability-based will be ensured.

A critical element in maximising the impact of the project is blending the F&R practitioners with the RDI community in a consistent and efficient manner. FIRE-IN has defined an adequate procedure for achieving this. Following the identification of existing challenges and residual risks by the practitioners representing the demand side and the screening of existing technologies and solutions to identify persisting gaps, a “**Request for ideas**” procedure will be launched that will open the gates of the network to the community of supply side of researchers, academia and industry representatives in order to “crash-test” their eventual solutions against the envisaged challenges. Such open procedures are expected to ensure the participation of the supply side and to guarantee a wide range of approaches and solutions to address relative challenges. Indeed, the Request for Ideas process represents one of the key tools that FIRE-IN will use to engage and interact with the RTD community to strengthen the alignment of the European R&D with the practitioners needs. The expected impact will be both short and medium term. The aforementioned activities will be supported by the **e-FIRE-IN platform** and established connections of the consortium members with European mechanisms, associations and initiatives (in particular SAFE as H2020 Secure Societies NCP, FhG-INT and KEMEA as members of EARTO, GFMC member of international research networks on vegetation fires, SGSP as Chairman of the European Chapter Coordination Group of the Society of Fire Protection Engineers...See more on FIRE-IN's connections in Annex 2).

Related to the impact is also the **set of recommendations for F&R research beyond, for the H2020 and following EU and National Research Programmes** that FIRE-IN will deliver as an outcome of its activity (**FIRE-IN SRSA**). The work undertaken by FIRE-IN will ensure a better investment of EU research funds, through setting up priorities for research, monitoring on-going projects and future proposals (eg. identification of duplications, establishing connection between projects and organisations where relevant), increase the use and exploit the results of previously funded R&D projects. NCP networks (e.g. SEREN3) will be engaged in this process.

### **Enhanced Security through the development of solutions meeting practitioners' needs**

The activities of FIRE-IN, as explained before, will contribute to monitor and screen research and innovation projects in EU and worldwide. The aim of this activity, beyond recommendations for orientation and prioritisation of research activity, is to impact upon the **uptake or the industrialisation of R&D results** and to **enable European industries and SMEs to exploit their research and development products and services and to better respond to F&R practitioner-driven market needs**. The concept of the “Request for Ideas” (to

be delivered by RTD performers) is a concrete and highly visible contribution to this enhancement and will enable FIRE-IN results and recommendations to be shared and hopefully resolved by a European wide community of academic and industry stakeholders. This interactive approach will help the EU industry and innovative SMEs to have a proven record for their solution, which in fact will strengthen their presence in the international security market outside the EU.

Additionally, indirect impact and benefits of the project will include the readiness of industries and SMEs to meet new market requirements that will generate more jobs, turnover, exports and contribute to the growth of the European economy.

Furthermore, as the project includes works on the Future Common Capability Challenges (FCCCs), the vision of innovation and research will be provided for the long term (10-15 years), this can be potentially linked with long-term impact of the FIRE-IN network activity, supporting the investment of low TRL research as well as disruptive technologies or new manufacturing concepts.

### **An enhanced security in Europe through better standardisation efforts**

The security in Europe also relies on efficient and coherent standards to frame the F&R activities, process, equipment, and infrastructures. The project results will integrate recommendations for priorities as regards domains requiring more standardisation; FIRE-IN will thus support the introduction of EU-wide standards where relevant and will be ready to provide expertise and resources to ad-hoc CEN and CENELEC Technical Committees. The impact of recommendations stemming from the project will be ensured by the interaction with standardisation bodies organised by the project partners: EU-VRi (Industrial Safety), KEMEA (Security solutions), CNBOP and SAFE (Fire and Rescue equipment and solutions).

## **2.2. Contribution towards the expected impacts listed in the work programme**

The following table outlines the expected impacts according to the SEC-21-GM call text and describes how the FIRE-IN project shall achieve them. The Key Performance Indicators (KPI) set up will be monitored according to the sound methodology and metrics that will be developed in WP5.

<p><b>Expected impact 1:</b>  <b>Common understanding of innovation potential, more widely accepted understanding, expression of common innovation and standardization needs among practitioners in the same discipline.</b></p>
<p><b>Contribution from FIRE-IN:</b></p> <p>FIRE IN will be based on structured discussions and exchange of knowledge and expertise between a wide number of practitioner representative and domain experts. Among them approximately <b>70 Associated Experts (AE)</b> will be selected to participate regularly in the activities of the project. AEs will be grouped in 5 TWGs defined by FIRE-IN in the discipline of F&amp;R, and will meet physically in each cycle (three cycles during the project lifetime) of the project to identify capability challenges. The capability challenges defined in each TWG will be analysed and refined into CCCs and FCCCs shared between the different groups (WP1). The conclusions will be used for providing recommendations and request prominent ideas and solutions on research, innovation and key technologies (WP2 and WP3). The e-FIRE-IN platform will be a key element for the success of a wider involvement of practitioners in Europe in the activities of the project (WP4). These activities will be further supported by inputs from the IAB.</p>
<p><b>Main target indicators:</b></p> <ul style="list-style-type: none"> <li>• A large, open, multi-status, European and international, associated expert community – <i>Target: 500 AE</i></li> <li>• Associated experts from different geographical areas involved in physical workshops of the project and regularly contributing – <i>Target: 70 associated experts (14 AE, 5 TWG)</i></li> <li>• Engagement of International Advisory Board members</li> <li>• The definition of capability and challenges covering the entire Fire and Rescue discipline – <i>Target: 5 thematic groups; and evolution during the project lifetime if needed.</i></li> <li>• A transversal approach covering training and education, policy and regulation, command and control and other horizontal issue.</li> <li>• Structured discussions organised in each thematic group through physical workshops and animated by FIRE-IN consortium: <i>Target: 15 physical workshops (5TWG and 3 cycles) involving</i></li> </ul>

- 14 associated experts (AE) per group involved (1st and 2<sup>nd</sup> cycles);
- 10 AE + 2 representative of industry + 2 representative of research (3<sup>rd</sup> cycle),
- Remote workshops, surveys and discussions organised through e-FIRE-IN platform – Target: interactions organised permanently with an increase of activity foreseen during the 2nd and 3rd cycles)
- Summary of discussion organised by each TWG for each cycle to ensure a common and accepted understanding of the identified needs amongst each group – Target: one summary per group per cycle, and dissemination of results through the e-FIRE-IN platform
- Structured discussion organised between the 5 TWG in each cycle to identify Common Capability Challenges – Target: 1 common workshop and further interactions, per cycle, in presence of the TWG leaders
- Interaction between TWG leaders and activities in WP2 and WP3 including interactions with the academia and industry actors to contribute to the Strategic Research and Standardisation Agenda - Target: organised in the three cycles, during the whole project lifetime

**Expected impact 2:**

**More articulated and coordinated uptake of innovative solutions among practitioners from different disciplines who are often called to act together to face major crisis.**

**Contribution from FIRE-IN:**

FIRE-IN will organise through WP1 and WP4 the collaboration with other security disciplines, by interacting with all the SEC-21-GM networks, National and European associations of security practitioners and NCPs. F&R is one discipline which however includes different missions that are all taken into account in the project methodology through the TWGs of which the results will be coordinated with the CCCs and FCCCs.

**Main target indicators:**

- A large, multi-status, European and international, associated expert community – Target: 500 AE
- Organised activities (workshops – remote or not- and interactions) with other disciplines' networks – Target: interaction in each of the three cycles
- Organisation and participation in the Annual Dissemination Events

**Expected impact 3:**

**More efficient use of investments made across Europe in demonstration, testing, and training facilities for first responders.**

**Contribution from FIRE-IN:**

The project shall focus particularly on training activity related to the familiarisation of practitioners with RDI capabilities as an instrument of organisational and operational improvement. This does not simply refer to specific solutions but also to the capability challenges driven research. FIRE-IN includes experts in the fields of training and testing for first responders within each thematic area. It will be evaluating the possibilities of training and optimisation (WP1) and training experts will be involved in a continuous dialogue and dissemination (WP4).

**Main target indicators:**

- Involvement of training organisations in the project - Target: 6 partners of the project are significant training organisations (ENSOSP, THW, EU-VRI, CFS, MSFS, MSB) and involvement of further actors
- The issue of training and simulation is included in each thematic area – coordination of AE around this horizontal issue for exchanging information and providing joint recommendations, notably for a better response of training equipment manufacturers to the current needs of rescue organisations;
- Activation of the network training capacity as regards new technologies and joint training of individual fire and rescue services organizing hand on demo events in cooperation with RTD performers.

**Expected impact 4:**

**Synergies with already established European, national and sub-national networks of practitioners, even if these networks are for the time being only dedicated to aspects of practitioners' work unrelated to research and innovation (in general, to the coordination of their operations).**

**Contribution from FIRE-IN:**

FIRE-IN will develop a F&R network of existing networks of experts from various fields and countries aiming to develop mutual professional discussions (WP1) supported by the e-FIRE-IN platform allowing the understanding of the needs, requirements and persisting challenges as they are identified by the wide FIRE-IN community of practitioners, including existing national and European networks (WP4).

**Main target indicators:**

- FIRE-IN will build a large European and international, associated expert community – Target: 500 AE

- AEs from different geographical areas involved in physical workshops of the project and regularly contributing – *Target: 70 associated experts (14 AE, 5 TWG) identified partly with the support from existing networks*
- Interaction with existing networks through the e-FIRE-IN platform and participation from the project partners in external workshops and activities during the project lifespan
- Activities of communication (WP4) dedicated to raise awareness about FIRE-IN amongst other networks
- Dissemination of results of the project through various channels described in the relative section
- Effective interconnection of existing professional networks and exploitation of their potential

**Expected impact 5:**

**An improved and professionalised NCP service, consistent across Europe, thereby helping simplify access to Horizon 2020 calls, lowering the entry barriers for newcomers, and raising the average quality of proposals submitted.**

**Contribution from FIRE-IN:**

FIRE-IN will provide material that will support a better understanding from the NCPs, project leaders and new comers of the F&R practitioners' expectations. e-FIRE-IN (WP4) will offer a consultation desk for the future H2020 and national project leaders for challenging practitioner ideas and making recommendations for upgrading the relative research topics. It will offer permanent interaction capabilities between practitioners and RTOs and shall contribute to reduce the barriers and difficulties of mutual understanding.

**Expected impact 6:**

**Improved engagement and interactions with the academic and especially the industrial actors to accelerate the exchanges and quality of transfer of research/ideas into products, services and processes.**

**Contribution for FIRE-IN**

FIRE-IN will provide multiple level of cooperation opportunities with the most important target groups that will have an influence on the project impacts (decision and policy makers). RTO representatives are expected to play an important part in the various TWG and other Advisory Board actions. On the other hand, specific efforts will need to be directed at engaging with industry actors. Some partners such as Pole Safe have industrial actors in their memberships whilst others such as INNO manage networks (ECCP) where industry actors are very active via cluster intermediaries. FIRE-In processes such as the "Request for Ideas" will provide a platform to engage RTD actors in the network activity while giving them in return the opportunity to elaborate and shape their ideas in cooperation with the FIRE-IN Practitioners community.

### 2.2.1. Barriers for achieving expected impacts

FIRE-IN project results will influence the future direction of security research innovation and standardisation in the EU, including on the Horizon 2020 Programme and national security research programmes. However, there are a number of external factors that could influence its impact:

- **Political commitment:** Apart from important political changes resulting from the democratic systems or from engagement in external conflicts, the EU relations are expected to remain stable and committed to cooperation, all the more so on scientific cooperation, an area which is generally preserved from external factors.
- **Fragmented F&R practitioner landscape in Europe** – is a reality but by developing a clear and transparent FIRE-IN concept that allows for third party engagement we believe that the FIRE-IN partners can engage with the broad spectrum of practitioner actors.
- **Multi-stakeholder engagement** implies the possibility of conflicts of interests in terms of priorities, interests and open innovation /co-creation cultures. By sharing capability challenges, research and innovation agendas etc. the consortium believe that FIRE-IN can establish an open, sustainable and transparent dialogue process.
- **Industry engagement** will be encouraged through the "Request for ideas" concept and will allow companies of all sizes (large companies and SMEs) to engage with the project. The regional networks, procurement processes will also provide a stepping stone to engaging with these important actors to deliver the expected impacts.
- **Regulatory issues** or specific policies regarding e.g. IP and competition policies, protection of specific technology sectors and anti-trust measures. This is a potential barrier for exploitation of project results. For instance, some recommendations might be less relevant to one country given a restrictive regulation.

The discussions on standards may help advance these issues.

- **Confidentiality and IP protection:** with increasing interconnectivity comes concerns about confidentiality of, data. There are concerns about Intellectual Property (the core value of many companies), and also commercially sensitive data such as financial customer data, etc. In addition, the modalities of the protection of IP assets may widely diverge between academia and industry, notably SMEs. FIRE-IN will manage the IPR and information sharing issues according to the relevant guidelines and recommendations of the EC for R&D projects (as a CSA project).
- **Cultural and language barriers:** the e-FIRE-IN Platform will provide a first step to overcome eventual cultural barriers. Language issues will be addressed by the partners in their regions and representative networks experience such as partner CBSS (Council of Baltic Sea States) will ensure these issues are tackled proactively in the dissemination and communication actions that are proposed.

## 2.3. Measures to maximise impact

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Measures to maximise the project's impact are transversal to all WPs, and supported by:

- **Dissemination activities** designed to make the project outcomes visible and accessible to the targeted audience and to different types of stakeholders;
- **Exploitation activities** conceived to enhance the results' exploitation to the broadest uses and users in a replicable and sustainable fashion;
- **Communication activities** devoted to the promotion of the FIRE-IN network objectives, activities and achievements in a clear and comprehensible way to the broader public.
- **High profile outputs in terms of the engagement processes such as the regular "Request for ideas" activity and the Annual Dissemination Events where success stories can be presented**

### 2.3.1. Dissemination and exploitation of results

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#### 2.3.1.1. Dissemination and exploitation strategy

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The dissemination strategy and channels will represent one of the key pillars of the FIRE-IN network's success: it will support the FIRE-IN network's activities, will address all stakeholders relevant for and possibly interested in the FIRE-IN network's activities and results, and continuously share information useful to the FIRE-IN community, their partners and beyond.

The dissemination and exploitation strategy shall make use of the H2020 projects communication best practices guidelines and follow the 6W approach: What, Why, When, hoW, Where and to Whom to disseminate/to communicate. The objectives will be to:

- **Raise awareness:** Develop a high visibility of the FIRE-IN network (attracting a high number of stakeholders interested in the development, AEs, etc.);
- **Promote:** Promote the innovative solutions and capability challenge opportunities to the European community of F&R stakeholders;
- **Inform:** Make the outcome developed through the FIRE-IN network available to focused target groups;
- **Engage:** Motivate the FIRE-IN network's target groups to provide relative input and feedback;
- **Exploit:** Enhance activities of the FIRE-IN network and ensure sustainability.
- **Deliver target/impacts** via for example the "Request for Ideas" concept

These activities **will directly contribute to the sustainability** of the FIRE-IN network and to the replicability of the project methodology and processes.

The existing international, trans-disciplinary, thematic connections and networks of the FIRE-IN project's partners will provide a strong support to the dissemination activities.

### 2.3.1.2. Partners' specific roles

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As WP4 leader, ENSOSP will lead the continuous dialogue and dissemination activities. ENSOSP is the lead partner regarding the development and animation of a key tool for dissemination of project results: the **e-FIRE-IN platform**, that shall ensure continuous dialogue and dissemination toward the project dissemination target audiences. CBSS will take the lead on the other dissemination and communication activities and develop the strategy supported by the project partners, set up the right mechanisms and tools for maximum visibility and impact, and implement an online campaign for all project activities, based on the information provided by the leads of each activity. **All other project partners will be involved in the dissemination and communication activities** on a regular basis, contributing to editorial choices and engaging their direct networks. The partners will play a key role in particular by disseminating some results in their country's official language thus ensuring the capability to reach the whole European F&R community that is often a non-English speaker.

Key other partners that will be involved in the dissemination actions include for example:

- Pole SAFE will utilise its status as French NCP to disseminate and share information among the EU NCPs as regards the FIRE-IN activity and results
- EU-VRi as European Grouping of Economic Interest will communicate about the project towards its 50+ members, and as operating agent of ETPIS towards the 800+ registered stakeholders of ETPIS. In addition, EU-VRi is supporting the Society for Risk Analysis Europe ([www.sraeurope.org](http://www.sraeurope.org)) and the European Safety and Reliability Association ([www.esrahomepage.eu](http://www.esrahomepage.eu)) for their website, and therefore will use this channel also to contribute to the dissemination actions.
- KEMEA: as National Authority in Greece for the Protection of Critical Infrastructure will disseminate the FIRE-IN findings of their interest among the relevant Greek community of CI operators (mentioned as Risk Owners in this proposal), while also they will share information with the Committee of the European Programme on Critical Infrastructure Protection (EPCIP). Furthermore, as member of ENLETS (Law Enforcement) and EARTO (Research and Technology) associations KEMEA will link the FIRE-IN activity with the relative stakeholders.
- CBSS as a manager of a multiState network will be able to introduce dissemination actions into a broad geographical area
- The Global Fire Monitoring Center will use its position as Chair to engage with other international partners and thematic networks;
- CAFO will ensure participation and dissemination through FEU members and Fire and Rescue partner organisations in Europe.

The FIRE-IN partners are all well placed to contribute via these varied skills sets and their relevant links to networks and initiatives, further described in Annex 2 (Related networks, initiatives and platforms already linked to FIRE-IN), to the design and implementation of an innovative and dynamic needs-driven dissemination strategy.

### 2.3.1.3. Targeted audience

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At the proposal stage, partners have identified 7 main groups of stakeholders to be involved in the FIRE-IN network's activities, including:

- **Practitioners**, including public actors (fire and emergency services, local, national regional) and private actors (eg. private fire services, ambulance services, private rescue services as automobile clubs, fire engineering companies, insurances...) as well as associations and NGOs (such as Red Cross & Red Crescent, Mercy Corp, Johanniter, MSF international), Sea Rescue association, ANIMS...
- **Research and Technology Organisations (RTOs)**, will be involved in all key WPs either through their contribution to the Advisory Board or in responses to the Request for Ideas;
- Industry and industry association as **Risk Owners**, which are operators of hazardous installations and critical infrastructures;
- **Industries and services to Industry**, which are able to develop Innovative solutions, contribute to and respond to the CCC's and the Request for Ideas

- **Standardisation Bodies;**
- **Policy-makers and RTD programme owners;**
- **NCPs and other SEC-21 projects (coordinators, partners and project's network).**

Each of these groups will be addressed with specific messages, specific offer and specific tools and even services, tailored to their specificities and the required impact (cf. Table 4). Each consortium partner will be responsible for reaching out to different groups and ensure cultural and language barriers do not undermine the capacity to deliver impacts across Europe.

#### 2.3.1.4. Dissemination tools and channels

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**Dissemination tools** are all material used to present the content of the project to an external audience. **Dissemination channels** are all media through which the project results are communicated and relayed to the target audiences.

Some of the dissemination tools and channels are:

- **Online Dissemination:** The FIRE-IN network's e-platform, acting as a main repository for the FIRE-IN project outputs and resources, will offer a first and key access point for interested stakeholders. It is aimed to become a point of reference for information related to F&R. Besides, the project will have its own e-newsletter (10 issues) to disseminate to its networks and participants. Besides, partners will contribute to e-Journals, blogs and newsletters of other projects and contribute through direct e-mailings to their networks. A detailed description of the project will be published online on the CORDIS portal and the project website.
- **Non-electronic Dissemination:** Public materials will provide a detailed description of the project findings (and their wider societal implications). Other Publications will focus on the dissemination of the FIRE-IN network's results, mainly to targeted groups.
- **Annual dissemination workshops:** organised each year during the project duration in a relevant place, the events will contribute to disseminate to the attendees (physically) and online attendees (online) to provide with detailed and documented information on the project progress and results and offer an important opportunity for interaction (question of the audience or by remote, meetings) and attraction to participate or continue their participation to the e-FIRE-IN platform and other activities. Some of the most innovative ideas stemming from the Request for ideas (WP3) could also be showcased. The audience should be a mix of the different target audiences of the project, including policy-makers / research funding organisations at national and European level to ensure exploitation of project results and recommendations. They will also provide an ideal opportunity to engage with the other SEC21 project partners.
- **Physical Interactive Dissemination** (face-to-face meetings, events...): This channel of dissemination will offer a chance for personal interaction in innovation, technology and scientific conferences, trade fairs and exhibitions and in face-to-face meetings with relevant stakeholders such as researchers and entrepreneurs, but also with national innovation, trade and funding agencies. The participation in external events will increase the Network's visibility and impact, develop synergies with related initiatives and programmes.

FIRE-IN will also use the active participation of several members of the consortium in **existing networks** (TIEMS, CTIF, FEU, ECCP, and EARTO<sup>18</sup>) for dissemination and via NCPs (more information in Annex 2).

Lastly, a specific attention will be dedicated **to reach stakeholders which are not usually involved** in Fire and Rescue networks at European level by the wide promotion of the Request for Ideas, a novel approach to engage with SMEs and RTO's beyond traditional practitioner groups.

#### 2.3.1.5. Expected impact of the dissemination activities

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The services offered by the FIRE-IN network will be oriented to the needs of the practitioners. Not only will the best technologies and techniques be used to disseminate project outputs, but constant

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<sup>18</sup> Refer to the Table of Abbreviations in Annex 1 and Table of networks in Annex 2 for full name of organisations.

monitoring and in depth evaluation will also be undertaken and carried out. Table 2 shows the expected impact of the dissemination activities:

**Table 2: The Expected Impact of the Dissemination Activities**

Dissemination activities	TARGET STAKEHOLDERS					
	Practitioners	RTOs	Risk Owners	Services to Industry	Standardization Bodies	Associations and NGOs
<b>FIRE-IN Platform</b>	150 registered participants expected by M18 (end of the first cycle as for WP1). Target: 500 to 800 participants at M60 Constant flow of publications in the different groups and platform's modules (agenda etc.)					
<b>FIRE-IN Public Website</b>	600 unique visitors expected by M18 (end of the first cycle as for WP1)					
<b>Project events Workshops Webinars</b>	> 50% Practitioners	> 20% RTOs		> 20% industries and representatives	> 5% Risks Owners	> 5% Standardisation Bodies
	N. of participants at each of 5 annual dissemination event: 70 (physically) + 100 (remote)					
<b>Participation in external events</b>	Contribution to external events organised by the European and National organisations Target indicator: 48 events minimum					
<b>Annual Dissemination Event</b>	Five high profile events will be organised to share and disseminate results - Invitations will seek to open attendance beyond the project activities Target reach new stakeholders, gather new participants to the AE network					
<b>Project publications</b>	Publications in blogs, website, platform or groups like LinkedIn but also off line journals Articles and online contributions made on and offline > 10 per month					
<b>Outreach - overall</b>	Over 600 stakeholders covered by each outreach campaign, via FIRE-IN partners' outstanding network and dissemination strategy targets (FIRE-IN database + visitors) – at M30 Over 1000 at M60					
<b>Calls</b>	Stakeholders informed about calls of EC based on the R&D Roadmap built by FIRE-IN > 1000					
<b>International Advisory Board</b>	High level and respected experts will carry FIRE-IN message to their own networks and enhance credibility and sustainability of FIRE-IN actions and long term results					

### 2.3.2. Communication activities

Communication activities within FIRE-IN will deal mainly with two issues:

- Raising awareness about the project through electronic and non-electronic means, as well as through interactive and non-interactive activities, like maintaining the project platform, annual dissemination events, presentation in social media, etc.
- Actively promoting project results and Request for Ideas and other relevant engagement actions to deliver the project impacts

A detailed **Dissemination and Communication Plan** will be developed in the early stage of the project and act as a guide for the project partners on how to promote the project and maximise its impact by using the promotional tools and dissemination channels. This will include: a “key stakeholders” mapping exercise, identification of the main FIRE-IN's messages, an external communications plan detailing the tools and channels to be used to communicate with each stakeholder and a timetable with identified responsibilities and deadlines. The creation of a **visual identity** in the early stage of the project will help to secure a strong and unique brand, and thus the consortium will proceed with the creation of a project logo and templates for written communications.

The FIRE-IN consortium are committed to setting up and maintaining the **project website and the e-FIRE-IN platform**, both throughout as well as after the project lifetime, which will be the main communication tool for the dissemination of the project and FIRE-IN network information. The consortium will also engage the utilisation of **social media** for the dissemination of information, and thus create accounts on the main socio-professional networks as LinkedIn and Twitter from where public important information will be disseminated. One of the main objectives will be to channel users towards the e-FIRE-IN platform.

To optimise the FIRE-IN network communication, 11 instruments have been initially identified and will be developed in detail in the relevant work packages by experienced partners:

**Table 3: Communications Instruments and their Procedure**

#	Instrument	Procedure
1	Visual identity	Included on all communications to clearly identify the project
2	Website	Included on all communications Highly ranked and linked from external sites
3	e-FIRE-IN platform	Targeted and restricted communication and dissemination towards practitioners, industries and academics, other SEC-projects... Will be used to promote and disseminate: results of CCCs and FCCs identification, promote the Request for Ideas (industries & RTOs), support the research monitoring and screening, publish results, support the organisation of events.
4	Promotion Materials	Flyers: Electronic & hard copies; hard copies for the use at events and at the events where the Network partners present the project Posters: for the use at the Network events/workshops and external events
5	Project e-newsletters and e-mailings	Project e-newsletter (on semester basis) to communicate, raise awareness, dissemination public results; additional target e-mailings to be performed by the project or its individual partners via project partner networks and/or broad database of contact for specific communications (on events, at milestones...)
6	Annual dissemination events	They will be the occasion to raise awareness about the project's activities and results and leverage supports /participation to the project activities, with large audience (or more targeted, potentially varying from a year to another).
7	Publications	Publications from the project in other project newsletter or in specialised journals
8	Networks and partner channels	Communication of project activities and outcomes via networks – personal contacts, partner projects. Building of a general database of contacts for the project.
9	Webinars	Online session to present FIRE-IN (activities, results) and attract users / contributors to the platform and project activities
10	Participation in events	Network workshops and presentations of FIRE-IN at relevant international conferences, national events...
11	Social Media	Exploitation of the power of social networks in order to enable a more active dissemination towards the community (e.g. account on socio-professional networks, LinkedIn groups on H2020 Secure Societies etc.)

The FIRE-IN network targets its specific stakeholder groups by different communication instruments:

**Table 4: Communication objectives**

Groups of stakeholder	Communication objectives	Instrument used
Practitioners	Raise interest in the FIRE-IN network's activities and provide opportunities to contribute to end-user driven research programming – invite practitioners to visit and contribute on the e-FIRE-IN platform	All tools mentioned above are relevant to this group.
RTOs	Engage research and innovation actors & Collaborate on specific (funding) programmes to contribute to the development of technological solutions and services answering the practitioners' needs	All tools mentioned above are relevant to this group.
Risk Owners (operator of critical infrastructures)	Raise the interest of risk owners so that they actively participate in the projects resulting from the end-user driven research programming and they may invest in the future funding programmes	Specific communication targeting such industries (specific events, networks).
Innovative industries and services to Industry	Inform them about the needs of Practitioners, involve them in the projects answering needs of Practitioners and offer business opportunities	Specific targeted communication for the "Request for ideas" via industry networks, e-FIRE-IN and public website, and targeted e-mailings.

Standardisation Bodies	Enable Practitioners to play an active role in standardisation by informing them about the mechanisms of standardisation and by sharing results with standardisation bodies	Very targeted communication (e-mailings, specific events)
Policy makers and programme owners	Influence future research programmes and promote the SRSA developed by FIRE-IN	Especially the dissemination events, project presentation in targeted policy events (external), and direct targeted e-mailings.
NCPs and other SEC projects coordinators and partners	Dissemination of the SRSA.	Dissemination events, dissemination via key partners' contacts, publications / contribution in project newsletters, and direct targeted e-mailings.

### 2.3.1. Initial Business Model and Business Plan for the Network

As indicated in Section 1, the FIRE-IN consortium is committed to the long term sustainability of the project's impacts and has already held discussions on how this objective can be achieved. These discussions have resulted in the identification of two partners (at least) willing to commit to supporting the future operation of FIRE-IN. The ongoing exploitation of the results will be performed thanks to the commitment of SAFE and EU-VRi as operating agent of the Cross-European Technology Platform on Industrial Safety (ETPIS). After the 5 years of the project, the network of practitioners and the mechanism for collaboration will remain operational as activities organised and performed by SAFE and EU-VRi/ETPIS at least. During the project a detailed business plan will be developed, based on discussion with the FIRE-IN network participants. Currently the partners – based on current activities and given the value added services that FIRE-IN will deliver – believe that a service based on a membership fee model would be feasible. However, also DG ECHO, applying the Decision No 1313/2013/EU of the European Parliament and of the Council of 17 December 2013 on a Union Civil Protection Mechanism and its implementing rules<sup>19</sup> open on an annual base calls for projects supporting and complementing the efforts of participating states and eligible third countries in prevention and preparedness in civil protection and marine pollution focusing on areas where a common European approach is more appropriate. This could be a suitable arena also to ensure the sustainability of the network activity as well as for providing transparent access and information to its members to join the relevant DG ECHO procedure.

SAFE and EU-VRi will develop and propose different options for operating procedures of FIRE-IN after the end of the EC co-funding, in line with the missions and activities of the project. SAFE and EU-VRi envisage to integrate the activities developed within FIRE-IN into their missions and usual services for their members and stakeholders. The latter will strongly benefit from using the experience already gained in supporting sustainable structures coming from EU funded projects such as:

- the continuation of the ERANET SAFERA in the field of industrial safety originated by EPTIS and the support of EU-VRi, with a formal partnership gathering 21 partners from Ministries, research funding agencies, and industry associations which have agreed to continue the launch of joint call for proposal after the end of the ERANET<sup>20</sup>.
- the creation of a European Centre for Safe Innovation and Risk Management in the field of Nanotechnologies, originated within the NanoSafetyCluster.<sup>21</sup>

The expertise and knowledge gained during these activities can be leveraged to estimate operation costs and identify several options for potential sources of revenues. Other partners will provide their experience in managing EU wide networks and help identify the nature of value added services necessary for their sustainability. These options will be reviewed and discussed with the consortium, key AEs, and the EC so that the proposed model will receive the support from a large community.

<sup>19</sup> (C(2014)7489 final

<sup>20</sup> The 3rd call is on-going, see <http://call.safera.eu/> ; also see <http://safera.industrialsafety-tp.org/> .

<sup>21</sup> [http://www.nanosafetycluster.eu/uploads/NSCMeetings/Docs/Paris/2015/Frejafon\\_EC4SafeNano\\_NSC\\_Presentation\\_corrected.pdf](http://www.nanosafetycluster.eu/uploads/NSCMeetings/Docs/Paris/2015/Frejafon_EC4SafeNano_NSC_Presentation_corrected.pdf) at <http://www.nanosafetycluster.eu/nsc-meetings/nanosafety-cluster-meeting-paris-2015.html>

Furthermore, several exploitable assets are foreseen and various options are examined and expected to be enhanced during project implementation. The **pool of FIRE-IN assets** that are expected to be exploited well-beyond the completion of the project comprises: (i) The **FIRE-IN Web site** that will be maintained at least 24 months after the project completion and will remain open for consultation. (ii) The **e-FIRE-IN Platform** is at the heart of the future Business Plan as the hub for network communications and will be maintained according to the BP; (iii) Various **communication tools** such as the **Webinars** (recorded), Success stories/good practices and other materials (info-sessions...), **the (F)CCC process, the Request for ideas methodology** and practitioner network animation.

Thus, after the project, the FIRE-IN network and organisation will actively continue its activities and contribute to enhance the relevance and usefulness of national and EU research by directly contributing to the development of innovative solutions answering the needs of practitioners from the field of F&R.

## 3. Implementation

### 3.1. Work plan- work packages and deliverables

#### 3.1.1. Presentation of the overall structure of the work plan

The overall structure of the work plan can be summarised as shown in the following figure:

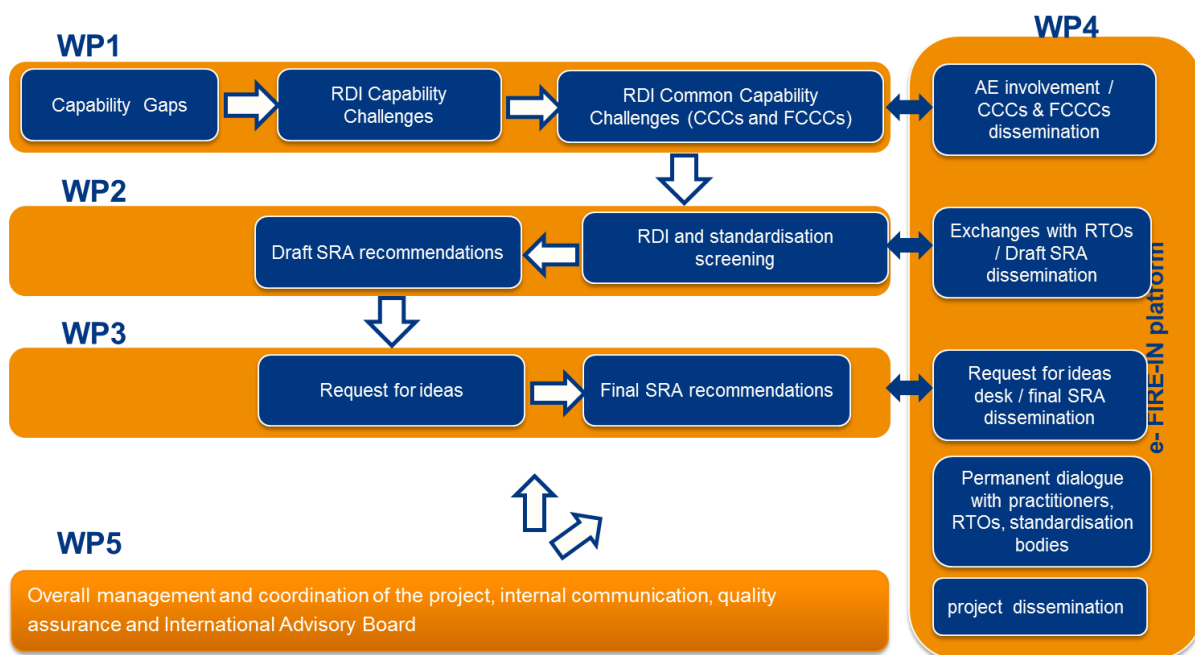
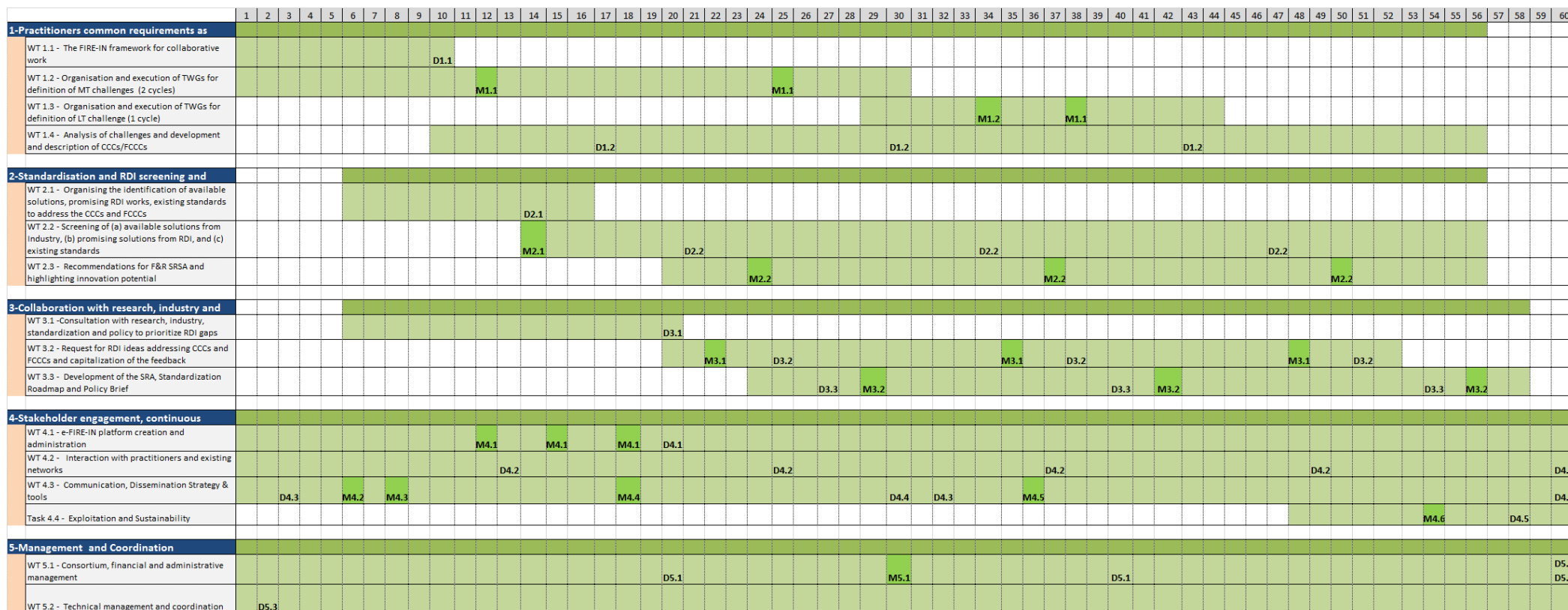


Figure 5: FIRE-IN Workflow

### 3.1.2. Timing of the different work packages and their components - Gantt chart



### Figure 6 - FIRE-IN GANTT Chart

### 3.1.3. Detailed work description

#### 3.1.3.1. WP 1 – Practitioners identification of capability challenges as regards innovations

Work package number	1	Start date or starting event					M1	
Work package title	Practitioners identification of capability challenges as regards innovations							
Participant number	1	2	3	4	5	7	8	9
Short name of participant	SAFE	ENSOSP	CNVVF	THW	GFMC	FhG-INT	PCF	CFS
PM per participant	8	9.75	20.25	10.5	11.25	9	3	20

Participant number	11	12	13	14	15			
Short name of participant	SGSP	CBSS	MSB	KEMEA	CAFO			
PM per participant	3	3	13	12	14.25			
Start month	M1			End month		M56		

#### Objectives:

WP1 shall

- Organise and coordinate the participation and involvement of EU F&R practitioners as Associated Experts (AE) in the project works (workshops and participation through e-FIRE-IN platform)
- Shape and implement the process of capability gaps & challenges identification and prioritisation as well as of defining CCCs and FCCCs.

#### Description of work

##### Task 1.1. The FIRE-IN framework for collaborative work [FhG-INT; SAFE; CFS; MSB]; Month 1-10

A common framework to organise taxonomy, methodology, workflow in tasks 1.2 and 1.3, respectively, and analysis of the results of TWG workshops (task 1.4) will be defined. The work will support the preparation phase, the workshops management, analysis of outcomes and the results publication and dissemination through the e-FIRE-IN platform (WP4). As the work in TWGs is organised by five operational themes and a cross-TWG analysis, the workshop management methodology shall plan (i) gathering, structuring, and analysing TWG workshops and outcomes as well as (ii) harmonising the outcomes across TWGs to define and describe Common Capability Challenges (CCCs) and Future Common Capability Challenges (FCCCs) in multiple dimensions. The analysis methodology will address operational tasks as well as cross-cutting tasks (cf. Figure 4), covering all phases of the crisis management cycle.

##### Task 1.2. - Organisation and execution of TWGs for definition of medium terms challenges, including application of network typology (2 cycles: 1<sup>st</sup> and 2<sup>nd</sup> cycles) [CFS; SAFE; ENSOSP; CNVVF; THW; GPMC; FhG-INT; PCF; SGSP; CBSS; MSB; KEMEA; CAFO]; M 1-30

This task includes a) the thematic working groups (TWGs) establishment and organisation; b) the TWGs workshops management by implementation of the FIRE-IN framework.

a) The TWGs shall be established at the start of the project and revised after each cycle. Each will include 14 practitioners.

For the first cycle, the TWGs will be:

- TWG A, Search and Rescue (SAR) and Emergency Medical Response (EMR). Managed by CFS, with ENSOSP, CNVVF, Pole SAFE and CAFO.

- TWG **B**, Structure fires crisis mitigation, prevention and protection. Managed by **CNVVF**, with ENSOSP, CAFO, SGSP, MSB.
- TWG **C**, Vegetation fires crisis mitigation. Managed by **GFMC**, with CFS, PCF, MSB and KEMEA.
- TWG **D**, Natural Disasters crisis mitigation. Managed by **THW**, with MSB, CNVVF, CFS and KEMEA.
- TWG **E**, CBRNE crisis mitigation. Managed by **CAFO**, with ENSOSP, SGSP, KEMEA, CNVVF.

The partners will collect data that will be used for the workshops (review of publications on capability gaps & challenges, emerging threats & evolution of the disasters due to climate changes, lessons learnt, safety and health issues) and define the TWG problem areas. Data concerning emerging threats or new hazards / risk will be collected and provide to the TWG, the practitioners will evaluate in the TWG the impact of those new threats on their missions and their capabilities. Scenarios will be prepared for each thematic, including these mid-term F&R issues. The TWGs managers will select from the AE community the practitioners invited in the workshops. Their involvement will be organised and preparatory works will be implemented following the FIRE-IN framework. The other AE experts will be involved through the FIRE-IN platform (WP4).

b) The FIRE-IN framework will be implemented for each of the two cycles. The cycles will not be only consecutive but will be crossing. One workshop per TWG will be organised and managed per cycle (M10 and M26), supported by remote interactions with the other AE through the FIRE-IN platform (WP4). The different TWGs will develop the first inventory of respective current operational improvement needs based on capability gaps (1<sup>st</sup> cycle), and complementary inventory (2<sup>nd</sup> cycle). Results of the workshops will be analysed, thematically structured, and preliminary capability challenges will be described. Those capability challenges for the different Fire & Rescue thematic areas will be delivered, after validation by the FIRE-IN associated experts (workshop or in writing).

**Task 1.3. - Organisation and execution of TWGs for definition of long terms challenges, including application of network typology (1 cycle: 3<sup>rd</sup> cycle) [CFS; SAFE; ENSOSP; CNVVF; THW; GFMC; FhG-INT:1.5; PCF; SGSP; CBSS; MSB; KEMEA; CAFO]; M 39-44**

This task includes a) the last cycle the TWGs preparation; b) the TWGs workshops management by implementation of the FIRE-IN framework.

a) The TWGs shall be established, including 12 practitioners + 2 researchers + 2 industry representatives for each. The partners will collect data that will be used for the workshops, by research publication review and interaction with research bodies, including JRC European Crisis Management Laboratory (ECML). Those data will concern potential emerging threats, potential emerging hazards (from coming technologies or processes), potential impacts on disasters of the long terms evolution of climate. Scenarios will be prepared for each thematic, including these mid-term F&R issues. The TWGs managers will select AE involved and the representative of research and industry; their involvement will be organised. Preparatory works will be implemented following the FIRE-IN framework. The R&I community will be invited to support the last cycle of TWG workshops through the FIRE-IN platform (WP4).

b) The FIRE-IN framework will be implemented for organising the work of the thematic groups with the workshops organised at M42. The different TWGs will develop the inventory of respective future operational improvement needs based on future capability gaps. Results of the workshops will be analysed, thematically structured, and preliminary future capability challenges will be described. Those future capability challenges for the different Fire & Rescue thematic areas will be delivered, after validation by the FIRE-IN associated experts (workshop or in writing).

**Task 1.4 - Analysis of challenges and development and description of CCCs/FCCCs [SAFE; ENSOSP; CNVVF; GFMC; FhG-INT; CFS; CAFO] M 10-56**

The consolidated capability challenges and future capability challenges produced will be reviewed by all TWG managers under the coordination of SAFE and with important support from FhG-INT, in order to

identify commonalities between the results of the 5 TWG (CCCs-1<sup>st</sup> and 2<sup>nd</sup> cycle, FCCCs 3<sup>rd</sup> cycle). Additional synergies will be identified by a permanent interaction with other security practitioner pan-European networks by SAFE, CNVVF, KEMEA, CBSS as they work closely with the wider civil protection, LEAs, Border Guards communities in their daily activities as well as commonalities with other works such as the one of the First Responder Group Initiative (US Department of Homeland Security) and the International Forum to Advance First Responder Innovation of which MSB is a member. CCCs and FCCCs will be described and validated with collaboration of the AE through the e-FIRE-IN platform (WP4). Further, this task will organise continuous connection between WP1 results (D1.2), including potential clarification that might be needed, and WP2 and WP3 and thus continue until the end of the other WP.

#### Deliverables

- D1.1. FIRE-IN framework (lead: FhG-INT with contributions from SAFE, CFS, MSB); M10
- D1.2. Report on current and future common capability challenges (CCCs and FCCCs) (lead: SAFE with contributions from ENSOSP, CNVVF, GFMC, FhG-INT, CFS, CAFO); M17, M30, M43

### 3.1.3.2. WP 2 – Standardisation and RDI screening and identification of the potential and relevant implementations

Work package number	2	Start date or starting event					M6	
Work package title	Standardisation and RDI screening and identification of the potential and relevant implementations							
Participant number	1	3	5	6	7	9	10	11
Short name of participant	SAFE	CNVVF	GFMC	EU-VRI	FhG-INT	CFS	CNBOP	SGSP
PM per participant	9.5	3	0.75	5.5	10.5	1.5	3.25	3.25

Participant number	12	14	13	16				
Short name of participant	CBSS	KEMEA	MSB	INNO				
PM per participant	3	6	13	2.5				
Start month	M6			End month		M56		

#### Objectives

WP2 shall organise the screening of on-going and planned Research, Development & Innovation (RDI) activities, available products and standardisation activities that are promising to address priority CCCs and FCCCs as defined in WP1. The work will address EU, national, and international activities. The WP will highlight the State of the Art (SotA) per CCC or FCCC, define the ideal situation, and what is missing to achieve the latter. The time horizon for CCC-implementation will be 5-10 years, for FCCC-implementation 10-15 years.

#### Description of work

##### Task 2.1 – Organising the identification of available products, promising RDI works, and standards to address the CCCs and FCCCs [FhG-INT; SAFE; EU-VRI; CNBOP; SGSP; INNO]; M6-M16

This task shall plan the procedure for the RDI and Standardisation screening at EU, national, and international level based on CCCs and FCCCs priorities as defined in WP1. It will define the framework, dimension of the screening and analysis parameters, plan the work, and define research areas and players to be included, based on interactions with WP1 and the analysis of the first results of WP1. The screening will include R&T publications review as well as interactions with research agencies, NCPs, RTOs, networks of RTOs, projects coordinators etc. It includes also the screening of existing technologies and evaluation of the potential of technologies addressing other markets that could be adapted for the F&R uses.

**Task 2.2 - Screening of (a) available solutions from Industry, (b) promising solutions from RDI, and (c) existing standards [FhG-INT; SAFE; CNVVF; GFMC; EU-VRI; CNBOP; SGSP; CBSS; KEMEA; INNO); M14-M56**

This task will implement the RDI and Standardisation screening procedures and plan defined in T2.1. for each of the (3) cycles defined in the project and based on the top priorities of the CCCs and FCCCs. Results will be structured in order to identify the level of correspondence between expectations and SotA, the level of maturity of the solutions (TRL) and further research required. Collaboration with the network SEREN3 will be organised in order to include national RDI visions in the analysis. In addition, this task will ensure the collaboration with standardisation networks and bodies, through direct interactions made by partners linked to those bodies (SAFE, EU-VRI, CNBOP, KEMEA).

**Task 2.3 – Recommendations for F&R Strategic Research and Standardisation Agenda and highlighting innovation potential [SAFE; EU-VRI; FhG-INT; CFS; CNBOP; SGSP; KEMEA]; M20- M56**

Based on the evaluation of the CCCs and FCCCs coming from WP1 and the results of the screening coming from T2.2., and supported by interactions with the RTOs through e-FIRE-IN, this task shall develop for each of the (3) cycles a coherent F&R draft Strategic Research and Standardisation Agenda (dSRSA). The propositions will define the path to evolve the current operational structures, training and procedures, practices, equipment and tools of F&R services in EU in relation to the technology potential and the research capabilities of the European RDI community. The roadmap will define ways to introduce and use RDI outcomes into the fire service operations and establish ways that the FIRE-IN network may share their operational needs and requirements with other practitioner networks, the Industry, the Research and EC policy makers. It will provide also information on and descriptions of (a) solutions needed, (b) descriptions of available and desired TRL, (c) research and development actions and instruments (e.g. Innovation Actions, PCPs, PPIs etc.) required to achieve higher maturity and innovation.

**Deliverables**

- D2.1 Methodology for RDI and standardisation screening (note) (lead FhG-INT, contributions SAFE, EU-VRI, CNBOP, SGSP, INNO) - M14
- D2.2 RDI and standardisation screening report (lead FhG-INT, contributions SAFE, CNVVF, GFMC, EU-VRI, CFS, CNBOP, SGSP, CBSS, KEMEA, INNO), M21, M34, M47

### 3.1.3.3. WP3 –Collaboration with research, industry and standardization bodies and recommendations

Work package number	3	Start date or starting event				M1
Work package title	Collaboration with research, industry and standardization bodies and recommendations					
Participant number	1	6	7	9	10	14
Short name of participant	SAFE	EU-VRI	FhG-INT	CFS	CNBOP	KEMEA
PM per participant	8.5	4.5	7	3	9	12
Start month	M6		End month		M58	

**Objectives**

The objectives of this work package are the following:

- Combine the output of WP1 and WP2 aiming to identify technologies and solutions with high operational value and potential for industrial uptake
- Establish procedures and interactive cooperation schemes for collecting response of RTOs and industry suppliers to the identified CCCs and FCCCs

- Make a first assessment of the operational potential of such solutions
- Linking FIRE-IN to networks of practitioners from various disciplines in order to exchange information on common challenges and transfer technology and practices associated to issues of common interest
- Provide FIRE-IN input and recommendations to the definition of the European Strategic Research and Standardisation Agenda on Security.

### Description of work

#### **Task 3.1. Consultation with industry, standardisation and policy to prioritise RDI gaps [EU-VRI; SAFE; FhG-INT; CNBOP; KEMEA]; M6-M20**

Based on the output of WP1 this task shall plan a procedure named “Request for ideas” aiming to allow relevant R&D actors to provide their relevant RDI approach to address a particular CCC or FCCC. The plan shall define a proper scheme for using the outcomes of WP1 and WP2 and provide a consistent framework for familiarisation of the users with RDI solutions and make aware the Research and Industry of the operational needs and priorities of the F&R practitioners. Public consultation, supported by relevant tools of the e-FIRE-IN platform, with relevant stakeholders will be used to allow collecting feedback of RTD actors concerning the identified priorities of the practitioners and orientating EU industry to focus to specific operational needs. Such scheme shall use proper arguments including Operational priority (CCC), Solution maturity (TRL), industrialisation level (TTM), interoperability and standardisation aspects aiming to identify potential stakeholders and to assess prominent and efficient solutions. This task shall also define the concept of the Request for ideas: objectives, context, specifications (public consultation, showcase, PoC, demo etc), potential recipients, monitoring procedures, assessment procedures... This work will be done in coordination with FIRE-IN TWG5 managers.

#### **Task 3.2. Request for RDI ideas addressing CCCs and FCCCs and capitalisation of the feedback [KEMEA; SAFE; FhG-INT; CFS; CNBOP], M20- M52**

Following the CCCs and FCCCs identification (T1.4) and based on the input from the RDI screening (T2.2.), a **request for ideas** will be launched for each of the three cycles as described in T3.1. The requests shall be implemented in a period of six months arranged in four sub-tasks namely (i) preparation of the requests according to Task 3.1 framework and to the results of WP1 and WP2, (ii) invitation to Research and Industry to submit ideas and pre-screening of proposed ideas through the e-FIRE-IN platform (WP4) and interactions with existing networks of security industry and research (CoU, EOS, EENA, EARTO, ETPIS ..) (iii) analysis of proposals with T5 representatives and with the other FIRE-IN associated experts through the e-FIRE-IN platform developed in WP4 d. reporting and recommendations. The request for RDI ideas will be open to past and on-going projects as well as to new ideas in order to feed the RDI monitoring procedures. Based on feedback provided during this procedure, selected ideas addressing the arguments defined in T3.1 will be invited, through the FIRE-IN web platform, to further demonstrate their industrialisation potential and prove their operational capacity and maturity level. In addition, they will be invited to make a presentation during the annual dissemination workshops in front of a large panel of FIRE and Rescue Practitioners and TWG5 representatives. The feedback and results of evaluating RDI ideas will be considered in the final recommendations of the Strategic Research and Standardisation Agenda (SRSA-T3.3) and will be shared with the EC services and disseminated to the practitioners’ networks through the e-FIRE-IN platform.

#### **Task 3.3 – Development of the Strategic Research and Standardisation Agenda (SRSA) and Policy Brief [SAFE; EU-VRI; FhG-INT; CNBOP; KEMEA]; M24- M58**

Based on the evaluation of the threats and the relative CCCs and FCCCs identified, this task shall associate relevant priorities from the practitioner viewpoint linked to the output of WP1. The screening of the RDI, the gap analysis and the standardisation review in WP2 coupled with the feedback from the RTD actors will be used for assessing potential and mature approach, technologies and solutions to be considered in context of the draft Strategic Research and Standardisation Agenda elaborated in T2.3. Furthermore, this

task shall develop for each of the (3) cycles the context for building the future F&R organisations in EU, based on operational priorities and considering the industrialisation and innovation capabilities and potential as well as relative standardisation, legal and policy issues. The elaboration of the proposed ideas will particularly prioritise solutions that have the proper research potential and technological maturity to be introduced into the security market, while bearing strong societal impact. The final findings will be structured into recommendations towards the European Research Programming committees and will be included in the final version of the FIRE-IN SRSA. Those recommendations will be shared with other actors of security research programming (national research agencies, industries...) notably through the e-FIRE-IN platform. The task will not focus on specific technologies and approaches but it will rather offer a long-term vision of the industrial perspectives in the F&R operational realm, aiming to support decisions of policy makers and to optimise relative technology investments across Europe. Further, this task will also organise the dissemination of project's results, notably the SRSA, towards policy-makers, programme owners, NCPs and other relevant actors in link with WP4 and the monitoring and assessment of the impact of the SRSA.

#### Deliverables

- D3.1 FIRE-IN context for interacting with Industry and Research (EU-VRI – with contributions from SAFE, FhG-INT, CFS, CNBOP, KEMEA) – M20
- D3.2 Results of the Request for Ideas: mapping RTOs and Industry potential, response and trends related to Fire-IN CCC/FCCCs (KEMEA, with contributions from SAFE, FhG-INT, CFS, CNBOP) – M25, M38, M51
- D3.3 Final Strategic Research and Standardisation Agenda (SAFE – with contributions from EU-VRI, FhG-INT, CFS, CNBOP, KEMEA) – M27, M40, M54

#### 3.1.3.4. WP4– Stakeholder engagement, continuous dialogue and dissemination

Work package number	4		Start date or starting event				M1	
Work package title	Stakeholder engagement, continuous dialogue and dissemination							
Participant number	1	2	3	4	5	6	7	8
Short name of participant	SAFE	ENSOSP	CNVVF	THW	GFMC	Eu-VRI	FhG-INT	PCF
PM per participant	9.5	13.5	4.5	3.5	2	7	0.5	9
Participant number	9	10	11	12	13	14	15	16
Short name of participant	CFS	CNBOP	SGSP	CBSS	MSB	KEMEA	CAFO	INNO
PM per participant	2	3	3	11	3	3	2	4
Start month	M1			End month		M60		

#### Objectives

The WP 4 general objectives are:

- To design and develop a digital platform (**e-FIRE-IN**) in order to organize and maintain continuous dialogue and interactions between users' groups (practitioners, research and industry bodies) that will support the WP1, WP2 and WP3,
- To facilitate communication and interaction with other existing networks, projects/initiatives and consortia to favour dialogue on issues raised by FIRE-IN participants.
- To communicate and disseminate to the defined target audiences the main objectives, milestones, activities and outcome of the FIRE IN in a clear and concise manner.

- To ensure continuous overall awareness of FIRE-IN progress by regular dissemination of tailored communication products;
- To set up the mechanisms to ensure the sustainability of the FIRE-IN Pan-European network after the end of the project.

#### Description of work

##### Task 4.1. **e-FIRE-IN** platform creation and administration [ENSOSP; EU-VRI; PCF], M 1- M 60

This task will include:

a) A building and implementation phase (M1-18): ENSOSP, with the support from EU-VRI and PCF, shall coordinate the design and development (sub-contracted) of the **e-FIRE-IN** platform. For this, ENSOSP will be able to take the concept of the French National Portal of Resources and Knowledge (PNRS, <http://pnrs.ensosp.fr>) as a basis to build on for the **e-FIRE-IN** specifications. The interactive online platform will be designed to support the WP1, WP2 and WP3 works and will include:

- A set of interactive and participative tools (dedicated extranet for the TWGs work as part of WP1, forums by theme for the AE and RTOs);
- A module for the Request for innovative ideas (WP3);
- Dissemination tools (RSS feed, newsletters, calendar/schedule, network directory, social media) that will support WP4;
- A set of documentation modules (Publications and resources);
- A statistics module supporting the management and monitoring of the platform.
- A database for managing contacts and expertise.

Attention will be given to **graphics** and web site **ergonomics**, adapted for rapid adoption by users. In addition, several contents will be produced in the language represented by the partners.

b) The operating phase (M18-M60): the **e-FIRE-IN** platform will be administrated, maintained and updated by ENSOSP, following the activities and the evolution of the project and the requests and needs of the users as well as the WP1, WP2 and WP3 developments. ENSOSP will also manage and moderate it (help desk, FAQ...) as well as report on the platform performance and use through the monitoring.

##### Task 4.2. Interaction with practitioners and existing networks [SAFE; ENSOSP; CNVVF; THW; GFMC; PCF; CFS; CNBOP; SGSP; CBSS; MSB; KEMEA; CAFO]; M 1- M60

This task shall organise the interaction with the F&R practitioners and existing networks of practitioners through the Associated Experts (AE) community. It will include:

- a) The Associated Expert community building by identifying the F&R networks nodes and thematic practitioner experts and organise their recruitment at EU and international level (if required). This part will include also the identification and connection with the other discipline networks (other SEC-21-GM projects and other relevant disciplines in particular those involved in the F&R operations) as well as demonstration, testing and training facilities networks.
- b) The AE involvement following the FIRE-IN framework (T1.1.), through the TWGs or **e-FIRE-IN** platform, by inviting a large community of practitioners (including but beyond the 70 AE involved in physical workshops) to participate at all stage of the cycles (capability challenges, CCCs and FCCCs identification and validation; monitor the research and innovation projects; validate the SRSA recommendations). The TWGs managers (CFS, CNVVF, GFMC, THW, CAFO) will coordinate the involvement of the AE in their respective thematic. The partners involved in the TWGs will interact with the AE in their country language if required, ensuring the involvement of local AEs.
- c) The participation to international Fire and Rescue events, relevant for FIRE-IN, in order to enlarge the interactions with F&R practitioners, recruiting new AE, collect data to support the TWGs, share project results (capability challenges, CCCs, FCCCs, SRSA recommendations) – in relation with Task 4.3 activities.

### **Task 4.3. Communication, Dissemination Strategy & tools [CBSS; SAFE; EU-VRI; PCF; inno; and all other partners]; M1 -M60**

The overall aim of this task is to ensure efficient communication of project activities and results to the existing networks of practitioners, research and industry communities in security area within the EU-28 and Associated countries as well as globally. For this purpose this task will focus on following measures:

A. Development of Project Communication and Dissemination Plan – (M1-M3 and update M30-M32): it will outline all “marketing” aspects as well as details on the activities planned to raise awareness, inform and engage the different targeted groups, and promote and exploit the outputs of the project. It will deal with communication with both the first circle of the project composed of the pool of AEs and broader communication i.e. actions that will ensure proper communication with other practitioners, industry and research organisations, as well as with relevant high-level political fora. The Plan will assist all project partners in implementing their publicity activities. Several dissemination and communication channels will be included in the Plan to be exploited by the project partners, such as project web-portal (public) and **e-FIRE-IN** platform (restricted), the annual dissemination workshops, communication in relevant external events (at both international and national levels in complementarity with Task 4.2), direct (targeted) e-mailing, e-newsletters, and publication in thematic medias. The planned Communication and dissemination Plan is further described in section 2.3. of this proposal.

#### **B. Communication and dissemination actions**

This sub task is dedicated to the performance of communication and dissemination, using a project website (M6) and other promotion media and materials. Promotion materials will be designed and produced, such as: the *project/network logo*, and *leaflets*, *e-Newsletters* (issued on semester basis - 10 issues in total) which will include information about project activities/results, upcoming events, success stories about relevant RDI projects and links with industry and market commercialisation following project recommendations. The organisation of an annual dissemination workshop is also part of this task – with a first workshop in the form of a public launch and 5<sup>th</sup> workshop as final event of the project. Web 2.0 & Social network channels shall be managed with a strong interaction with key and known thematic nodes.

### **Task 4.4. Exploitation and Sustainability [EU-VRI; SAFE]; M48-60**

The objectives of WT4.4 are: 1) to set up the mechanisms to operate the FIRE-IN pan-European network after the end of the project, addressing the contractual relations, IPR issues, governance; and 2) to build a business model (BM) and to design a business plan (BP).

The Plan for Use and Dissemination of Foreground Knowledge and Sustainability will be prepared, supported by a consultation with the key stakeholders. Most of the project activities such as the RDI programming might be taken over by SAFE with the support of EU-VRI operating the European Technology Platform (ETP) on Safety and Security (former ETP on industrial safety ETPIS). EU-VRI and SAFE Cluster will draft a business plan and propose a business model that will be communicated to all partners for review (M52). These documents will define the operating procedures of FIRE-IN after the end of the EC co-funding. The BP will include the description of the missions and activities of FIRE-IN, with the estimation of the operation costs and potential sources of revenues based on a membership organisation and further map the partnerships and supports of FIRE-IN for its future activities and well as draw an indicative plan of activities.

#### **Deliverables**

- D4.1 Report on the Development of the **e-FIRE-IN** Platform and toolkit for the portal users (ENSOSP – with contributions from EU-VRI and PCF) – M20
- D4.2 Annual report on interaction with practitioners and existing networks (SAFE – with contributions from ENSOSP, CNVVF, THW, GFMC, PCF, CNBOP, SGSP, CBSS, MSB, KEMEA, CAFO) – M13, M25, M37, M49, M60

- D4.3 Dissemination and Communication Strategy and Plan – (CBSS – with contributions from PCF and INNO) - M3 – revision at M32
- D4.4 Mid-term and final report on the Dissemination activities of the project (CBSS, with support from PCF, INNO, and all partners) – M30, M60
- D4.5 Final Business Plan and Business Model to sustainably operate FIRE-IN (EU-VRi – with contributions from SAFE) – M58

### 3.1.3.5. WP5 – Management and Coordination

Work package number	5	Start date or starting event					M1	
Work package title	Management and Coordination							
Participant number	1	2	3	4	5	6	7	8
Short name of participant	SAFE	ENSOSP	CNVVF	THW	GFMC	Eu-VRi	FhG-INT	PCF
PM per participant	11	1.5	1	1	1	1.5	1.5	1

Participant number	9	10	11	12	13	14	15	16
Short name of participant	CFS	CNBOP	SGSP	CBSS	MSB	KEMEA	CAFO	INNO
PM per participant	1.5	1	1	1	1	1.5	1	7
Start month	M1			End month		M60		

#### Objectives

The nature of the project as well as number of partners involved require an effective coordination in the project and in its interactions with external stakeholders. The project management takes care that the contractual responsibilities of consortium can be technically met in required quality and time. The goal of WP5 is to plan, implement and oversee a smooth implementation of FIRE-IN with a high quality of project outcomes during the five years of the project. This WP will provide a professional project management, which pro-actively communicates with DG Home and ensures an efficient internal communication and coordination between partners and across the WPs. This WP will also ensure the quality and efficiency of the work and integrating external strategic advice in the project through the International Advisory Board (IAB).

#### Description of work

**Task 5.1 Consortium, financial and administrative management [Pole SAFE; inno; all partners for coordination meetings], Month 1-60**

This task will be performed by the coordinator with the support from inno TSD and all partners and includes a sound financial management and controlling of the project. The coordinator will be responsible for the smooth project implementation, monitoring of the work plan (in cooperation with WP leaders) and on-time delivery of deliverables and documents. In accordance with the SEC-21 call requirements, the management will ensure that reporting is performed every 6 months. Any contractual obligations and all communication with the EC happens via the coordinator.

**Consortium Management:** This task deals with the general management, the monitoring of the work progress and the production of deliverables according to the proposed time schedule. The activities planned encompass the organisation of the plenary meetings (kick-off, and 4 other consortium meetings – one per year) as far as possible back-to-back to other project meetings. The kick off meeting is planned in Aix-en-Provence M1, hosted by ENSOSP. Regular general online conferences will also be organised to complement the physical meetings between the Project Coordinating Unit (PCU) composed of the WP leaders and the project coordinators, and between the General Assembly, when necessary. A Consortium

Agreement (CA) will be elaborated before the project starts. The project coordinator will be in charge of ensuring the good interactions between the work of the different WPs, that is considered key to the project successful implementation, given that all WPs are closely interlinked and interdependent in the project. [Pole SAFE/inno]

Communication Management: An e-mail based communication flow with mailing lists of the entire consortium will be established in order to exchange information as well as to monitor the efficiency and progress of work. The project website will host an intranet that will be the main tool for sharing documents inside the consortium. Other tools for communication (like web-conferencing services) will be widely used to organise and conduct regularly scheduled project meetings/discussion. [Pole SAFE/inno]

Financial and administrative management: At the kick-off meeting, the coordinator supported by inno will ensure that all project partners have the same sound understanding of relevant rules and regulations for a smooth project implementation. Based on a detailed budget planning and monitoring, any modification will be recorded and adapted as needed. Budget monitoring will be done in cooperation with all project partners. The coordinator monitors the project cash flow based on regular reports. Reporting templates will be developed. Any further administrative issues that may come up will be managed by Pole SAFE and inno in consultation with EC, if necessary. [Pole SAFE/inno]

Reporting, communication with EC: The project coordinator regularly maintains the contact with the Project Officer and the Legal and Financial Officer at the EC and proactively communicates both formally and informally on developments related to the project via regular management reports, personal meetings or telephone calls. The project especially plan to deliver three technical reports intended to the EC as well as a Final report for restricted dissemination with an Executive publishable summary for larger dissemination purpose; and the project has planned resources for official reviews in presence of the EC. Besides, in between the formal deliverables, the management will be committed to report every 6 months about the findings of the project. A strong interface with DG Home needs to be established to react in due time and in an aligned way to new political and strategic developments. [Pole SAFE/inno]

#### **Task 5.2 Technical management and coordination [Pole SAFE; inno; all partners involved]; M1-M60**

Quality assurance (QA) [Pole SAFE/inno]: the objective of this task is to define and guarantee a process of QA for all activities that result from FIRE-IN, assure structured integration of external knowledge and management of working documents. In order to have a consistent impact assessment after each activity, it is essential to have a centralized QA task management with appropriate performance indicators. The Work task (WT) leader will, in consultation with relevant WP and other task leaders, develop further appropriate performance indicators where necessary. All indicators will be realistic, simple and feasible. At the beginning of the project, the QA leader will develop a quality assurance plan and guidelines for the production of deliverables and events. The QA process and assessment will be relevant for the following project areas: implementation of the WT and WP, accessibility of the results from the project, deliverable and reports (internal review – external review from IAB wherever necessary), workshops and dissemination events (performance indicators quantitative e.g. number of participants, and qualitative), and communication and dissemination performance.

International Advisory Board (IAB): It will give strategic guidance to the project. This includes general advice on the project strategy and methodology, quality of deliverables and activities, thematic and horizontal issues that the project should explore. The AB will also play a role in contributing to explore the exploitation potential of the project and avenues to ensure the sustainability of the project results. The AB will consist of 6 policy-advisors e.g. from industry, research or ministries: experts that are fully aware of the political scene and general scientific and industrial developments. All AB members will receive the Terms of References (ToRs) at the beginning of the project in order to understand the methodology of work. The AB will meet up to three times during the project; if manageable, this will be done back-to-back to a larger FIRE-IN event (eg. dissemination event). In addition to physical meetings, online meetings will be set up in order to ensure a constant communication.

The following IAB members have already been identified:

- **Patrick Butor**, Ministry of Interior, France – Minister-level official responsible for standards, and Convenor for ISO/TC 292 (standardisation in the field of Security) on the WG6 dedicated to protective security.
- **Geraud Canet**, Centre de l’Energie Atomique, France - Chair of the EARTO Security Working Group
- **Ann Enander**, Swedish Defense University, Sweden – Associate Professor at the Leadership Centre, Past-President of the Society for Risk Analysis Europe (SRA-Europe, <http://sraeurope.org/>) and social scientist known for her work in risk and crisis communication
- **Clive Goodchild**, BAE Systems, United Kingdom – coordinator of the EDEN project (largest CBRNe Demo project in FP7) and Member of the IMG-S Board.
- **J Javier Larrañeta**, Spanish Technology Platform on Industrial Safety (PESI), Spain – Secretary General at PESI and Member of the Executive Board of the European Technology Platform on Industrial Safety (ETPIS, [www.industrialsafety-tp.org](http://www.industrialsafety-tp.org)), in charge of the security topics
- **Javi Mulero Chaves**, German Aerospace Centre (DLR), Germany – Project Manager at the Institute of Communications and Navigation. 10 years of experience in national (German) and European projects focused on the provision of communication solutions for emergency management (EU FP7 WISECOM, e-Triage) and early warning of the population (Alert4All, PHAROS).
- **Robert Reiss**, Conseil pour la réduction des accidents industriels majeurs (CRAIM, [www.craim.ca](http://www.craim.ca)), Québec, Canada – Chairman of the Technical Committee at the CRAIM, more than 30 years of experiences in working on emergency management for the Canadian Government, Environment Canada.

#### Deliverables

D5.1 First, second and third Interim Report - M20, M40 and M60 ; Pole SAFE (WT 5.1)

D5.2 Final report | M60, Pole SAFE (WT 5.1)

D5.3 Quality Assurance Plan | M2, inno (WT 5.2)

### 3.1.3.6. List of work packages

Table 5 - List of Work packages

WP No	Work Package Title	Lead Participant No	Lead Participant Short Name	Person-Months per WP	Start Month	End Month
1	Practitioners identification of capability challenges as regards innovations	9	CFS	137	M1	M58
2	Standardisation and RDI screening and identification of the potential and relevant implementations	1	SAFE	48.8	M6	M52
3	Collaboration with research, industry and standardization bodies and recommendations	14	KEMEA	44	M1	M56
4	Continuous dialogue and dissemination	2	ENSOSP	80.5	M1	M60
5	Management and Coordination	1	SAFE	36	M1	M60

### 3.1.3.7. List of deliverables

Table 6 - List of deliverables

Del (n°)	Deliverable Name	WP	lead part.	Type <sup>22</sup>	Diss. level <sup>23</sup>	Delivery date
D1.1	FIRE-IN framework	1	FhG-INT	R	CO	M10
D1.2	Report on current and future common capability challenges (CCCs and FCCCs)	1	SAFE	R	PU	M17, M30, M43

<sup>22</sup> Codes : R: Document, report (excluding the periodic or final report); DEC: Websites, patents filing, market studies, press & media actions, videos, etc.; OTHER: Software, technical diagram, etc.

<sup>23</sup> Codes: PU = Public, fully open, e.g. web; CO = Confidential, restricted under conditions set out in Model Grant Agreement; CI = Classified, information as referred to in Commission Decision 2001/844/EC.

D2.1	Methodology for RDI and standardisation screening	2	FhG-INT	R	CO	M14
D2.2	RDI and standardisation screening report	2	FhG-INT	R	CO	M21, M34, M47
D3.1	FIRE-IN context for interacting with Industry and Research	3	EU-VRI	R	PU	M20
D3.2	Results of the Request for Ideas: mapping RTOs and Industry potential, response and trends related to Fire-IN CCC/FCCCs	3	KEMEA	R	PU	M25, M38, M51
D3.3	Final Strategic Research and Standardisation Agenda	3	SAFE	R	PU	M27, M40, M54
D4.1	Report on the Development of the <b>e-FIRE-IN</b> Platform and toolkit for the portal users	4	ENSOSP	R	CO/PU	M20
D4.2	Annual report on interaction with practitioners and existing networks and dissemination conference	4	SAFE	R	PU	M13, M25, M37, M49, M60
D4.3	Dissemination and Communication Strategy and Plan	4	CBSS	R	PU	M3, M31
D4.4	Mid-term and final report on the Dissemination activities of the project	4	CBSS	R	PU	M30, M60
D4.4	Business Plan and Business Model to sustainably operate FIRE-IN	4	EU-VRI	R	CO	M58
D5.1	First, second, third Interim Reports	5	SAFE	R	CO	M20, M40, M60
D5.2	Final report	5	SAFE	R	CO <sup>24</sup>	M60
D5.3	Quality Assurance Plan	5	inno	R	CO	M2

### 3.2. Management structure and procedures

The FIRE-IN project management structure will ensure a coherent and professional administrative and financial coordination. It will be based on best practices for an efficient central management with adequate project governing structures. The main goal of the project management is to effectively monitor and supervise the project in administrative, technical, legal and financial terms, to align the work with the overall project implementation plan, monitor available resources and timing, and to secure the necessary interface to EC services and other external stakeholders. The following management structure is proposed:

<sup>24</sup> The dissemination level of the report is restricted, the publishable summary is public.

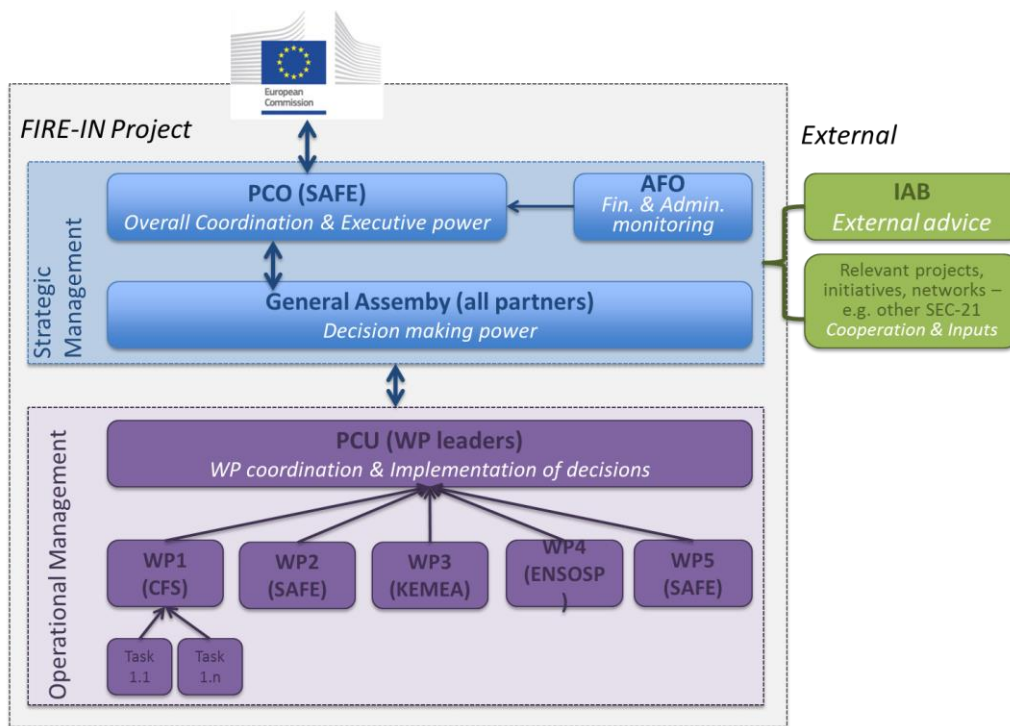


Figure 7 - FIRE-IN management structure

### 3.2.1. Management bodies

The **formal management bodies** of the project are the following:

#### Project Coordinator and Quality Manager (PCO)

The PCO has the overall responsibility for the implementation of the project. He assures the coordination of research and development tasks, smooth and efficient cooperation among partners and achievement of overall project objectives. He handles in particular the relation with the European Commission, the project quality achievements and he chairs the project general meetings as well as more restricted assemblies when necessary.

**Jean-Michel Dumaz**, Security and Defence Programs Manager at SAFE Cluster, will carry out the role of the Fire-in project coordinator with his team. SAFE Cluster has a strong record in coordinating and contributing to national and international collaborative projects involving academic and industrial partners. Jean-Michel Dumaz is in charge of innovation and technology projects management, strategic planning and Institutional and international relations coordination. He has a long-term experience in risk and safety management, and civil protection issues (more details in section 4).

Pole SAFE will be supported in its role of coordinator and quality manager by **inno TSD**, a French consulting company specialised in project management, notably management of complex industrial projects, as well as innovation management. In cooperation with all project partners, inno will monitor the budget, record any modification and adapt it if needed. inno will also assist SAFE Cluster in its reporting and communication actions with the Project Officer and the Legal and Financial Officer at the European Commission.

#### Project General Assembly (GA)

The **Project General Assembly** is a decision-making power composed of all 16 project partners and is co-chaired by the Coordinator. It acts as the ultimate decision making body of the consortium. Each consortium partner has one vote. The quorum is 50% presence in decision-making. Decisions are made on majority principle, but processes will be organised in a way to facilitate unanimity for all major decision to be taken. In case of tie-voting, the Coordinating organisation (SAFE Cluster) shall have a casting vote.

Each partner organisation will (i) ensure the execution of the work that is assigned to its personnel within the agreed timetable; (ii) secure the necessary human potential of its institution to participate in the activities and to contribute to the dissemination and exploitation measures; (iii) encourage additional national

stakeholders, government officials and other decision makers of the public and private sectors to participate in the public events and other relevant activities of the project.

### **Project Coordinating Unit (PCU)**

#### **The Project Coordinating Unit (PCU)**

The PCU is an executive power in the project. It is composed of the WP leaders and the PCO (and other important partners such as inno which is involved in the management as well as EU-VRI, FhG-INT might be invited to take part). Its main functions are to coordinate the WP activities and plan the activities in interconnection between the WPs, discuss key activities to implement such as the events and conferences and check the milestones and discuss actions and re-orientations in case there would be delays or needs for re-orientation.

#### **Work Package and Work Task Leaders**

The WP leader is responsible for the overall coordination and quality monitoring of the respective WP and ensures adherence of the time-schedule, i.e. attainment of milestones and timely submission of deliverables to the Coordinator. This includes supervision and implementation of the tasks and related deliverables. The WP leaders will collaborate and exchange views with the other WPs for an improved coordination across the project activities. They will report to the GA and to the project coordinator.

The WT leaders are responsible on the task level for the timely implementation of activities and the reporting to the WP leader. At task level operative decision-making is to be done in agreement with the concerned WP leader, as well as the participating partners. Task leaders are responsible for the development of methodology, the specific assignment of duties to individual experts involved in the respective task, the compliance with the time schedule, and for carrying out the necessary work together with the partners. They submit the respective deliverables to the Coordinator and WP leader.

#### **International Advisory Board (IAB)**

The International advisory board is a structure composed of specialists and experts from national and international Fire and Rescue networks selected for their relevance in risk management and their position in the FIRE-IN ecosystem. The IAB consists of policy-advisors e.g. from industry or ministries: experts that are fully aware of the political scene, of general scientific and research developments and of the research and innovation programmes. A list of the potential 6 IAB members is given in WP5 (see also Annex 3 with IAB letters of intent). The IAB will give strategic guidance to the project. This includes general advice, quality of deliverables, activities and horizontal issues that the project ought to explore. Terms of References (ToR) will be developed to frame the IAB related activities and procedures (i.e. specify meetings, tasks and communication channels). This advisory body will be set up during the first project months. Three physical meetings of the consortium partners with the IAB members are foreseen during the project (back to back with GA meetings), and further exchanges will be organised, on a formal or more informal basis during the project, through online and phone exchanges.

#### **Administrative and Financial Office (AFO)**

The AFO comprises one representative per partner, responsible for the administrative and financial follow-up of the project for his/her organisation. This office will provide day-to-day management assistance to the PCO. It is in particular in charge of setting up and updating the dashboard monitoring tools and realizing the financial control of the project.

### **3.2.2. Project management tools**

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Because of the fact that FIRE-IN faces a limited number of resources while it involves partners from across Europe who are not always familiar with European projects, strong management capabilities are required. In the project's lifetime, a set of management tools will be used.

- **Internal information and communication:** The communication between project partners will be organised via mailing lists, individual e-mails, telephone and videoconferencing as well as the project's intranet – useful for both daily activities as well as strategic decisions. Three physical meetings of the GA (kick-off, mid-term, final) are planned. The intranet offers all relevant project information (Description of Work, draft and final versions of deliverables, questionnaires, meeting

minutes with presentations etc.). WP5 covers internal communication issues, in close relation with WP4.

- **Knowledge management:** In order to optimise the development of the project, a knowledge management process will be applied. Being a CSA, information management, awareness raising and exchange with relevant stakeholder groups represent a key element of the project activities. The input received from External associated experts, IAB, related projects and networks, through the platform, social media, and other means will be handled and channelled towards the right actors. The internal website will act as a central knowledge repository, where all internal and working documents will be stored in an organised in an easily accessible manner.
- **Consortium Agreement:** All partners will sign a Consortium Agreement before the project starts. It will define details about the management structures and decision making process, internal deadlines, settlement of disputes / voting rules, potential intellectual property rights issues/ access to know-how, liability and defaulting contractors.
- **Quality Assurance (QA):** WT 5.2 is dedicated to ensure appropriate quality control and QA mechanisms and procedures for the observation of WPs and WTs, deliverables, reports, events and virtual activities. Standardized rules will be applied to all project related documents such as presentations, minutes, reports, press releases, etc. in order to provide consistency and reflect the project identity. An internal review system will be established to ensure the quality of deliverables before they are transferred to the AB, EC or made public. During the project kick-off meeting a draft QA plan including performance indicators will be agreed upon. It will specify in its submitted version at M3 the concrete steps each activity should go through and indicate clear responsibilities of partners. It is in the responsibility of all WT and WP leaders to check and make sure that all QA processes have been followed.
- **Milestones:** They will be used for project scheduling as they will be an early indication of potential delays. Timing of milestones will allow for a check of single activities deemed crucial to achieve major deliverables and activities. Accordingly, FIRE-IN has identified one or more milestone for each WT; an overview is given in the following table.

**Table 7 - List of milestones**

M (n°)	Milestone name	WP	Lead	Due date	Means of verification
M1.1	TWGs workshops (5) for each cycle	1	CFS	M12, M25, M38	Workshops implemented and report 1M after
M1.2	Third cycle in process	1	CFS	M34	Specific TWG tailored to the 3rd cycle set up
M2.1	Common tools and framework for RDI and standardisation screening	2	FhG-INT	M14	Tools disseminated and shared between partners
M2.2	Recommendations for the F&R SRSA – for each cycle	2	SAFE	M24, M37, M50	Recommendations gathered in a report and provided to WP3
M3.1	Request for ideas	3	KEMEA	M22, M35, M48	Request for ideas launched / disseminated.
M3.2	Final SRSA disseminated to policy and research programme actors	3	SAFE	M29, M45, M59	Assurance that the SRSA was received by target actors and dialogue is engaged
M4.1	Experimental implementation of the e FIRE-IN platform	4	ENSOSP	M12, M15, M18	Three acceptance tests of the platform done before final implementation
M4.2	Effective project website	4	CBSS	M6	Project website available online
M4.3	Communication materials	4	CBSS	M8	Disseminated to partners and ready for use
M4.4	Third e-newsletter	4	CBSS	M36	Three e-newsletters produced and disseminated

M4.5	3 <sup>rd</sup> annual dissemination workshop	4	CBSS	M30	3 annual workshops organised.
M4.6	Draft Exploitation and Sustainability plan	4	EU-VRI	M54	Draft plan disseminated to the FIRE-IN partners
M5.1	First Review prepared	5	Pole SAFE	M30	Materials for review submitted, review organised

### 3.2.3. Handling of disputes

As stated, the Consortium Agreement (CA) signed by all partners before the project start will provide the rules in case of internal disputes. Internal conflicts, i.e. disagreement of project partners regarding the project, are handled and shall be solved on the lowest stage possible of the following escalation staircase:

1. Discussions between disagreeing partners.
2. Conflict moderation by the Project Coordinator.
3. Conflict moderation by the GA.
4. Final stage of escalation (before legal action): discussion and agreement on further action by the Project Coordinator with a representative of the European Commission.

### 3.2.4. Critical risks and mitigation actions

Although the project does not include elements which represent both a high risk and a high probability of occurrence at the same time, risk management is considered important for the successful completion of a complex project such as Fire-in. Risk management identifies, quantifies and manages risks that could endanger the project or parts of it. An initial list of the risks that may considerably affect the project progress and quality will be detailed in the Project Management Plan set up as a part of the management WP. Relevant mitigation actions (contingency plans) will also be elaborated. The risk register will be updated on an ad hoc basis (whenever a new risk is identified). Risks will be assessed separately and will be reported on a regular basis in the project reports. The tables below summarises an indicative list of internal & external risks and related contingency plans.

#### Examples of internal risks

Risk description	Mitigation actions	Impact / Probab.
Conflicts within the consortium	Conflicts on decision making – e.g. failure to agree on strategic decisions for the project will be avoided as much as possible through a democratic voting seeking consensus in the GA, according to CA rules.	High / Low
Delays and administrative issues	The coordinator and its support partner on project management inno TSD are well aware of the administrative process and will support all partners on H2020 administrative activities. The CA will define actions to be taken in the case that a partner causes significant delays or administrative issues.	Medium / Low
The consortium experiences disruption (a partner fails or resigns)	Structural risks can mainly be attributed to key personnel (Coordinator, WP or WT leaders) or a partner leaving the consortium. A strong commitment (through the CA) by all partners will be given. The risk is minimised through division of work among several experienced partners and a detailed work plan.	High / Low
Quality of work unsatisfactory	All major project deliverables as well as key project activities and events will be subject to Quality Assurance (QA) (Task 5.2). Deliverables will be checked according to QA guidelines.	High / Low
Different cultures / culture for cooperation	Different mindsets/ attitudes on R&I management, communication and culture may affect cooperation. Although all partners have had experiences in transnational cooperation before, the PCO will secure mutual understanding, transparency and effective communication.	Medium / Very low

**Examples of external risks**

Risk description	Mitigation actions	I/P
Political and economic instability factors	Should a major European or international political or economic crisis erupt during the project, specific measures (rescheduling, virtualisation or re-allocation of deliverables or activities, etc.) will be taken in order to control negative effects on the overall FIRE-IN activities.	High / Low
Low commitment and engagement of relevant stakeholders	FIRE-IN strongly depends on the active involvement of various stakeholder groups, especially in WP1, involving European practitioners. The strong practitioner component in FIRE-IN consortium, all with important national activities and international network, provide for the necessary mitigation. When necessary will be deployed: intensified networking and dissemination efforts, informing stakeholders about the benefits/ advantages of FIRE-IN through target actions, extending cooperation with other projects (WP4).	High / Low
Low attendance in project events and activities	FIRE-IN will map the various networks and projects that could be interested in the project at the beginning and constitute a database of contacts for dissemination purpose. The project will highly engage in communication activities towards the R&I communities in the EU, including liaising with existing networks / projects to reach interest and raise awareness (WP4). Every year dissemination impact will be assessed (i.e. targets achieved) and corrective actions taken if needed.	High / Low
Low participation on the platform	FIRE-IN's success also strongly relies on its online platform. There is a risk with such a virtual platform with a majority of content provided in English that the culture of some practitioners may differ from the use of it. For this, FIRE-IN have reflected on the possibility to gather contributions in various languages, and each partner is committed to engage mitigation actions towards the stakeholders from their own countries/region. Further guidance will be provided on the platform through the helpdesk.	High / Medium
Difficulty in establishing a sustainable network	FIRE-IN will build on the partner's common activities and participation in sustainable networks to design a sustainability plan that will allow exploitation of the project's results and network continuation.	High / Medium

### 3.3. Consortium as a whole

The FIRE-IN consortium, comprised of 16 partners and covering 8 countries, has been built in order to be as representative as possible of the European F&R practitioner community in terms of (a) geographic location, both directly (northern, southern, eastern and western parts of Europe are represented) and indirectly (altogether the networks of the partners enable collaborations all over the world); and (b) specific sub-domains of the Fire and Rescue sector that are tackled through the TWG5.

Indeed, the FIRE-IN consortium represents a unique and diverse group of partners that can cover all types of F&R issues at a truly European level. **The 16 FIRE-IN partners include 13 public bodies and three private organisations from 8 MS** (Czech Republic, France, Italy, Germany, Greece, Poland, Spain and Sweden). Further, another 8 MS and associated countries will be directly involved through CBSS (Denmark, Estonia, Finland, Island, Latvia, Lithuania, Norway and Russia). Also, 45 Associated Experts are already linked to the project (and have signed letters for consultation in Annex 3) and come from Europe and beyond, amongst which 9 European countries not covered by the FIRE-IN partners (Belgium, Croatia, Macedonia, Portugal, Slovakia, Switzerland, the Netherlands, the United Kingdom and Ukraine; as show in the figure below and detailed in Annex 3) and beyond (the USA and Australia). The synergies and complementarities also go beyond EU28 and can ensure that international good practices are integrated into its working practices. In practice, the strength of the FIRE-IN consortium lies in its capacity to address and interact directly with the European networks of practitioners as well as research, industry and standardisation bodies and cover the overall spectrum of the F&R domain.

Since the discipline is highly fragmented and includes different types of actors ranging from public services from different agencies and ministries to private companies, including NGOs, the FIRE-IN consortium mirrors that particularism and includes representatives from the broad spectrum of diversity and can demonstrate its worldwide connections.

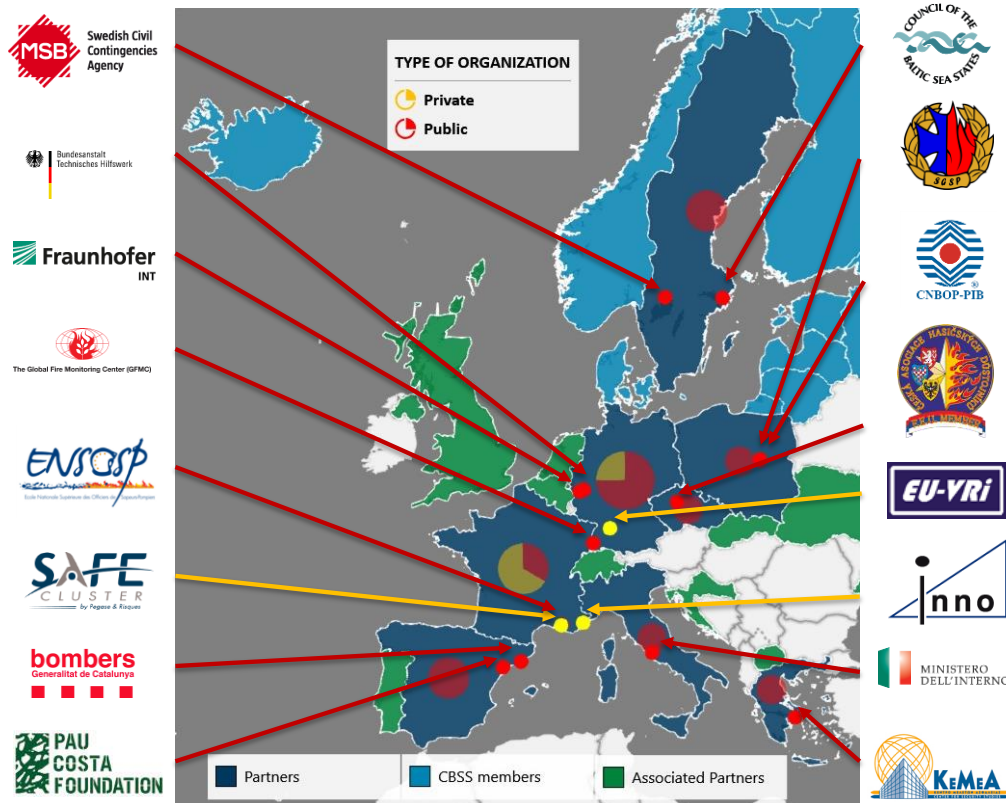


Figure 8- Geographical Distribution of the FIRE-IN Partners and AE in Europe

The involvement of representatives from national practitioners (ENSOSP, CNVVF, THW, SGSP, MSB, KEMEA) offers the capacity to have a global vision of F&R in their countries as well as an entry point to the institutional networks gathering both European and third countries. As shown in the first AE list annexed to the proposal, the consortium has the capacity to effectively mobilise its network in a short time after the beginning of the project and start the interactions with practitioners already at an early stage.

The **Pole SAFE** will act as the coordinator of the project because it is positioned at the crossroad of the Practitioners, the Researchers, the Industry and the standardisation bodies; and works on a daily basis with all of the 4 pillars mentioned (cf 1.3.2 ) at national and EU level. As an illustration, SAFE is involved in capability challenges identification and RDI developments for the French F&R institutional representative, mandated and supported by the National Directorate for Civil Protection (Ministry of Interior Directorate – France), and acts as National Contact Point for H2020 Secure Societies.

In addition, it should be noted that:

- All the partners are working on F&R RDI European, international, or national projects, and thus conduct their own research activities (GFMC, EU-VRI, FhG-INT, PCF, CNBOP, SGSP, KEMEA, INNO).
- Most of the partners (ENSOSP, CNVVF, THW, GFMC, PCF, CFS, SGSP, KEMEA) are involved in training activities, with the vision of knowledge and skills management and problematic.
- A lot of partners are connected with F&R networks and other security related disciplines (Police, Border Guards, Explosive specialists...) practitioners' networks (SAFE, ENSOSP, CNVVF, THW, CNBOP, CBSS, KEMEA).
- A lot of partners (SAFE, CNVVF, THW, CFS, MSB, KEMA, CAFO) are involved in operational activities, at local, national and international levels, and therefore can let FIRE-IN benefit from that knowledge and share their lessons learnt with the rest of the consortium.
- A number of partners the partners are strongly connected with standardisation bodies through common projects and long lasting activities (SAFE, CNVVF, EU-VRI, CNBOP, KEMEA).

- EU-VRI has the capability to involve risk owners' representatives and, through its activities within ETPIS (European Platform on Industrial Safety <http://www.industrialsafety-tp.org>), to evaluate the emerging technological hazards.
- The engagement of European businesses and RTOs can be secured via industrial networks, such as the ECCP (the European cluster hub) managed by inno.

More connections to existing networks and initiatives are presented in Annex 2. By collaborating with other leading organisations from the F&R community the FIRE-IN consortium partners expect that key issues, challenges, opportunities, capabilities, and resources will be identified and that project impacts can be delivered to the highest possible standards. We are convinced that our complementary competences and mixed experiences will serve best the needs of the F&R practitioner community.

The main role of each partner in FIRE-IN is described in more details in the Section 4 of the proposal.

### 3.4. Resources to be committed

#### 3.4.1. Calculation of the 25% dedicated to interactions with academia and industries

**Encouraging and facilitating stakeholder interactions lies at the heart of the FIRE-IN concept.** The plan for interacting with industry and academia is presented in the methodology of WP1 – Task 1.3 (Future CCCs), WP2, WP3 as well as WP4 (Task 4.2 and 4.3) and WP5 (Task 5.2 – IAB). A summary of these activities will be prepared every 6 months (WP5 reporting) to be in line with the call requirements. As the table shows below the current budget allocation ensures the target of 25% is exceeded.

	Personnal direct costs	Other direct costs	Total
<b>WP1 - Task 1.3</b>	<b>40 pm</b> (198 258 €)	125 100€	
<b>WP2</b>	<b>49 pm</b> (315 566 €)	/	
<b>WP3</b>	<b>44 pm</b> (248 328 €)	/	
<b>WP4 -Task 4.2 (50%)</b>	<b>19 pm</b> (112322,50€)	/	
<b>WP4 – Task 4.3 (50%)</b>	<b>11.5 pm</b> (79179,50 €)	/	
<b>WP5 – Task 5.2 (30%)</b>	<b>5.4 pm</b> (34297,20 €)	30 240 €	
<b>Total</b>	<b>169 pm</b> (987951,2€)	155340 €	<b>1143291,20 €</b>
<b>Total (% out of budget)</b>	<b>28 %</b>		<b>33 %</b>

#### 3.4.2. Summary of staff effort (person-months)

		Summary of staff effort					
		WP1	WP2	WP3	WP4	WP5	Total Person/Month per participant
P1	POLE SAFE	11	9,8	8,5	9,5	12,5	51,25
P2	ENSOSP	9,75	0,0	0,0	13,5	1,5	24,75
P3	CNVVF	20,25	3,0	0,0	4,5	1,0	28,75
P4	THW	10,5	0,0	0,0	3,5	1,0	15
P5	GPMC	11,25	0,8	0,0	2,0	1,0	15
P6	EU-VRI	0	5,5	4,5	7,0	1,5	18,5
P7	FhG-INT	9	10,5	7,0	0,5	1,5	28,5
P8	PCF	3	0,0	0,0	9,0	1,0	13
P9	CFS	20	1,5	3,0	2,0	1,5	28
P10	CNBOP	0	3,3	9,0	3,0	1,0	16,25
P11	SGSP	3	3,3	0,0	3,0	1,0	10,25
P12	CBSS	3	3,0	0,0	11,0	1,0	18
P13	MSB	10	0,0	0,0	3,0	1,0	14
P14	KEMEA	12	6,0	12,0	3,0	1,5	34,5
P15	CAFO	14,25	0,0	0,0	2,0	1,0	17,25
P16	INNO	0	2,5	0,0	4,0	7,0	13,5
Total Person/Months		137	49	44	80,5	36	346,5

### 3.4.3. Other direct cost

The following table shows 'other direct costs' for participants where those costs exceed 15% of the personnel costs. **Details for all other costs are given in Annex 4 (section 6.4).**

POLE SAFE		Cost	Justification
	<b>Travel</b>	384 855	Organisation of events in WP1, WP4 (dissemination events), WP5 (IAB) Travel costs for the Consortium Meetings and review meetings (WP5) and events (WP1, WP4)
	<b>Other goods and services</b>	4 000	Financial Audit
	<b>Total</b>	388 855	

CNVVF		Cost	Justification
	<b>Travel</b>	21 815	Travel costs for the Consortium Meetings and events (TWG workshops, external events...)
	<b>Other goods and services</b>	0	
	<b>Total</b>	21 815	

THW		Cost	Justification
	<b>Travel</b>	11 555	Travel costs for the Consortium Meetings and events (TWG workshops, external events...)
	<b>Other goods and services</b>	10 000	Web platform hosting costs
	<b>Total</b>	21 555	

PCF		Cost	Justification
	<b>Travel</b>	11 555	Travel costs for the Consortium Meetings and events (workshops, external events...)
	<b>Other goods and services</b>	0	
	<b>Total</b>	11 555	

CFS		Cost	Justification
	<b>Travel</b>	22 775	Travel costs for the Consortium Meetings, review meetings, and events (TWG workshops, external events...)
	<b>Other goods and services</b>	0	
	<b>Total</b>	22 775	

CNBOP		Cost	Justification
	<b>Travel</b>	8 135	Travel costs for the Consortium Meetings and events (TWG workshops, external events...)
	<b>Other goods and services</b>	0	
	<b>Total</b>	8 135	

SGSP		Cost	Justification
	<b>Travel</b>	11 555	Travel costs for the Consortium Meetings and events (TWG workshops, external events...)
	<b>Other goods and services</b>	0	
	<b>Total</b>	11 555	

MSB		Cost	Justification
	<b>Travel</b>	18 395	Travel costs for the Consortium Meetings and events (TWG workshops, external events...)
	<b>Other goods and services</b>	0	
	<b>Total</b>	18 395	

CAFO		Cost	Justification
	<b>Travel</b>	14 975	Travel costs for the Consortium Meetings and events (TWG workshops, external events...)
	<b>Other goods and services</b>	0	
	<b>Total</b>	14 975	

## 4. Members of the Consortium

The partners within the consortium are described below, including their main experience in fields relevant to the FIRE-IN project activity and their relevant networks for FIRE-IN.

### 4.1. Participants (applicants)

1	SAFE	Type	Website	France
<b>Organisation Description</b>				
<div>  <p><b>SAFE Cluster</b> (Security and Aerospace actors for the Future of Earth) is a French “competitiveness cluster”, operating as a non-profit association. It was created in 2015 from the merger of two pre-existing French clusters; the first, dedicated to aerospace industry and the other to risk management. Its ambition is to become a reference network for innovative security and safety solutions in Europe.</p> <p>As of today, SAFE Cluster network gathers around 600 members including companies (SMEs, medium companies and large groups), research and academia partners, mainly from the areas of security and civil protection. SAFE Cluster works closely with the practitioners, with a formal partnership with the Ministry of Interior – Civil Protection Directorate on research and technology development and research monitoring, but also with regional and local authorities as well as fire and rescue services, including the French Fire-Fighting Federation, municipalities and counties, and infrastructure owners (Seveso plants, transportation services), that are all Cluster members. SMEs represent 60% of this network. That specificity makes SAFE Cluster the network which gets together suppliers and customers of integrated security solutions and therefore, the cluster where new business models are invented.</p> <p>SAFE Cluster addresses security issues with a trans-sectoral approach, as well as an understanding and vision of innovation driven by an end-user perspective.</p> <p>The expertise of SAFE lies in its market knowledge, the dense network of partners and the dedicated tools and methodologies that have been developed. To support the development of its members, SAFE Cluster offers dedicated support, tailored to the need of each member, made of a wide panel of actions ranging from the emergence of research and innovation projects, to the search of technological partners and financing, including also coaching, support to business plan and international development.</p> <p>SAFE Cluster is located in the South East of France (PACA Region), where high standard aerospace and security industries are located, as well as a strong part of the French Civil Protection schools &amp; academies, national resources and command centres. The Smart Specialization Strategy of PACA Region is very much related to the focus of FIRE-IN, Risks-Safety-Security is a priority domain of the Regional S3.</p> <p><b>International partnerships and connections:</b></p> <p>SAFE is member of the European Alliance of Security clusters (10 clusters), with a connexion to their members, including 2000 industry and research key players in security RDI.</p> <p>SAFE is already in partnership with the Bushfire and Natural Hazard Collaborative Research Centre (Australia / NZ), and work in close cooperation with the Center of Excellence for Advanced Technology Aerial Firefighting (CO, USA).</p> </div>				

SAFE is member of the international wildfire working group and international aerial fire-fighting working group.

International RDI conferences, events and dissemination activities: SAFE organize and manage around 30 events / year in the area of security research and innovation. Several are international. SAFE is co-organizer of the aerial firefighting conferences (2013 Aix-en-Provence, 2017 Nîmes France) and S.A.R. conference (2017-Nîmes-France).

### Profile(s) of expert(s) involved

**Jean-Michel DUMAZ** (male), Master's degree in Risk Management, Master's degrees Physical and Chemical Sciences. Defence and Security Programs director at SAFE CLUSTER since 2013, in charge of research, development and innovation (RDI) support actions for a portfolio of 200 SMEs, academia and practitioner members. He manages the work programs conduct by SAFE for the French Ministry of Interior and the French Ministry of Defence. National Contact Point for H2020 Secure Societies, member of the National Security Research Working Group, expert or advisory board member of several FP7 and H2020 civil protection projects (CATO, AF3, TARGET, PHAROS, PREFER, GEO SAFE), Jean-Michel DUMAZ is strongly involved in the security research and development programs, in particular those related to civil protection and crisis management. Previously fire-fighter officer at Fire Department of Bouches-du-Rhône FRANCE for 10 years, he was in charge of innovation and international partnerships, and involved as incident commander for large emergencies, he has extensive operational expertise.

**Stéphane POYAU** (male), License degree in Risk Management. Fire-fighter officer for 20 years in several French fire departments, EU Civil Protection Mechanism training courses (CMI, OPM, AMC), CBRN and Forest Fires international expert in charge of exchanges of experts with the UK, expert and evaluator for several EU large scale exercises (MODTTX-Croatia 2015, NEAMWAVE2014-Belgium EU-UNESCO, TARANIS-Austria 2013, CREMEX-Estonia 2011...). SAFE CLUSTER expert for civil protection RDI project for 3 years.

**Christophe FRERSON** (male), Master's degree in "Risk and Crisis Management ». French Firefighter Officer for 25 years. He worked in several Fire Departments in various positions, such as, battalion chief, Head of fire station, Incident Commander, Air Attack Supervisor. Since 2012, C. FRERSON works as programs manager at the Southern Inter-Ministry Headquarter for crisis management. He is responsible for National Security Planning. In this position, he covers all kind of risks in 16 counties with 22,000 firefighters and a population of about 9 million citizens. Christophe Frerson is expert for SAFE CLUSTER since 2013, and involved in several national and EU projects, for defining and collecting practitioners' needs, organising experiments and validation, and participating in advisory boards.

**Alice Clémenceau** (female) has been working as European Project Manager at SAFE Cluster for two years. She is in charge of the coordination of the European projects in which SAFE is a partner and used to manage large EU projects notably regarding the legal and administrative aspects. She is involved in particular on the DRIVER (FP7 SECURITY project), in which she coordinates a sub project. She uses to work at the French National Centre for Scientific research where she managed European Infrastructure projects (from the ESFRI Roadmap). She holds a Master's degree in Innovation and Science Management from Sciences Po.

### List of relevant publications, and/or products, services

- "Personal Protective Equipment – issues and potential applications of ICT and new textiles", white paper, SAFE coordination, contributions by Ministry of Interior and National representatives (ENSOSP, ENTENTE)
- "New ways to use aerial means for civil protection" (2015), White Paper, SAFE coordination, contributions by DGSCGC, ENSOSP, Entente Valabre.
- "Information Systems for fire and rescue services" (2016), National Standard, SAFE coordination,

contributions by fires services under the supervision of the French Ministry of Interior

### Relevant projects/ activities

- HELI4RESCUE (2012-2014): the project is a Support Action funded by the 7th Framework Program (FP7). It addressed the transport of heavy loads within disaster areas to provide help and security to people affected by disasters and in need for rescue and relief actions. It aimed to evaluate the practitioners' needs and expectations for a new generation of aerial vectors and to make technical guidelines for future research and development works. Involving a large panel of experts, pilots, aircrafts operators, air crane operation managers, from civil and private bodies, the project has produced a strong methodology that has supported the experts' collaborative works. These results will be used in the FIRE-IN project, in particular for mission and typical scenarios identification, collaboration management with experts from several agencies and bodies, capability gaps identification and definition.
- Integrated Application Platform of the European Space Agency (2010-2012): SAFE was a platform ambassador for France. The purpose was to identify needs from the users (civil protection, local authorities, industrials) in terms of spatial applications (earth observation, geo-tracking, telecommunications). It consisted in bilateral structured interviews and focus group discussions for each end-users' category. Based on the identified needs, projects were built and supported for funding.
- DRIVER (2014-today): FP7 demo project, DRIVER aims to develop a portfolio of tools for crisis management solutions and organize European test-beds for solutions testing and experiment. SAFE Cluster is in charge of managing the experiments and final demonstration and coordinating the dissemination and networking activities. These responsibilities include the dialogue with the European Crisis Management communities, with active participation to the Community of Users initiated by the European Commission, the organisation of regional events with practitioners as I4CM (May 2015, Marseille, 140 attendees).
- SGO (2015-2016): national working group on future ICT tools for command and control centres, this project was conduct by SAFE for the French Ministry of Interior, involving 21 fire-departments for collaborative works on the specification of the future systems and recommendations for technologies development.
- Forest Fire PPEs (2014): national project conduct by SAFE for the Ministry of Interior, it aimed to experiment new generation of textiles for fire-fighter protection during forest fire fighting operations, and to propose recommendations for national standardisation of future generation of jackets and pants.
- SAFE conducted several projects as FOREST FIRE PPEs since 2011, on the following topics: extinguishing agents, robotics, aerial resources, and population information.

### Significant infrastructure and major items of technical equipment relevant to the proposed work

SAFE has formal partnerships with the French Civil Protection authorities and several French fire and rescue services. The Cluster will organize and host several FIRE-IN events, including thematic working group meetings, in the French practitioners' facilities, in order to stimulate the debates.

### Contribution to the project

SAFE CLUSTER acts as the project coordinator. It will make available to the project its experience in generating, steering and feeding the dialogue between practitioners, researchers and solutions suppliers. Indeed, as a French Competitiveness Cluster, SAFE missions include the management of the cooperation

between the three pillars of the “triple-helix”: practitioners, academia and suppliers, and a collaboration with standardisation bodies (AFNOR for France and ISO). SAFE will also make use of its expertise in project management. The Cluster will capitalize on lessons learnt from past similar projects regarding capability gaps identification and characterization such as HELI4RESCUE or AMBASSADOR PLATFORM, and collaboration on works supporting the interaction with USA-DHS and European Commission concerning the First Responder Group initiative.

SAFE will mobilize its wide and international network of practitioners in the project in close partnership and cooperation with the French Ministry of Interior – Directorate General for Civil Protection. In addition, the Cluster will draw on its networking capacity and tap into its contacts from the various working groups it participates in, like the national security research working group (French Research Agency – ANR), the innovation working group of the national security industry committee (COFIS), and the European Alliance of Security Clusters (10 European Clusters in Security field).

SAFE CLUSTER is also WP3 leader. It will therefore (a) ensure the coordination of the various tasks of this work package which is dedicated to recommendations for research, development and innovation, and (b), align the results of this work package with the work carried out in the other parts of FIRE-IN. SAFE will use its international connexions with Research and Technologies Organizations (RTOs) and standardisation bodies to support the WP3 interaction works.

2	ENSOSP	Type	Website	France
<b>Organisation Description</b>				
 <p>The <b>ENSOSP</b> is the French Academy for Fire, Rescue and Civil Protection Officers that trains its 25 000 officers composing of volunteers and professional fire-fighters, along with its medical teams (nurses, physicians, pharmacists, and veterinarians). The Academy is in charge of initial (56%), lifelong (22%), and specialized trainings (12%). Other audiences include local authority representatives, government officers, business executives, French and international experts, and international fire-fighters. The Academy aims to meet the employers' requirements of qualified fire-fighters and those of Directorate of Civil Security of norms respect.</p> <p>Thanks to its own initiatives and partnerships with various entities, the ENSOSP forms technical advisors for fire and rescue services and proposes several Master Degrees in the areas of risk management, civil security law, and risk assessment in technological, biological, radiological, and chemical fields. Striving to achieve both expertise and excellence, the Academy proposes Firefighting training and first aid training using innovative simulation practical areas as urban, building and traffic road areas or medical emergency drills areas (SIMURGe); CRISE and risk management; Human resources management; CBNR and environmental prevention and preparedness; Operational management; Training for medical executives; Senior officers training.</p> <p>The ENSOSP aims to be the leader in multiple networks, in order to be at the heart of breakthrough knowledge's integrations, exchanges, and identifications. As i.e., the Academy is an active member of the network of various national schools of public utilities, the network of Fire and Rescue Services, the European Fire Service Colleges' Association, the network of Fire and Rescue Services' Schools.</p> <p>The Academy's international cooperation concentrates on the 4 following fields: firefighters' trainings, civil protection, humanitarian assistance, and research and development projects.</p> <p>The school has, within it, a Centre for interdisciplinary studies and researches on civil protection (CERISC) which aims to conduct prospective on the fields of law, organizational management,</p>				

operational and technical specialties. In addition to its team of researchers, PhD students and project managers (6 persons), ENSOSP also relies on its network of experts and referents and use an internet knowledge sharing tool called PNRS.

ENSOSP gathers all thematic training and skills management expertise, in particular :

- SAR and EMR with the National SAR and EMR excellence centre based at ENSOSP
- FIRE : national academy for fire fighting and prevention
- CBRNE : national academy for CBRNE including testing and experiment platform
- Capability to work at interagency level as ENSOSP manage national working groups on FIRE and RESCUE with the other ministries (health, Ecology, transportation), Civil Protection NGOs, Policy Makers
- Fire and Rescue communities management through web platforms
- New solutions testing and experiments at ENSOSP training school
- New SOPs design and production capacity

### Profile(s) of expert(s) involved

**Mrs Audrey MOREL SENATORE** (female) is the Director of the CERISC in ENSOSP (staffing of 8 personnel) since its creation in September of 2013.

She is Ph.D. In public law and she works in ENSOSP since October of 2008. She organizes and develops the research, the prospective and the innovation of the School. She manage the definition of the strategic politics of research, works and partnerships of search coordination (academics like Aix-Marseille University and industry). With her team, she livens up the scientific conceptualization of operational practices from the monitoring practices communities in the French fire and rescue counties. The animation of the territorial networks and the internal and external communication on the research and good practice feeds the National Portal of the Resources and the Knowledges (<http://pnrs.ensosp.fr/>) or the School Journal "Perspectives". She impulses projects of the Center in their administrative and legal or scientific implementation. She is also an expert with the Council of Europe concerning the questions relative to the legal framework of the human rights specially in saving of the populations. She is a graduate of the national Institute of the French National Institute for Advanced Studies in Security and Justice (INHESJ) in 2011. She was a professor (teaching and research) in public law for the Jean Monnet University (Saint-Etienne, France) before working for the French Civil Safety.

**Mr Marc LOPEZ** (male) is a project manager in research and innovation at ENSOSP at the CERISC, under legal status of attached of State Administration (administrative management corpus). He's a geographer graduate and has obtained a master in "risk and crisis management of civil safety". He usually manages about three or four projects at the same time under administrative, financial and calendar respect angles. For each project, he designates scientific or technical directors according treaty theme. He has also to communicate and increase the value of the project. He works at ENSOSP for eight years and began his career with firemen eighteen years ago. He developed numeric cartography and training sessions in GIS and GPS from 1999 to 2008.

His thematic specialties are ICT under numeric mapping, GIS, GPS crossing with risk and crisis management. But his experience for over fifteen years allowed him to also understand the specialized risks such as CBRNE or emerging risks as hydrogen. As part of the many calls and consortia partnership mounting, he was able to develop and animate many user (firemen), scientific or industrial networks in the field of global security.

### List of relevant publications, and/or products, services

ENSOSP annually published five issues of a magazine called "Perspectives - scientific books of ENSOSP". Each review is organized around twenty thematic articles containing the fields of the research centre studies: law, management and control of organizations, operational specialties or health. Again, those are operational officials, service managers or experts who write in a scientific target these different items.

### Relevant projects/ activities

- STARRS (2006-2008): PF6 project, STARRS aims at providing rescue organizations with a solution that will help and facilitate their operation in situations arising due to natural (or man-originated) disasters (floods, earthquakes, fires) or industrial accidents, etc. Similar situations arise, for some years now, from terrorist attacks that can generate equivalent mayhem. ENSOSP had identify the needs and carried the tests (total budget: 2.9M€).
- SRIP (2007-2009): The project, financed by the French national agency of the research (ANR), aims at studying the automated systems and their employment allowing to assure missions in cooperation with the first responders in hostile environments. ENSOSP contribute to defining the concepts of employment for the systems automated by intervention in danger zone for missions of collection of information with predictive purpose or for post--accidental processings (industrialists, transport of hazardous materials). These concepts are intended for the agents of intervention and first of all fire brigades. Tests were conducted on the technical platform of ENSOSP (ANR budget: 1M€).
- SAGECE (2008-2010): The SAGECE ANR project (Simulation for the Improvement of the CRISIS MANAGEMENT) allowed to define, and to estimate a capacity of training by simulation and the virtual reality, for exercises of training Crisis management NRBCe (nuclear, radiological, biological, chemical and Explosive) of hostile origin inside public buildings. ENSOSP had identify and define the needs, was end user of the solution ANR budget: 1.3M€).
- HYRESPONSE (2013-2016): FP7 demo project - Coordination and Support Action (CSA) supported by EC Fuel Cell and Hydrogen Joint Undertaking. Hydrogen Emergency Response training program for First Responders aims to build a European hydrogen training platform with mock-up real scale transport and hydrogen stationary installations on which will be realized full scale operational exercises. ENSOSP, is the project coordinator. ENSOSP was involved in the hazards evaluation tasks as well as new SOPs and solutions design for hydrogen fire extinguishing. The platform is made on the ENSOSP site and to develop, test, and get a feedback on the educational, practical and virtual training, three pilot sessions was organized for European First Responders in a face to face mode, each of one week duration. The final European workshop will be organised in autumn of 2016 (FCU JU contribution budget: 1.85M€).

### Significant infrastructure and major items of technical equipment relevant to the proposed work

ENSOSP has developed a technical tool, based on internet technology, whose purpose is to network all the officers of French firefighters. It is the national portal of resources and knowledge (PNRS), organized in twelve thematic platforms and offering for each tools such as publications of articles, a calendar of events, forums or FAQs, a directory and structured spaces for studies or documents.

The technical part of the tool has been developed by a service provider, on the recommendations of CERISC. The current is maintained today by internal teams of the school but especially the CERISC has in charge its animation through its established networks. It's a real expertise for 7 years which was developed around the tool, these applications and benchmarking the network.

**Contribution to the project**

ENSOSP will manage WP4 “Continuous dialogue and dissemination” and especially to the design and implementation of the platform for practitioners, industries and research: e-FIRE-IN. ENSOSP will contribute to tasks 1.1 in particular to the TWG related to SAR and EMR as well as CBRNE crisis mitigation, and 1.2 on organising the collaboration with practitioners.

3	IMI	Type	Website	Italy
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**Organisation Description**

**The Ministry of Interior (IMI)- Department of Fire Corps, Public Rescue and Civil Defence** (Ministero dell’Interno - Dipartimento dei Vigili del Fuoco, del Soccorso Pubblico e della Difesa Civile) deals with the organisation and the provision of services concerning prevention, rescue and relief activities in case of natural calamities or technological disasters. It also covers all relevant administrative and management aspects.

The Department is particularly active in two homogeneous and interconnected sectors: The Italian National Fire Corps and Civil Protection - in close cooperation with the National Civil Protection Department within the Prime Minister's Office. The Italian National Fire Corps is in charge of the protection of human life and the safeguard of property, environment from damages or potential damages caused by fire, explosion and other accidents, as well as from major industrial risks, including nuclear ones. In particular, the Italian National Fire Corps carries out the following tasks: (i) fire prevention and extinction and - in general - all emergency technical operations for the protection of human life and property; (ii) fire rescue in main national civil airports and harbours; (iii) training and deployment of units for the safeguard of civil population in case of natural disasters or war. Among these areas, the Italian National Fire Corps performs activities mainly belonging to the first point.

To give some figures, during the year 2013 some 33.000 professionals of the Italian National Fire Corps in force in 545 HQs and Fire Stations carried out 702.112 interventions, while its prevention activity was focussed on the examination of 121.738 technical projects and the surveillance of 55.202 sites. The Italian National Fire Corps has his own fleet of 40 helicopters, 2 aeroplanes distributed over 12 bases and manages, for the needs of the forest fires activity, a fleet of 18 Canadairs.

**Profile(s) of expert(s) involved**

**Stefano Marsella** (male) is the Director of the National Fire Academy (Istituto Superiore Antincendi) of the CNVVF (Corpo Nazionale dei Vigili del Fuoco National Fire Corps) since September 2014. Formerly he has been the Chief of the Fire Services of the Perugia Province from July 2011. He is in duty in the National Fire Corps since 1988.

He has been working in the fire and rescue services (1988-1991) in Venice, then in the fire protection rules and studies for 10 years at National and EU level. Appointed as Chief of the Provincial HQ of Arezzo in 2003, he moved to the National IT Office of the CNVVF in 2005, where he has been working on the improvement of the use of ICT to rescue services and emergency management as well as the administrative needs of the CNVVF.

One of his side activities has dealt with the problems of people with disabilities. He has been the Chairman of a permanent working group created in the Fire Corps dedicated to the fire safety

problems of people with disabilities in 2001. He has been the vice chairman of the Cost Action C17 (fire loss to cultural heritage building) from 2001 until 2005. In the same period, he has been a member also of the NFPA 909 and 914 Committees on cultural buildings fire protection. He has been responsible for the CNVVF in the following FP7 projects: REACT, SAVE ME, REFIRE, IDIRA, AF3 and is a member of the NFPA Committee “Common Mass Evacuation”. He has published 3 books and several papers concerning the use of engineering methods in fire protection and emergency management.

**Davide Pozzi** (male) is an officer engineer in duty in the Italian National Fire Corps (CNVVF) since 2002, within the Ministry of the Interior. He worked at the operating unit provincial firefighters in the province of Varese (Lombardia). He headed the operating unit helicopters, located in airport Malpensa (2004-2006), taking part in several rescue operations and many exercises coordinated airport emergency. He works at Central Directorate for Logistic and Instrumental Resources - IT Coordination Services (since 2006), and he is involved in projects related to the technological innovation and implementation of management information systems and for operational activities of the National Fire Corps.

He was involved in the CNVVF staff to develop new functionalities in technological systems of video surveillance in mobility, during the rescue operations (PON - national operational projects for regional development 2007-2013).

He took part as a CNVVF member in the European project REFIRE “REference implementation of interoperable indoor location & communication systems for First REsponders” (EC, 7th FP), and worked on the development of the Italian profile Common Alerting Protocol (CAP) and on the implementation of the software CAP-ITEM in control rooms of the Italian National Fire Corps (CAP Interoperable Tools Emergency Management - System for exchanging public warnings and emergencies among emergency response services).

He took part in rescue missions in Italy, Abruzzo (2009) and in Emilia Romagna (2012), in the earthquake affected areas, for the assessment of building damages and for the realization of temporary works on damaged buildings, to restore the practicability of the roads and the preservation of historic buildings. Currently he is working in the Central Directorate for Logistic and Instrumental Resources - IT Coordination Services.

**Claudio Garibaldi** (male) works as a Fire Captain of the Italian National Fire Corps since 1975, member of the CBN Unit of the Provincial HQ of Rome since 1985, operational manager of the regional CBRN unit in Rome since 1996, then member of the National Committee on CBRN of the National Fire Corps. He has earned CBRN 3rd level qualification since 2003. He is acting as National CBRN expert of the National Fire Corps since 2003. He was a member of the workgroup of the project SlimPORT / SlimCHECK.

He had direct experience as team leader in CBRN and security preparedness for all major events 2001-2010 in Italy, including international (G8, NATO, FAO, EU council, conferences for Lebanon, etc.) and national popular events (visits of Popes, death and assignment of Popes, election days). He had direct experience in the following major events abroad: Fire in the chemical plant of Ras Lanuf (Libya, 2002), 2002 EUROTOX exercise (France), Dacia NATO exercise (Romania 2003), the International exercise ASSISTEX-3 within the OPCW2010 Tunisia (Tunis). His experience in major disasters spans between the 1983 Irpinia earthquake (Italy) and the 1998 Mudflow of Sarno, near Naples; it includes the 1994 Anatolia earthquake (Erzincan, Turkey) and the 1997-1998 Umbria-Marche earthquake (Italy).

#### List of relevant publications, and/or products, services

- “CBRN mobile laboratories in Italy” SPIE international society for optics and photonics” - Orlando, Florida, USA;
- "Use of mobile laboratories for fighting bio-terrorism and other CBRN events ", Germany;

- “Development and evaluation of a manual SPME sampler specifically designed for environmental analysis in first responder operations”, XXIII National congress SCI - Italy.
- “Interoperability as a daily challenge: enhancing operational data exchange between rescue organisations” 9th Future Security Research conference, Berlin, Germany, 2014; software CAP-ITEM (CAP Interoperable Tools for Emergency Management) adopted (and owned) by all the 120 Provincial, Regional and National CNVVF Control Centres.

### Relevant projects/ activities

- SAVE-ME (System and Actions for VEHICLES and transportation hubs to support Disaster Mitigation and Evacuation, EC-SST 2008).  
SAVE ME aimed at developing a system that detects natural (i.e. earthquake, fire, etc.) and man-made (i.e. terrorist attacks) disaster events in public transport terminals / vehicles and critical infrastructures (i.e. tunnels, and bridges) and that supports quick and optimal mass evacuation guidance, to save the lives of the general public and the rescuers, giving particular emphasis to the most vulnerable travellers (i.e. children, elderly and disabled).
- IDIRA (Interoperability in large-scale multinational disaster, EC-SEC 2010)  
IDIRA tackled the needs of multinational disaster response aiming at developing a system of technologies and guidelines which help in optimal resource planning and operations across national and organisational borders. The set of tools, interfaces and procedures developed in IDIRA were designed to be configured, deployed and operated in a flexible manner, providing interoperable services for data integration, information exchange, resource planning and decision support to local and international disaster response units and decision makers. This core result of IDIRA will take the form an architectural frame
- HELI4Rescue (Heavy Payload Helicopter for Last Mile Rescue, EC-SEC-2011).  
It addressed the transport of heavy loads within disaster areas to provide help and security to people affected by disasters and in need for rescue and relief actions. It aimed to evaluate the practitioners’ needs and expectations for a new generation of aerial vectors and to make technical guidelines for future research and development works. Involving a large panel of experts, pilots, aircrafts operators, air crane operation managers, from civil and private bodies, the project has produced a strong methodology that has supported the experts’ collaborative works. These results will be used in the FIRE-IN project, in particular for mission and typical scenarios identification, collaboration management with experts from several agencies and bodies, capability gaps identification and definition.
- AF3 (Advanced Forest Fire Fighting, EC-SEC-2013).  
AF3 project focuses on the following areas: i) Innovative active countermeasure: implementation of the novel AAFF (Advanced Aerial Fire Fighting) system to accurately and safely disperse extinguishing materials from high altitude by aircrafts and helicopters in any condition: day and night, regardless of weather, smoke and configuration of terrain. It will enable a quick 24H response, minimizing fire duration and damages. The AAFF system can be adapted to a wide variety of aircrafts or helicopters. ii) Innovative passive countermeasures: fast build-up of preventive defensive lines of capsules to prevent the spreading of fire from forest to populated areas iii) Early detection and monitoring: integration and deployment of diverse systems including satellites, aeroplanes, UAVs, and both mobile and stationary ground systems for the early detection of fire and for monitoring the propagation of smoke and toxic clouds. iv) Integrated crisis management: the innovative AF3 Core Expert Engine will perform overall coordination of all fire fighting missions.
- STORM (Safeguarding Cultural Heritage through Technical and Organisational Resources Management, H2020-DRS-2015 - DRS-11-2015).  
STORM proposes a set of novel predictive models and improved non-invasive and non-destructive

methods of survey and diagnosis, for effective prediction of environmental changes and for revealing threats and conditions that could damage cultural heritage sites. Moreover, STORM aim at determining how different vulnerable materials, structures and buildings are affected by different extreme weather events together with risks associated to climatic conditions or natural hazards, offering improved, effective adaptation and mitigation strategies, systems and technologies. An integrated system featuring novel sensors (intra fluorescent and wireless acoustic sensors), legacy systems, state of the art platforms (including LiDAR and UAVs), as well as crowdsourcing techniques will be implemented, offering applications and services over an open cloud infrastructure.

#### Significant infrastructure and major items of technical equipment relevant to the proposed work

CNVVF can put at project disposal any of its 545 HQs and Fire Stations and other structures, as far as it is properly justified by the project activities and the institutional interest in them – which in this case is quite clear. Between several other central structures, CNVVF runs in Rome three National training facilities which are not burdened by the operational duties and are more easily used for the project needs: the “Istituto Superiore Antincendio” (Fire Academy), the “Scuola di Formazione Operativa” (Operational Training Centre) and the “Scuole Centrali Antincendio” (Central Fire College).

#### Contribution to the project

CNVVF is the Authority over almost all the Italian territory having jurisdiction on almost all the themes listed into the proposal (namely, Search and Rescue (SAR), Structure fires crisis mitigation, prevention and protection, Vegetation fires crisis mitigation, Natural Disasters crisis mitigation - limiting to the response and, partially, to the recovery phase - and CBRNE crisis mitigation) with the exclusion of Emergency Medical Response and several phases of the Natural Disasters crisis mitigation. The main task of CNVVF in the project is to **lead the Thematic Working Group B, ‘Structure fires crisis mitigation, prevention and protection’**, but of course will provide its expertise to all the other ones.

4	THW	Type	Website	Germany
<b>Organisation Description</b>				
<div style="display: flex; align-items: center;"> <div style="flex: 1;">  <p><b>Technisches Hilfswerk</b></p> </div> <div style="flex: 2;"> <p><b>The Federal Agency for Technical Relief (THW)</b> performs the following tasks:</p> <ul style="list-style-type: none"> <li>• Providing technical assistance within the framework of civil protection.</li> <li>• Providing humanitarian assistance abroad on behalf of the Federal Government.</li> <li>• Providing technical assistance within the framework of disaster control, public emergencies, and large-scale accidents at the request of the authorities in charge of hazard control, in particular in the field of recovery and repair.</li> </ul> <p>It is one of the most modern relief organizations worldwide and participates in the global intermeshing of all relief organizations as an internationally active operational organization. Since its establishment in 1950, THW has grown into an essential part of Germany's defence against all sorts of dangers. Today, due to its reputation as a reliable and competent partner, THW has been assigned a sustaining role in civil protection by the United Nations as well as by the European Union.</p> <p>As operational division within the area of accountability of the Ministry of Interior, THW fulfils its role both domestically and worldwide. As such, the Federal Agency for Technical Relief can look</p> </div> </div>				

back on its participation in thousands of missions: these include the rehabilitation assistance in Afghanistan on behalf of the German government, medium-term reconstruction efforts after the 2004 Indian Ocean seaquake, general support of the United Nations as well as search and rescue missions after different earthquakes and tsunamis.

Ninety-nine percent of THW's 80.000 members are volunteers. When it comes to establishing the credentials for a modern operational organization, the qualification of its experts is of primary importance. THW therefore participates actively in a domestic and international information exchange network of requesters and cooperation partners. THW also takes on the challenge of keeping up with the vast and constant technological advancements. It aims at assembling its units to meet current civil protection needs based on state of the art knowledge.

Due to its extensive experience, THW fulfils high quality standards, matching those of the UN's International Search and Rescue Advisory Group (INSARAG). THW has already had ample opportunities to prove its tactical merit and conceptual conclusiveness, for example during severe earthquakes in Iran, Turkey and India.

The Federal Agency for Technical Relief has adhered to this process in the past years, since the conceivable disaster scenarios have changed. Severe natural calamities no longer occur once a millennium, the threats posed by international terrorism have increased as well as managing the aftermath of civil wars. All of the previously mentioned scenarios require a substantial joint effort by all states actively involved in global civil protection endeavours.

Since 2014, THW has been actively taking part in national as well as EU safety & security research efforts. In order to facilitate and channel research efforts, a Staff Unit Research and Innovation Management has been installed at THW Headquarters, reporting directly to the Head of Operations Branch.

#### Profile(s) of expert(s) involved

**Klaus-Dieter Büttgen** (male) completed his mandatory one-year military service in 1990 after graduating from high school.

Thereupon he studied jurisprudence at the Albertus-Magnus-University in Cologne until 1998. After successfully passing his bar exam, he practiced law as an attorney specialized in tenancy law.

Klaus-Dieter Büttgen joined THW in 2008. He filled the position of Deputy Head Operations until 2009, when he became Head of Operations Division, North Rhine-Westphalia State Bureau.

Beginning of 2014, he was transferred to THW Headquarters in Bonn, as Deputy Head of General Affairs Division, specialized in Safety & Security Research.

Since April 2015, the former Safety & Security Research Team has been re-organised as Staff Unit Research and Innovation Management, Klaus-Dieter Büttgen being the Head of Staff Unit.

#### List of relevant publications, and/or products, services

##### International Networks, Partners, Cooperation activities:

- Implementing contract with UNHCR
- Cooperation with WFP (Logisticians for HQ Support)
- Founding member of INSARAG (United Nations Search and Rescue Advisory Group)
- Deployment of units and experts within the European Union Civil Protection Mechanism
- Implementing Training workshops for experts within the European Union civil Protection

**Mechanism**

- Member States' Specialised Agency of DG ECHO
- Implementing TTX and FEX for the European Union Civil Protection Mechanism

**National Cooperation Partners:**

- Fire departments
- Police
- Relief organisations
- Public institutions
- Federal agencies
- Operators of critical infrastructures
- Military (CIMIC)

**Relevant projects/ activities**

- DRIVER (2014-today): FP7 demo project, DRIVER aims to develop a portfolio of tools for crisis management solutions and organize European test-beds for solutions testing and experiment. As the German Federal Government's disaster relief organization THW represents the perspective of volunteer organized civil defence and disaster assistance in Germany. In DRIVER THW is as an end-user in charge of "advising on the development of various methods and tools" as well as "providing training grounds". The responsibilities include the "development of decision-making" as part of the multidisciplinary approach.
- RECONASS - Reconstruction and Recovery planning: near real-time construction damage, loss and needs assessment (Dec 2013-today): FP7 project, RECONASS provides a monitoring system for constructed facilities that will provide a near real time, reliable, and continuously updated assessment of the structural condition of the monitored facilities after a disaster, with enough detail to be useful for early and full recovery planning.

**Significant infrastructure and major items of technical equipment relevant to the proposed work**

- THW Federal Training Academy
- Technical Training Centre Hoya (Bremen)
- Training Centre for Leadership Neuhausen (Stuttgart)

**Contribution to the project**


THW is the only non-police end user of the German government in non-police crisis management. As such, THW will actively support the project by representing the practitioners' perspective. THW's contribution as an end-user will be complementary to those of academia and industry in order to ensure the project adds tangible value for end users across Europe.

For this project effort specifically, THW will bring to the table its long lasting experience as a certified HEAVY Team Operator in the field of Urban Search and Rescue (USAR). THW is a founding member of UN INSARAG and as such, its Rapid Deployment Unit Urban Search and Rescue (SEEBA, est. 1988) meets the INSARAG Guidelines:

- Ready to deploy max 6 hrs post-alert

- Team size: up to HEAVY TEAM according to and classified by UN INSARAG
- Self-sufficient for 10 days

In addition, Urban Search and Rescue as well as High Capacity Pumping or Water Purification are examples of the major tasks in domestic operations carried out by THW. Furthermore its Rapid Deployment Unit Water Supply Abroad (SEEWA) supports during natural disasters since 2004. Due to this profound expertise in the sphere of USAR, THW will **lead the Thematic Working Group (TWG) D, Natural Disasters crisis mitigation** in the FIRE-IN effort.

5	GFMC	Type	Website	Germany
<b>Organisation Description</b>				
 <p><b>The Global Fire Monitoring Center</b> is an institution of the Max Planck Institute for Chemistry, Max Planck Society for the Advancement of Science, located on the campus of Freiburg University, Germany, and is an Associated Institute of the United Nations University (UNU). With relevance to the FIRE-IN concept the GFMC has the following experience in networking: Between 1993 and 2014 the GFMC coordinated the first major international network under the UN Economic Commission for Europe (UNECE) by leading UNECE/FAO Team of Specialists on Forest Fire. The work of the Team focused on providing guidance to the 56 UNECE member states through transboundary cooperation in fire management. Since 2001, GFMC is serving as a coordinator and facilitator for the UNISDR Wildland Fire Advisory Group and the UNISDR Global Wildland Fire Network, a global voluntary network consisting of 14 Regional Wildland Fire Networks on all continents, that is providing policy advice, and science and technology transfer to enable nations to (a) reduce the negative impacts of vegetation fires (“wildland fires”) on the environment and humanity; and (b) advance the knowledge and application of the ecologically and environmentally benign role of natural fire in fire-dependent ecosystems, and sustainable application of fire in land-use systems. Under the UNISDR Global Platform for Disaster Risk Reduction the GWFN served as a “Thematic Platform” (until 2015) and is currently on the shortlist of candidates to be selected as UNISDR partners for the implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030.</p> <p>The GFMC provides a global portal for wildland fire documentation, information and monitoring and is publicly accessible through the Internet (<a href="http://www.fire.uni-freiburg.de">http://www.fire.uni-freiburg.de</a>). Web-based information and GFMC services include e.g. (relevant to the FIRE-IN concept):</p> <ul style="list-style-type: none"> <li>◆ Interpretation, synthesis and archive of global fire information</li> <li>◆ Support of Nations and international organizations to develop long-term strategies or policies for wildland fire management, including community-based fire management approaches and advanced wildland fire management training for decision makers, especially in the preparedness of wildfire disasters</li> <li>◆ Serve as advisory body to the UN system through the coordination of the UNISDR Global Wildland Fire Network (<a href="http://www.fire.uni-freiburg.de/GlobalNetworks/globalNet.html">http://www.fire.uni-freiburg.de/GlobalNetworks/globalNet.html</a>) and the UNISDR Wildland Fire Advisory Group (<a href="http://www.fire.uni-freiburg.de/GlobalNetworks/Rationale-and-Introduction-1.html">http://www.fire.uni-freiburg.de/GlobalNetworks/Rationale-and-Introduction-1.html</a>)</li> <li>◆ Emergency hotline and liaison capabilities for providing assistance for rapid assessment and decision support in response to wildland fire emergencies under cooperative agreements with the</li> </ul>				

UNEP/OCHA Joint Environment Unit (JEU), Emergency Services Branch ([http://www.fire.uni-freiburg.de/emergency/un\\_gfmc.htm](http://www.fire.uni-freiburg.de/emergency/un_gfmc.htm))

In Europe the GFMC has been serving in the past and is currently mandated as

- ◆ Lead of the UNECE/FAO Team of Specialists on Forest Fire (1993-2014) (<http://www.fire.uni-freiburg.de/intro/team.html>) and [http://www.unece.org/fileadmin/DAM/timber/Content/website/ToS\\_Forest\\_Fire.pdf](http://www.unece.org/fileadmin/DAM/timber/Content/website/ToS_Forest_Fire.pdf)
- ◆ Center of the Network of Specialised Euro-Mediterranean Centres of the European and Mediterranean Major Hazards Agreement (EUR-OPA), Council of Europe (ongoing) (<http://www.coe.int/en/web/euoparisks/gfmc>)
- ◆ Policy advisor and field implementation for the Environment and Security Initiative (ENVSEC), under the auspice of the Organization for Security and Cooperation in Europe (OSCE) (ongoing) ([http://www.fire.uni-freiburg.de/GlobalNetworks/SEEurope/SEEurope\\_8.html](http://www.fire.uni-freiburg.de/GlobalNetworks/SEEurope/SEEurope_8.html))
- ◆ Secretariat of the International Fire Aviation Working Group (IFAWG), which is developing the International Fire Aviation Guidelines (since 2008) (<http://www.ifawg.org/>).

The GFMC aims to involve wildland fire management specialists who have experience in European networking, e.g.:

- Conveners and partners of the former “European Forest Fire Network” (EUFOFINET) Project “Cooperation to face wildfire challenges in Europe” (INTERREG IVC), including the Catalanian GRAF Bombers (CGT) and the Pau Costa Foundation. **URLs:** <http://www.fire.uni-freiburg.de/iwpm/International-Wildfire-Preparedness-IWPM-Brief.pdf> and <http://www.paucostaoundation.org/>
- Partners of Working on Fire Europe, branch of Working on Fire International, a global network of services for training and managing wildland fire. **URL:** <http://www.workingonfire.com/images/WORKING%20ON%20FIRE%20EUROPE.pdf>
- Drafting team of the European Forest Risk Facility, a proposed facility to support exchange of expertise in fire management in Europe. **URL:** <http://www.friskgo.org/>
- Members of the European Forest Fire Information System (EFFIS) network of experts, a team working on statistical reporting of forest fires in Europe. **URL:** <http://forest.jrc.ec.europa.eu/effis/about-effis/effis-network/>
- Leadership of the Regional Southeast European / Caucasus Fire Monitoring Center and the Regional SE European / Caucasus Wildland Fire Network, which are working on interoperability and cross-boundary cooperation in fire management. **URLs:** <http://www.fire.uni-freiburg.de/GlobalNetworks/SEEurope/SEEurope.html> and <http://www.rfmc.mk/>
- Leadership of the Regional Eastern European Fire Monitoring Center and the Regional Eurasia Wildland Fire Network, which are working on interoperability and cross-boundary cooperation in fire management. **URLs:** <http://www.fire.uni-freiburg.de/GlobalNetworks/BalticRegion/BalticRegion.html> and <http://nubip.edu.ua/en/reefmc>

### Profile(s) of expert(s) involved

**Johann Georg Goldammer** (male) is serving as director of GFMC. The GFMC is a contribution of Germany to the United Nations International Strategy for Disaster Reduction (UNISDR). At Freiburg University he is serving as professor for fire ecology. He is also serving as coordinator the UNISDR Wildland Fire Advisory Group and the UNISDR Global Wildland Fire Network. After the phasing out of the UNECE-FAO Team of Specialists on Forest Fire, which he led between 1993 and 2014, he is

now working through the Organization for Security and Cooperation in Europe (OSCE) in enhancing fire management capabilities in several OSCE Participating States, notably through the Environment and Security (ENVSEC) Initiative. He is working closely with a number of specialized UN agencies and programmes, such as the UNEP-OCHA Joint Environment Unit, Emergency Services Branch. He is also serving as Secretary of the International Fire Aviation Working Group (IFAWG), which has developed the International Fire Aviation Guidelines and the International Manual of Common Rules for Fire Aviation.

#### List of relevant publications, and/or products, services

- Global Fire Monitoring Center (GFMC) 2004. Special issue – The ISDR Global Wildland Fire Network. Int. Forest Fire News No. 31. [http://www.fire.uni-freiburg.de/iffn/iffn\\_31/content31.htm](http://www.fire.uni-freiburg.de/iffn/iffn_31/content31.htm)
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- Goldammer, J.G. (ed.). 2013. Vegetation Fires and Global Change. Challenges for Concerted International Action. A White Paper directed to the United Nations and International Organizations. Kessel Publishing House, Remagen-Oberwinter, 398 p. (ISBN 978-3-941300-78-1). <http://www.forestrybooks.com/>
- Goldammer, J.G. (ed.) 2013. Prescribed Burning in Russia and Neighbouring Temperate-Boreal Eurasia. A publication of the Global Fire Monitoring Center (GFMC). Kessel Publishing House, 326 p. (ISBN 978-3-941300-71-2). <http://www.forestrybooks.com/>
- De Ronde, C., and J.G. Goldammer. 2015. Wildfire Investigation. Guidelines for Practitioners. A publication of the Global Fire Monitoring Center (GFMC). Kessel Publishing House, 131 p. (ISBN: 978-3-941300-99-6) <http://www.forestrybooks.com/>
- One major achievement is detailed below: **Outcomes of the UNECE/FAO Regional Forum on Cross-Boundary Fire Management.** In 2013 the GFMC had been entrusted by the United Nations Economic Commission for Europe (UNECE) to prepare and organize the UNECE/FAO Regional Forum on Cross-boundary Fire Management (28-29 November 2013 at the United Nations in Geneva). The Forum was attended by 22 UNECE Member States and representatives from other regions, non-government organizations, regional and international organizations (ASEAN Secretariat, SADC Secretariat, Council of Europe, OSCE), and the United Nations (UNECE / FAO Forestry and Timber Section; FAO; UN Office for Disaster Risk Reduction / UNISDR; OCHA Environmental Emergencies Section, Joint UNEP/OCHA Environment Unit, Emergency Services Branch; Secretariat of the UNECE Convention on Long-Range Transboundary Air Pollution). The main objective of the Forum was to elaborate recommendations to UNECE member states and the international community to build resilience of nations and communities to wildfire emergencies and disasters by enhancing national and collective international fire management capability through exchange of expertise. Based on the discussion of several preparatory studies and documentations, the participants of the Forum came up with a set of recommendations that are published on the website of the UNECE/FAO Team of Specialists on Forest Fire (<http://www.fire.uni-freiburg.de/intro/team.html>).

#### Relevant projects/ activities

The GFMC has led, coordinated and participated in several dozen regional and global projects addressing wildland fire science and management. A few exemplary projects covering the European region are mentioned:

- **Development of EuroFire Competency Standards** -Development of training materials for training firefighters (Level 2) of European Fire Services in Wildland Fire Management, notably the member organizations of the International Organization of Fire and Rescue Services (CTIF), and the Forest Fires Commission. Duration: 2006-2008 (core project period with funding; since then ongoing with GFMC resources). Client: EU (Leonardo da Vinci programme). Funding: Total €M10.7 (EU: €M7.5). By early 2016 all materials are available in 14 languages and applied in the EU, SE Europe, South Caucasus, Russia and Ukraine, Central Asia, Latin America. URL: <http://www.euro-fire.eu/>
- **DARIUS** (Deployable SAR Integrated Chain with Unmanned Systems), sponsored by the FP7 Security Call "SEC-2011-1, 10.4.2-2: Unmanned Search and Rescue Solutions" - Integration of Unmanned Systems in Search and Rescue (SAR) operations. Submitted under the 4th Security Call of the EC's 7th Framework Programme, DARIUS put effort on the aspects that have not or little been covered for the use of the unmanned systems in SAR operations, namely to enhance the interoperability performances at procedural and technical levels. GFMC role: Backstopping of the project partners through National Technical University of Athens on the Forest Fire Sub-theme. Duration: 2012-2015. Funding: Total €M10.7 (EU: €M7.5). URL: [http://www.spaceteccpartners.eu/sites/default/files/attachments/08-day1-darius\\_project\\_overview.pdf](http://www.spaceteccpartners.eu/sites/default/files/attachments/08-day1-darius_project_overview.pdf)
- **Study on wild fire fighting resources sharing models** - To analyse the systems for sharing assets for wildfires and forest fires that have been put in place in five non-EU countries; to compare those systems among each other, to propose options that could improve the European arrangements; and to make an assessment of the advantages and disadvantages of the proposed options, if applied at EU level, including economical efficiency. GFMC role: Advisory service. Duration: 2009-2010. Client: DG ECHO, European Commission. Funding: €M 0.1. URL: [http://ec.europa.eu/echo/files/civil\\_protection/civil/prote/pdfdocs/future/Wildfire\\_Final\\_Report.pdf](http://ec.europa.eu/echo/files/civil_protection/civil/prote/pdfdocs/future/Wildfire_Final_Report.pdf)
- **Fire Paradox** - To provide scientific and technical corner stones, to learn to live with fire, particularly in using prescribed fire and counterfiring (backfiring) for wildfire suppression. GFMC role: Members of several WPs. Duration: 2006-2009. Client: European Commission. Funding: €M 11.4. URL: <http://www.fireparadox.org/>
- **German Research Network Natural Disasters (DFNK), Cluster "Early Warning, Monitoring, Information Management and Simulation of Forest Fire Danger"** - Appropriate knowledge and decision-support systems are required to handle larger forest fires in the future. Within the DFNK a Work Package / Cluster "Early Warning, Monitoring, Information Management and Simulation of Forest Fire Danger" was included. GFMC role: Cluster coordinator. Duration: 1999-2003. Client: Government of Germany. Funding: €M 0.3. URLs: <http://dfnk.gfz-potsdam.de/> and [http://www.fire.uni-freiburg.de/feuerokologie/abschluss\\_2001.htm](http://www.fire.uni-freiburg.de/feuerokologie/abschluss_2001.htm)
- **UNECE/FAO Regional Forum on Cross-boundary Fire Management.** - Elaboration of recommendations to UNECE member states and the international community to build resilience of nations and communities to wildfire emergencies and disasters by enhancing national and collective international fire management capability through exchange of expertise. GFMC role: Convener and organizer. Duration: 2012-2014. Client: Government of Germany and United Nations Economic Commission for Europe (UNECE). Funding: €M 0.35. URL: <http://www.fire.uni-freiburg.de/iwpm/background.htm>

**Significant infrastructure and major items of technical equipment relevant to the proposed work**

The GFMC provides office and IT infrastructure, official vehicles, medium-sized in-house meeting room and large conference rooms on campus of Freiburg University with audio-visual equipment for remote conference participation.

#### Contribution to the project

The Global Fire Monitoring Center (GFMC) will lead one of the 5 Thematic Working Groups to refine discipline parameters and identify capability challenges within WP 1: TWG “Vegetation Fires Crisis Mitigation”.

The relevant expertise is provided above and includes, among other, the expertise of GFMC in networking globally and in Europe of the community of wildland fire management practitioners, administrations (agencies), policy makers and the wildland fire science community.

6	EU-VRI	Type	Website	Germany
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#### Organisation Description



**The European Virtual Institute for Integrated Risk Management (EU-VRI, [www.eu-vri.eu](http://www.eu-vri.eu))** is the European organization which provides professional service, consulting and education in the broad area of integrated risk management and, in particular, the management of emerging risks.

Founded in 2006, the Founding Members are: Bay Zoltan (Hu), INERIS DEVELOPPEMENT (F), Steinbeis R-Tech (D), Technologica (B) and University of Stuttgart (D). EU-VRI is organized as an European Economic Interest Grouping (EEIG) and gathers 50+ associated members from EU and other countries, coming from industry/SMEs, R&D, academia as well as from governmental and non-governmental/international organizations

EU-VRI provides services to industry, the research community and/or public authorities in relation with its members' activities, and acts as a broker and a vehicle for exchange of knowledge between research, industry, and regulators. The activities of the institute include research, project development, consortia building, dissemination & exploitation, and support to standardization. EU-VRI is the Operating Agent of (the European Technology Platform for Industrial Safety (ETPIS, [www.industrialsafety-tp.org](http://www.industrialsafety-tp.org)) and of the Society for Risk Analysis Europe, [www.sraeurope.org](http://www.sraeurope.org)). From 2010 on, EU-VRI has increased its participation in projects dealing with security aspects by contributing with its large experience and its network relevant for the common challenges of safety and security. By integrating the research activities and the communities previously working separated, experience and solutions are shared and synergy effect are generated. As the Operating Agent of the Cross European Technology Platform for Industrial Safety (ETPIS, [www.industrialsafety-tp.org](http://www.industrialsafety-tp.org)), EU-VRI is currently discussing with the European Commission and relevant stakeholders the formal inclusion of security in its scope.

#### Profile(s) of expert(s) involved

**Olivier SALVI**, (male) graduated in 1994 as Engineer in Environment and Industrial Risk (Ecole des Mines d'Alès).

Working at INERIS, the French National Institute in charge of Industrial risk and environment protection between 1995 and 2013, he was in charge of research programmes in the field of Risk Assessment and Management (1995-2001), and research programme portfolio in the Accidental Risks Division (about 5 M€ / year) (2001-2007). He is now the CEO of INERIS DEVELOPPEMENT, the

company in charge of the international development of INERIS activities.

Co-founder and acting General Manager of the European Virtual Institute for Integrated Risk Management (EU-VRi). Experience in supervising research projects under FP5, FP6 and FP7. He personally initiated and co-ordinated several European projects in the field of industrial safety and risk management, with application in various sectors such as industrial safety, nanotechnologies, renewable energies and policy making. Since its creation in 2005, he is the Secretary General of the European Technology Platform on Industrial Safety (ETPIS, [www.industrialsafety-tp.org](http://www.industrialsafety-tp.org)).

**Prof. Dr. Aleksandar JOVANOVIC**, (male): He has worked in industry (e.g. in USA), for The European Community (e.g. in Italy) and for the universities (e.g. the University of Stuttgart, Germany). He also acted as Seconded National Expert (Germany) with the EU in Brussels, Belgium, Directorate-General Research – Industrial Technologies and Materials. Since 2001 he is the director of the Steinbeis Transfer Center Advanced Risk Technologies in Stuttgart, Germany providing consultancy in the areas of risk assessment and management for industry and public sector. As from 2006 is also the CEO of European Virtual Institute for Integrated Risk Management (EU-VRi) and the EU Project Director at ZIRIUS (Center for Interdisciplinary Risk and Innovation Studies, University of Stuttgart), teaching the courses in the area of CSR (Corporate Social Responsibility) and Risk. His previous teaching assignments were in France (Ecole Polytechnique), Japan (University of Tokyo), USA (La Jolla) and other countries. A. Jovanovic has a long-term professional experience as project manager of many (50+) large international/multinational projects in the area innovation management, new technologies, business risk management, structured project management, advanced data analysis and data mining, and related areas. Main clients in the projects have been from the EU, national governments (Norway, Belgium, Japan...), industry, utilities, insurances companies, R&D and academia. Main topics covered by the current projects deal with risk management in industry including HSSE (Health, Safety, Security, Environment), RCM (Reliability Centered Maintenance), RBI (Risk-Based Inspection), KPIs (Key Performance Indicators) and RCFA (Root Cause Failure analysis), applied, e.g., in systems developed for large industrial companies (e.g. 62 refinery units in Hungary). Some of the solutions have been pre-standardized (CEN-CWA 15740:2008) and/or are often used as de-facto standards. He is author of three books and over 200 publications.

**Bastien CAILLARD** (male), graduated in 2010 as Engineer in Mechanical Engineering (Ecole des Mines d'Alès, FR). The same year, he obtained a Master in Management of the Organizations - Management of International Projects (Strasbourg University, FR). Since 2010, he is working as a project manager at EU-VRi, the European Virtual Institute for Integrated Risk Management, in Stuttgart (Germany). He has developed skills in coordination of collaborative projects related to new energy, emerging risks and nanosafety. He has coordinated several FP7 projects such as nanoSTAIR (Establishing a process and a platform to support standardization for nanotechnologies implementing the STAIR approach), STABALID (STationary Batteries LI-ion safe Deployment), ALFA-BIRD (Alternative fuels and biofuels for aircraft development) and SafeLife-X (Safe Life Extension management of aged infrastructures networks and industrial plants), and has been involved in several further European R&D projects like currently NanoReg2. He is also deeply involved in the dissemination and exploitation of the project results. Since March 2010, he is also member of the technical secretariat of the European Technology Platform on Industrial Safety (ETPIS) which deals with accidental and chronic risks.

#### List of relevant publications, and/or products, services

- Jovanovic, O. Renn, O. Salvi, Eds. (2011). 3rd iNTeg-Risk Conference: New Technologies & Emerging Risks / Risk vs. Risk: Managing Risk-Benefits Tradeoffs in Complex Systems, Stuttgart (Germany). Steinbeis Edition 2010, ISBN: 978-3-938062-91-3
- Merad M., Rodrigues N., Salvi O., Urbanization control around industrial SEVESO sites: the French context. International Journal of Risk Assessment and Management, 2008, vol. 8, n° 1-2, pp. 158-

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- Co-editor of the Special Issue of Journal of Hazardous Materials: Outcomes of the ARAMIS project (Accidental Risk Assessment Methodology for IndustrieS in the framework of SEVESO II directive), New stakes and opportunities in the control of major accident hazards. Vol. 130, including the several papers, in particular:
- Salvi O., Debray B., 2006, A global view on ARAMIS, a risk assessment methodology for industries in the framework of the SEVESO II directive. Journal of Hazardous Materials, 2006, vol. 130, n° 3, pp. 187-199.
- Salvi O., Gaston D., 2004, Risk assessment and risk decision-making process related to hazardous installation in France, Journal of Risk Research, 2004, vol. 7, n°6, pp. 599-608
- Salvi O., Key Note Speech, How to improve the control of major accident hazards? 2nd International conference on risk analysis and crisis response, 19-21 october 2009, Beijing, China.
- Tixier J., Dandrieux A., Dusserre G., Bubbico R., Luccone L.G., Mazzarotta B., Silvetti B., Hubert E., Rodrigues N., Salvi O., Gastp, D., 2004, Vulnerability of the environment in the proximity of an industrial site. Loss prevention and safety promotion in the process industries: proceedings of the 11th International Symposium, 31 May - 3 June 2004, Praha, Czech Republic: PetroChemEng, 2004, pp. 1260-1267, Pasman H.J., SkarkaJ., Babinec F. (Eds.).
- Tixier J., Dusserre G., Salvi O., Gaston D., 2002, Review of sixty-two risk analysis methodologies, Journal of Loss
- Prevention in the Process Industries. Vol. 15. pp 291-303.

#### Relevant projects/ activities

- **iNTeg-Risk** - Early recognition, monitoring and integrated risk management of emerging, new technology related risks (GA CP-IP 213345-2) Duration: 54 Months - Partners 63 (Large collaborative project FP7) - Budget/EC Grant: approx. 19.5/13.6 M€ - [www.integrisk.eu-vri.eu](http://www.integrisk.eu-vri.eu)
- **NANODEVICE** - Novel Concepts, Methods, and Technologies for the Production of Portable, Easy-to-Use Devices for the Measurement and Analysis of Airborne Engineered Nanoparticles in Workplace Air – Duration: 48 Months - Partners: 27 (Large collaborative project FP7) - Budget/EC Grant: approx. 12.8/9.5 M€ - [www.nano-device.eu](http://www.nano-device.eu)
- **SCAFFOLD** - Innovative strategies, methods and tools for occupational risk management of manufactured nanomaterials in the construction industry - Duration: 36 Months – Partners: 14 (Focus research project FP7) - Budget/EC Grant: approx. 3.7/2.5 M€ - [www.scaffold.eu-vri.eu](http://www.scaffold.eu-vri.eu)
- **ETPIS** (European Technology Platform for Industrial Safety, [www.industrialsafety-tp.org](http://www.industrialsafety-tp.org) ). The platform is an open forum in the field of industrial safety gathering more than 600 experts from industry, research organization, policy makers, NGOs... ETPIS helps to coordinate the investment in research by supporting the identification of research challenges and by organizing technical event such as workshops and brokerage events.
- **SRA-Europe** (Society for Risk Analysis Europe, [www.sraeurope.org](http://www.sraeurope.org) ). SRA-E is a scholarship association in the field of risk analysis which is the regional group of SRA International ([www.sra.org](http://www.sra.org)).

#### Significant infrastructure and major items of technical equipment relevant to the proposed work


N/A

**Contribution to the project**

EU-VRI will take a key role in WP2 - **Standardisation and RDI screening and identification of the potential and relevant implementations** on the screening of available solutions from Industry, promising solutions from RDI, and existing standards as well as on the work on the draft Strategic Research and Standardisation Agenda (SRSA).

It will also contribute to the WP3 **Collaboration with research, industry and standardization bodies and recommendations** and lead **task 3.1 Consultation with industry, standardisation and policy to prioritise RDI gaps** (Methodology task).

Finally it will lead the task 4.4 **Exploitation and Sustainability**. EU-VRI is operating the European Technology Platform on Safety and Security (former ETP on industrial safety ETPIS, [www.industrialsafety-tp.org](http://www.industrialsafety-tp.org)) and will use this role to further operate with FIRE-IN after the end of the project. As such, it will support pole SAFE in the last months of the project in order to propose a business plan and a business model for the sustainability of the project results and the FIRE-IN network in particular. It will further contribute

7	FhG-INT	Type	Website	Germany
<b>Organisation Description</b>				
 <b>Fraunhofer</b> <b>INT</b> <p>The <b>Fraunhofer-Gesellschaft</b> is the leading organization for applied research in Europe. Its research activities are conducted by 66 institutes and research units at locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of nearly 24,000 people, who work with an annual research budget totalling more than 2 billion euros. Of this sum, around 1.7 billion euros is generated through contract research. More than 70 percent of the Fraunhofer-Gesellschaft contract research revenue is derived from contracts with industry and from publicly financed research projects. International collaborations with excellent research partners and innovative companies around the world ensure direct access to regions of the greatest importance to present and future scientific progress and economic development.</p> <p>The Fraunhofer Institute for Technological Trend Analysis (INT) creates, and continually updates, a comprehensive overview of the security and defence related Research and Technology landscape and of the entire spectrum of technological and conceptual developments, nationally and internationally. INT consolidates the general overview with its own specialized analysis and forecasts of technological developments in selected technologies as well as methodologies. Moreover, it supports research level capability development processes including requirement identification and facilitation of a structured dialogue between supply and demand side in the security and defence domain, thus being able to support national &amp; international research and organizational planning and innovation processes. INT, further, has strong expertise in crisis management research and in nuclear and electromagnetic effects including threats by High Power Microwaves (HPM).</p>				
<b>Profile(s) of expert(s) involved</b>				
<p><b>Merle MISSOWEIT</b> (female), PhD, is a senior researcher at Fraunhofer INT, leading the unit for Strategic Research Planning and Innovation Management. She has a background in biology and physics. In her current work she has been focusing on crisis management innovation planning, being the coordinator and scientific coordinator, respectively, of the FP7 Demonstration Phase I and II</p>				

projects ACRIMAS (Aftermath Crisis Management System-of-systems) and DRIVER (Driving Innovation in European crisis management and Resilience). She is engaged in several other FP7 security research projects and activities as well as in several advisory roles. Merle is also an advisor to the EC, currently as member of the Protection and Security Advisory Group and of the H2020 Advisory Group on International Cooperation. She also represents the Fraunhofer Association for Defence & Security in the EARTO Security Working Group. Further, on the defence side, she has been active in international R&T planning support for the armament branch of the German Federal Ministry of Defence including the support of the German MoD's participation in the development and implementation process of several EDA initiatives (EDRT Strategy, Capability Development Plan etc.).

**Michael LÖSCHER** (male), (1979) graduated in 2008 as Magister Artium in Social Science at the University of Stuttgart. His main interests and competences are related to technical and societal risks of new technologies and innovations. In addition, he is committed to strategies and concepts aiming at the integration of safety, security, and resilience. He currently works at the European Virtual Institute for Integrated Risk Management as Senior Project Manager and member of the Executive Board. In September 2015 he joined the Steinbeis Advanced Risk Technologies GmbH and the Fraunhofer Institute for Technological Trend Analysis INT as Project Manager. Currently, Michael is part of the Management Board of the FP7 large scale demonstration project EDEN (End-user driven DEMo for cbrNE). He is in charge of standardization aspects and manages the "Supplier Platform" of the project. In addition, Michael is contributing to the FP7 large scale demonstration project DRIVER (Driving Innovation in Crisis Management for European Resilience) as Scientific Leader of the project.

**Milos JOVANOVIĆ** (male), PhD, studied modern history, political science, media science and information science at the Heinrich-Heine University in Düsseldorf. He joined the Fraunhofer INT as a PhD student in the department of Meta-Analysis and Planning Support in 2006 (graduated as PhD in 2011). His current activities are focused on bibliometrics and methods of technological forecasting and on planning processes, strategies and projects in the field of R&T related to security and defence and general methods and tool implementation. He took part in the FP7 project INNOSEC, which dealt with innovation management practices in practitioner organisations and coordinated the FP7 project EvoCS, which dealt with the evolving concept of security in Europe. At the moment, he is involved in the coordination of an annual research report from the Ministry of Defence of Germany and leading the group "Tools and Methods" at Fraunhofer INT. He is a lecturer at the Heinrich-Heine University Düsseldorf where he gives classes on project management and bibliometrics.

#### List of relevant publications, and/or products, services

- Member of the Protection and Security Advisory Group and of the H2020 Advisory Group on International Cooperation
- Member of the European Association of RTOs' Security Working Group: providing the link to a broader research network

#### Selected publications:

- Wehrtechnische Vorausschau (WTV, Defence R&T Forecasting Report, four times per year, classified)
- D Ivanović, M Jovanović, F Fritsche (2016): „Analysis of scientific productivity and cooperation in the republics of former Yugoslavia before, during and after the Yugoslav wars“, Scientometrics, 1-21
- Jovanovic, M; Fritsche, F (2011): "There goes another one: Introducing the NUCA-set of indicators",

13th International Society of Scientometrics and Informetrics (ISSI) Conference, 1, 333-338

- M. Vollmer, M. Hamrin, H.-M. Pastuszka, M. Missoweit, D. Stolk . 2012. Improving Aftermath Crisis Management in the European Union. UNU-EHS Publication Series, Policy Brief No. 4.
- [http://i.unu.edu/media/unu.edu/publication/000/027/514/Policy-Brief-4\\_web1.pdf](http://i.unu.edu/media/unu.edu/publication/000/027/514/Policy-Brief-4_web1.pdf)
- M Jovanović (2011): „Fußspuren in der Publikationslandschaft: Einordnung wissenschaftlicher Themen und Technologien in grundlagen- und anwendungsorientierte Forschung mithilfe bibliometrischer Methoden“
- J. Burbiel, B. Becker, S. Grigoleit, M. Missoweit, S. Müller, B. Pinzger, S. Römer, R. Schietke, J. Schulze. 2011. esfo – the information system on European security research. In: Ender, J.: Future Security 2011. 6th Security Research Conference. Proceedings: Berlin, 5. – 7. September, 2011. Stuttgart: Fraunhofer Verlag, 2011, S. 287-288, URN urn:nbn:de:0011-n-1795900.
- M. Missoweit, H.-M. Pastuszka, M. van Berlo, M. Hamrin 2011. FP7 project ACRIMAS – aftermath crisis-management system of-systems demonstration (Security Research Conference „Future Security“ 6, 2011, Berlin>). In: Ender, J.: Future security 2011. 6th Security Research Conference. Proceedings. CD-ROM: Berlin, 5 – 7 September 2011. Stuttgart: Fraunhofer Verlag, p. 93-100.
- M. Missoweit & H.-M. Pastuszka 2009. ESRIF – The European Security Research and Innovation Forum. Bevölkerungsschutz 4/2009: S. 30-31.
- H.-M. Pastuszka & M. Missoweit 2009. Future planning of EU security research - a contribution to the discussion. In: Elsner, P. Fraunhofer Symposium Future Security. 4th Security Research Conference 2009 : September 29th - October 1st 2009, Karlsruhe, Germany. Stuttgart: Fraunhofer Verlag, 2009. ISBN: 978-3-8396-0051-1, ISBN: 3-8396-0051-0, pp.251-256.

#### Relevant projects/ activities

- **Wehrtechnische Vorausschau (WTV)**: Defence R&T Forecasting Report; continuous, four times per year; German MoD, classified.
- **DRIVER** (Driving Innovation in crisis management and European Resilience): Large scale demonstration project on crisis management solution and test & assessment methodologies; 2014-2018; FP7.
- **EDEN** (End-user driven DEmo for cbrNE): Large scale demonstration project on CBRNE; 2013-2016; FP7.
- **INNOSEC** (INNOvation Management Models for SECurity Organizations): Development of a innovation model with a greater adaptation capacity in security organisations in order to respond effectively and efficiently to the security requirements of the European society. 2012-2014. FP7.
- **ETCETERA** (Evaluation of Critical and Emerging Technologies for the Elaboration of a Security Research Agenda): A contribution to efficient European security research planning for critical and emerging technologies. 2010-2013. FP7.
- **ACRIMAS** (Aftermath Crisis Management System-of-Systems): Phase I and strategic planning phase for the large scale demonstration project on crisis management; 2010-2012; FP7.
- **CARONTE** (Creating an Agenda for Research in Transportation Security): Development of a research agenda for security in land transport that focuses on the core relevant gaps caused by emerging risks. 2015-2016. FP7.
- **ETTIS** (European Security Trends and Threats In Society): Societal issues and trends in security research. 2012-2014. FP7.

- ESRIF (European Security Research Innovation Forum): Sherpa for ESRIF Member and Head of Working Group 4 “Crisis Management”, Christoph Unger; 2007-2009. German Federal Office for Civil Protection and Disaster Management.


#### Significant infrastructure and major items of technical equipment relevant to the proposed work

N/A

#### Contribution to the project

Fraunhofer INT will contribute to the following WPs and tasks:

- **WP1: Identification of capability challenges.** INT will contribute to WP 1 with its expertise in the identification of capability gaps and challenges. INT has a long tradition of capability development support for government actors in the military and security domain (military: German MoD, EDA Capability Development Plan; security: e.g. ACRIMAS and DRIVER project on capability development in crisis management, ETCETERA project on a research agenda for critical and emerging technologies, CARONTE project on transport security; see also below). Thus, it will mainly provide methodology for identification and selection processes in WP1.
- **WP2: Definition of common capability challenges.** INT will contribute to WP2 by bringing in expertise derived from requirement harmonisation processes in the European Defence Agency (EDA) and the Lol6 group where it supported such processes scientifically for the German MoD. Further, INT will contribute expertise from its work as an advisor to DG HOME on the harmonisation work in the US First Responder Group.
- **WP3/WP4: Platform & Workshops.** For the interactive parts of the stakeholder workshops and the platform INT will contribute methodologies for stakeholder interaction and for structured dialogue between supply and demand side on technology and capability development (e.g. FLEXIT gaming, INNOCSEC approach, ACRIMAS methodology, ETCETERA methodology).
- **WP5: RDI Screening.** INT has 30 years of experience in continuous technology screening and forecasting for the German MoD and in a number of civil projects. This knowledge can be brought in in order to set up a sustainable screening mechanism for the network.

8	PCF	Type	Website	Spain
<b>Organisation Description</b>				
<div>  <p>The <b>Pau Costa Foundation</b> is the leading organization in advocating a profound change in the perception of landscape fire ecology and facilitating fire management at the landscape level through bridging the gap between research and practitioners. It aims to change the concept of fire prevention towards a concept of fire resistant landscapes.</p> <p>It serves as an (network) acknowledged coordination platform and contact point for knowledge exchange and transfer in the field of fire ecology research and operational fire management for training and for wildfire management. For this, the Foundation is focusing on fire operations, forest fire training programs and carrying out and supporting basic and applied fire ecology research, promoting landscape management planning and certification of landscape quality assisting with landscape management for climate change interventions and effectively disseminating expertise and knowledge on fire ecology research and management.</p> </div>				

The Foundation was founded with the sponsorship contribution of more than 60 founders, experts in the field of fire operations, research and development who validated and consolidated the project. The knowledge of these founders it gives a high value to the entity.

Furthermore, the recognized international supervisory board gives the necessary vision in the fields of operations, science research and contact with the society.

#### **International agreements with private companies and public authorities in the field of forest fire:**

- European agreements: Fire and Rescue Service of Catalonia, Institute of Public Security of Catalonia, Red Eléctrica Española, UIMP Barcelona, Budenheim, VALLFIREST, Forest Sciences Centre of Catalonia, University of Lleida, Autonomous University of Catalonia, ASPARC, FUEGORED National Network, Fire and Rescue Service Andorra, Institut Cerdà.
- Australia: Royal Melbourne Institute of Technology.
- North America: International Association of Wildland Fire, Wildland Restoration International, NFPA, Metropolitan College of New York, AIR TRACTOR, EMXSYS.
- South America: CONAF.
- Africa: Working on Fire International Network.

#### **Profile(s) of expert(s) involved**

**Oriol Vilalta Caellas** (male). Director. MSc degree in biology, finished his studies on landscape fire ecology and fire response of the vegetation. In 2005 he started to work at the Catalan Fire Service, as a fire specialist in the wildland fire areas and he has been a member of “Bombers Voluntaris de la Generalitat” since 2006. Likewise, he is an official trainer on wildland fire at the Catalan Fire and Rescue Academy. He was involved in the Fire Paradox project, leading the best practices on fire operations and training across Europe, developing training programs to use technical fire as a management and as tool to suppress fires in several countries around Europe and south part of the Mediterranean and international exchanges. In 2008 he starts to work as a specialist on fire behaviour at large scale and attack-methodology in the GRAF unit, Catalonia, combining his work with the momentum of the PCF as a project manager. Since 2014 he is the General Director of this institution.

**Jordi Vendrell Flotats** (male). Degree in Geography from the University of Barcelona (2010) has focused his studies on meteorology and the evolution of convection wildfires. In 2006 he began working on wildfires at the Catalan Fire Department, where in 2008 he begins working as a Technical Specialist GRAF. From here, he specializes in the study of the meteorological element, like a key, for predicting the wildfires behaviour. In 2012 he started working in Pau Costa Foundation where he is leading the R+D area, focusing his activity in fostering the knowledge sharing among fire services. He had worked in Portugal and France fire services implementing the fire analysis. He's a teacher at the Institute of Public Safety of Catalonia (ISPC) on forest fires and has given several lectures in courses and masters around the close relationship among meteorology, landscape and wildfires.

**Mariona Borràs Ruiz-Peinado** (female). Forest Engineer degree at University of Lleida in 2007, and Agricultural Engineer degree at Universitat Politècnica de Catalunya. On 2007-2008, she worked on several research projects at the ENGREF (France) on the topics of natural regeneration of the forest after storm on 1999. In 2009, she started her career on wildfires working as a coordinator inside the Catalan Fire Department on the Catalan Government Employment Plan to reduce the fire risk by reducing excess fuel from forest. Then, she continued as a Technical Specialist GRAF in the Catalan Fire Department, also involved in the FP7 Fire Paradox Project. In 2012, she started to work at the Pau Costa Foundation where she is mainly involved in R+D projects, but also leading the

Secretary and Communication Areas.

**Núria Prat Guitart**, (female). PhD on Environmental Science at University College Dublin, Ireland 2012-2016. MSc on Biology at Santiago de Compostela University 2010-2011 and Degree in Geography at Barcelona University 2006-2010. After graduating Núria worked in Geographic Information Systems and spatial modelling in the private sector. Nonetheless, the primary interests have always been the research of fire ecology, fire dynamics and fire effects on ecosystems. PhD thesis with the title: “The role of moisture content on the horizontal spread of peat fires”. She is currently working in the international programs area of the institution.

#### List of relevant publications, and/or products, services

##### Publications

- Integrating Satellite Communication, Navigation and Earth Observation to Achieve a Multi-Hazard Platform for Disaster Management: the PHAROS Platform”, C. Parraga Niebla, J. Mulero Chaves, U. Raape (DLR), M. Mendes (Tecnosylva), R. Campo (Eutelsat), J. Muna (Avanti), G. Gardikis (Space Hellas), W. Van Setten (SPMM), O. Vilalta (Pau Costa Foundation), H. Podolski (IQWireless), 20th Ka and Broadband Communications, Navigation and Earth Observation Conference, Salerno, Italy, 1-3 October, 2014
- MIRALLES, M. KRAUS, D., MOLINA, DM., LOUREIRO, C., DELOGU, G. & RIBET, N. VILALTA, O. 2010. Improving suppression-fire capacity In EFI Research Report nr. 23. “Fire Paradox”, Project no. FP6-018505, European Commission, p. 204-215  
[http://www.efi.int/files/attachments/publications/efi\\_rr23.pdf](http://www.efi.int/files/attachments/publications/efi_rr23.pdf)
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[http://www.researchgate.net/publication/266476127\\_Propuesta\\_de\\_capacitacin\\_para\\_posiciones\\_tcticas\\_en\\_Grandes\\_Incendios\\_Forestales\\_%28GIF%29](http://www.researchgate.net/publication/266476127_Propuesta_de_capacitacin_para_posiciones_tcticas_en_Grandes_Incendios_Forestales_%28GIF%29)
- VENDRELL, J.; ALTAVA, V.; PAREDES, E; Tempestes de vent. Anàlisi de l'episodi de vent del 9 de desembre de 2014.  
[http://www.forestal.cat/bdds/imatges\\_db/biblioteca/BIBLIOTECA\\_DOCUMENT1\\_604060001434\\_9633.pdf](http://www.forestal.cat/bdds/imatges_db/biblioteca/BIBLIOTECA_DOCUMENT1_604060001434_9633.pdf)
- VENDRELL, J.; GARCIA, L. Anàlisi sinòptic i d'imatges meteosat de columnes convectives en incendis forestals.
- MULERO, J.; VILALTA, O.; BORRÀS, M. Project on an Efficient Multi-Hazard Emergency Management Service Platform Design. 2nd International Conference on Fire Behaviour and Risk (ICFBR 2015)

##### Achievements:

- PCF won one of the 2013 NASA Word Wind Europe Challenge awards during the EU INSPIRE conference held in Florence, Italy in relation to the development tool created in collaboration to the EMXSYS Company, Ventura, California. <http://www.emxsys.com/>
- PCF Chairman Marc Castellnou, won the 2015 IAWF Wildland Safety Award, Chief of Forest Fire Service Area, Catalan Fire Service, Spain <http://www.catalangovernment.eu/>
- PCF is member of the European Forest Institute and member of the Batefuegos de Oro Panel (Spanish network on forest fires).

**Relevant projects/ activities**

- **Pharos Project.** The project PHAROS designed and ed an innovative multi-hazard open service platform which integrates space-based observation, satellite communications and navigation assets with other technologies providing sustainable services for a wide variety of users in multi-application domains, such as prediction/early detection of emergencies, population alerting, environmental monitoring, crisis management and risk management, targeting several users, such as crisis managers, operators of critical infrastructures, insurance companies and academic/research. PCF was a partner in the PHAROS SP7 project, leading the dissemination plan and the organisation of pilot demonstrations and user evaluations. PCF also lead the interface with the advisory board and is the main provider for end-users feedback. The experience learnt during the development of these tasks can be highly useful to develop the dissemination, communication and network management tasks of the FIRE-IN project.
- **Fireefficient Project.** The FIREfficient project (Operational tools for improving efficiency in wildfire risk reduction in EU landscapes) aims to establish a sustainable platform for efficient exchange of available knowledge in which "lessons-learned" can be made available to relevant stakeholders and public agencies at EU level, dealing with innovative operational tools and means to integrate the prediction of potential fire events into emergency strategies and land-use planning. During the project the online platform Lessonsonfire.eu has been develop in order to gather knowledge and foster networking among wildfire experts. Through this project, PCF has gained experience on online platform management and expert knowledge management that can be highly useful for the present FIRE-IN project.
- **Efirecom Project.** eFIRECOM aims at enhancing the resilience of citizens to wildfires in interface areas from the Mediterranean region, through effectively promotion and increasing awareness and participation in the culture of risk with updated knowledge and best practices. The participation of PCF in this dissemination and communication project will contribute to boost the experience of PCF in to develop the dissemination and communication tasks of the FIRE-IN project.
- **Wuiwatch Project.** WUIWATCH is the European Observatory on prevention and defense against forest fires affecting urban areas and communities in the so called Wildland-Urban interfaces (WUI) in Europe is assembling a permanent forum and a special interest group. This project addresses the need for a common approach to the problem of forest fires in the WUI in Europe and to promote the adoption of common and appropriate European wide methods, protocols, regulations and tools amongst all involved actors and stakeholders in such civil protection emergencies.
- Constant contribution to knowledge creation and continuous improvement of fire simulators, with Spanish companies (Tecnosylva) and American (EMXSYS).

**Significant infrastructure and major items of technical equipment relevant to the proposed work**

PCF headquarters, and other facilities in agreement with PCF.


**Contribution to the project**

PCF will contribute to the FIRE-IN project by providing their knowledge in vegetation fires, emergency management and knowledge capitalization. For the last five to ten years PCF has developed and engaged a community of vegetation fire practitioners and stakeholders across Europe and internationally that will be actively involved in the project actions.

PCF will contribute to coordinate the stakeholder engagement process in two separate work packages of the project. Firstly, will contribute on the coordination and engagement of Thematic Working Group C

‘Vegetation fires and Crisis Mitigation’ (Work Package 1). Moreover, PCF will bring their experience and knowledge of the needs and challenges from the vegetation fire emergency responders as well as a good knowledge about the challenges that are need to drive the society through a resilient response against crisis situations.

Secondly, PCF will get involved in the coordination and engagement of Associated Experts and project participants through the e-FIRE-IN platform (Work Package 4). PCF has been developing similar tasks in other European projects and will contribute by providing a useful support to engage participants while promoting knowledge capitalization and sustainability of the project. Thirdly, PCF will provide their expertise about dissemination of project outputs through the channels suggested in Work Package 4 as well as through their already existing channels.

9	CFS	Type	Website	Spain
<b>Organisation Description</b>				
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1; text-align: center;">  <p><b>Generalitat de Catalunya</b></p> </div> <div style="flex: 4;"> <p>The <b>Generalitat de Catalunya</b> is the institutional system in which the self-government of Catalonia is organized. It consists of the Parliament, the Presidency of the Generalitat, the Government and the institutions, the Council for Statutory Guarantees, the Ombudsman, the Public Audit Office and the Catalonia Broadcasting Council. The municipalities, regions and other local organizations determined by the law also constitute the institutional system of the Generalitat, through which the Generalitat is organized territorially, notwithstanding their autonomy. The power of the Generalitat comes from the people of Catalonia and is exercised according to what is laid down in this Statute and the Constitution.</p> <p>The Generalitat is structured in different Ministries. The one that will be more involved in the LIFE Montserrat project is the Ministry of Home Affairs. The Ministry is divided in different departments and has different areas, one of which is the Fire and Rescue Service.</p> <p>The Catalan Fire and Rescue Service (Bombers) with over 5.000 firefighters, 161 park stations structured in seven regions, is the responsible body of managing emergencies in Catalonia. The Catalan Fire and Rescue Service commands the response to Fire and Rescue emergencies. It is an active participant in all phases of the emergency: from promoting research to prevention, planning and mitigation, etc.</p> </div> </div>				
<b>Profile(s) of expert(s) involved</b>				
<p><b>Albert Vilanova</b> (male) is the sub-director of General Operations. As such he is the Catalan Fire and Rescue Service main technical commandment, and type 3 incident commandments. He is an architect, and has been in the Fire Service over 30 years. During these years, he has been the Director of the School of the Fire Service, the Chief of the Prevention Service or the Chief of the Planning Division.</p> <p><b>Marc Castellnou</b> (male) is an ‘inspector’ in the Catalan fire service, a type 2 incident commander and</p>				

the chief fire analyst of the service for over 16 years. He is the chief of the GRAF team, and has promoted a lessons learned-based concept in the fire service, promoting training and sharing reports on individual fires and fire seasons and the exchange of personnel and ideas. Marc is also the president of Pau Costa Foundation, which is thought as platform for capitalizing on knowledge and experience gathered by specialists in fire ecology and management and sharing it with others at national and international level. Marc has experience in managing fire in Catalonia, USA, Portugal, France, Scotland, England... He has a degree in forest engineer and a degree in agriculture.

**Marta Miralles** (female) is sub-inspector in the Catalan fire service. She is an Type 2 incident commander, and has been a forest fire analyst for 14 years, and is the responsible of research and development in the forestry area of the firefighters.

**Edgar Nebot** (male) is sub-inspector in the Catalan fire service. He is an incident commander, and has been a forest fire analyst for 10 years, and is the responsible of agreements and exchanges in the Catalan Fire Department. He has a degree in forest engineer and a degree in agriculture.

#### List of relevant publications, and/or products, services

- Costa, P; Castellnou, M; Larrañaga, A; Miralles, M; Kraus, D. 2011. Prevention of Large Wildfires using the Fire Type concept. EU Fire Paradox Publication Barcelona, 83 pp. [http://blocs.gencat.cat/blocs/AppPHP/loforestalillo/files/2011/10/Guia\\_Paradox\\_ENG\\_compr.pdf](http://blocs.gencat.cat/blocs/AppPHP/loforestalillo/files/2011/10/Guia_Paradox_ENG_compr.pdf)
- Miralles, M; Kraus, D; Molina, D; Loureiro, C; Delogu, G; Ribet, N; Vilalta, O. 2010. Improving Suppression Fire Capacity. Toward Integrated Fire Management - Outcomes of the European Project Fire Paradox. Ed. JS Silva, F Rego, P Fernandes and E Rigolot. European Forest Institute Research Report 23. [http://www.efi.int/files/attachments/publications/efi\\_rr23.pdf](http://www.efi.int/files/attachments/publications/efi_rr23.pdf)

#### Relevant projects/ activities

- FIREPARADOX (2006-2009): <http://www.fireparadox.org/> The Fire Paradox was a European project originated in the 6th Development Research European program. It was inaugurated in March 2006, and brought together 36 partners from 16 countries for 48 months. The project's objective was to create a scientific and technical basis in order to define which new practices and integrated management policies would ensure Europe's ability to prevent and fight fires most effectively. The project offered a departure away from the usual strategy of managing fires, based on the modern uses of prescribed burning application and traditional fire-use. The project presented a balanced approach to the management of non-afforested and afforested land, as well as the management of undesired fires in general.
- INTERREG SUDOE Brulage Dirigie (2007-2008): <http://www.interreg-sudoe.eu/ESP> The BDINTERSOE was a European project, an INTERREG SUDOE project. Its objective was to exchange knowledge and practices among regions, sharing lessons and practices about prescribed burning.
- SGL FOR USAR (2007-2013) SGL for USaR (Second Generation Locator for Urban Search and Rescue Operations) was mission oriented towards solving critical problems following large scale collapses in urban locations. The devotion, courage and expertise of rescuers needed to be matched by procedures and technology that would enable safe and effective responses. This Integrated Project combined chemical and physical sensors integration with the development of an open ICT platform for addressing mobility and time-critical requirements of USaR Operations. The project focused also on medical issues and on the relevant ethical dilemmas.
- FIREfficient (2014-2015) <http://fireefficient.ctfc.cat/> The FIREfficient project (Operational tools for improving efficiency in wildfire risk reduction in EU landscapes) aims to establish a sustainable platform for efficient exchange of available knowledge in which "lessons-learned" can be made available to relevant stakeholders and public agencies at EU level, dealing with innovative

operational tools and means to integrate the prediction of potential fire events into emergency strategies and land-use planning. During the project the online platform Lessonsonfire.eu has been developed in order to gather knowledge and foster networking among wildfire experts. Through this project, PCF has gained experience on online platform management and expert knowledge management that can be highly useful for the present FIRE-IN project.


- LIFE Montserrat (2014-2018): <http://lifemontserrat.eu/> LIFE Montserrat project is located in Montserrat Mountain and its surroundings (province of Barcelona). The project area extends to 32.000 ha and it is mainly forested (64%). The main objectives of the project were: The development of ecosystem-based measures to increase resilience and stability of forests against fires in order to improve the prevention of wildfires in the Montserrat Mountain and surroundings. The contribution to biodiversity conservation and improvement in the Montserrat area, and Biodiversity conservation by increasing connectivity through the creation of a mosaic of scrub, natural grasslands and forests that will link two Natura 2000 sites (Montserrat-Roques Blanques-Riu Llobregat and Sant Llorenç del Munt i l'Obac).
- LIFE Pinassa ((2015/2018): <http://lifepinassa.eu/?lang=ca> The main objective of LIFE + Pinassa is to improve conservation of black pine forests (*Pinus nigra*) in Catalonia (habitat 9530 \* (Southern) Mediterranean Pine stands of endemic *Pinus nigra*).

#### Significant infrastructure and major items of technical equipment relevant to the proposed work

Over 50 fire stations, headquarters, as well as official vehicles. Also the Training Center in Mollet del Vallès.

#### Contribution to the project

The **Generalitat de Catalunya** is involved in FIRE-IN as **practitioner organisations** providing direct first response. It will lead the WP1 **Practitioners identification of capability challenges as regards innovations**, and the Task 1.2. - Organisation and execution of TWGs for definition of medium terms challenges, including application of network typology and the Task 1.3 - Organisation and execution of TWGs for definition of long terms challenges, including application of network typology (1 cycle: 3<sup>rd</sup> cycle). In WP1, it will notably contribute to the TWGs' work by coordinating the overall work of the TWGs and **leading TWG A, Search and Rescue (SAR) and Emergency Medical Response (EMR)**.

10	CNBOP	Type	Website	Poland
<b>Organisation Description</b>				
<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p><b>CNBOP-PIB</b> is a research institute of the State Fire Service of Poland. The Institute is a research centre with a 43 years of experience. Mission of CNBOP-PIB is activity in relation to ensuring general safety in the field of fire protection, civil protection and crisis management. Institute is also involved in projects related to innovative solutions in the field of fire and civil protection through a variety of their own research as well as research projects.</p> <p>Moreover CNBOP-PIB conducts and provides:</p> <ul style="list-style-type: none"> <li>• tests of products used for fire protection</li> <li>• technical approvals</li> <li>• certification of products used for fire protection</li> </ul> </div> </div>				

- research on fire protection and personal safety
- research on equipment and the agents used by firefighting units
- technical analysis of fire protection systems
- opinions and technical analyses within the above-mentioned areas
- analyses of the causes and factors behind the spread of fires
- processes of burning and explosions
- educational initiatives for common and personal safety
- publishing activities

Scientific and Research Centre for Fire Protection - National Research Institute (CNBOP-PIB) is the only one of this type of research institution in Poland. CNBOP-PIB has 4 fully equipped complexes of laboratories:

- Laboratory of Technical Equipment for Fire Service and Technical Fire Protection (BS);
- Combustion Processes and Explosions Laboratory (BW);
- Laboratory of Fire Extinguishing Agents and Equipment (BU);
- Laboratory of Fire Signalling and Fire Automation (BA);

Moreover the Institute includes Technical Approval Department (DA) and Certification Department (DC). Apart the standard activity in CE marking, national B marking and certification of admittance, last year Certification Department obtained the accreditation granted by United Arab Emirates Ministry of Interior Civil Defence G.H.Q, which allows CNBOP-PIB to carry out voluntary conformity assessment of construction products for the UAE market.

#### Profile(s) of expert(s) involved

**Bryg. Dariusz Wróblewski** PhD Eng. (male) – Director in Scientific and Research Centre for Fire Protection – National Research Institute (CNBOP-PIB), officer of the State Fire Service. PhD (2001) in field of Military Science with a specialization in national security at the Department of Strategy and Defense in the National Defense Academy in Warsaw. Title of PhD thesis: "Model of cooperation of State Fire Service units with civil defense units in terms of rescue operations". Completed trainings for senior managers, as well as courses for executives and State Fire Service and public administration. He has experience in more than 40 scientific and research projects. Currently member of a team in the project "EmerGent" (FP7). The author and co-author more than 90 publications, monographs and articles in professional and scientific journals publications in the field of crisis management. Speaker at national and international conferences, as well as a lecturer at exercises, workshops and training sessions.

**Sylwia Krawczyńska**, M.Sc. (female) – Deputy Director for Research and Development in Scientific and Research Centre for Fire Protection – National Research Institute (CNBOP-PIB), academic teacher in The Main School of Fire Service (SGSP), a graduate of the Faculty of Mathematics, Informatics and Mechanics of University of Warsaw, doctoral studies in Collegium of Economic Analysis of Warsaw School of Economics, post-graduate studies Management in the United Threats in SGSP and Modern Methods of Strategic Management at the School of Management and Law and The School of Business Trainers. Since 2002, she is related to the environment of firefighting and fire protection. The author of 13 publications in the field of mathematical modeling and economic analysis in the field of safety engineering, safety education and human resource management in the uniformed services. She has experience in the field of research projects on national and international level (FP5, FP6, FP7, Erasmus +).

**Grzegorz Wenarski, M.A.** (male) – Senior Specialist in Project and Research Support Office in

Scientific and Research Centre for Fire Protection – National Research Institute (CNBOP-PIB), responsible for European research projects and international cooperation. MA (2006) in Humanities. Currently finished doctoral studies in Political Studies in Maria Curie-Skłodowska University in Lublin. Author of publications and speaker at the conferences in the field of public administration, cross-sectoral cooperation and crisis management. He has experience in numerous national and international European projects. CNBOP-PIB manager of the “EmerGent: Emergency Management in Social Media Generation” project (FP7).

#### List of relevant publications, and/or products, services

##### Publications

- Wróblewski, D. (red.), Crisis Management – Selected Results of Research and Development, CNBOP-PIB, Józefów 2015.
- Wróblewski, D., (red.), Formal and Legal Recommendations in the Field of Crisis Management, CNBOP-PIB, Józefów 2015.
- D. Wróblewski, M. Kędzierska, B. Połec, Analysis of the Emergency Management Legal Basis and Cognitive – Methodological Basis of the Emergency Management System, BiTP Vol. 33 Issue 1, 2014, pp. 29-36.
- M. Kędzierska, A. Banulska, E. Sobór, Emergency Management in Communes and Districts – Facts and Expectations According to Survey Research Results, BiTP Vol. 33 Issue 1, 2014, pp. 129-143.
- D. Riegert, Temporary Flood Protection Measures, BiTP Vol. 35 Issue 3, 2014, pp. 139-147.

##### Services:

- Training courses - CNBOP-PIB organises events related to fire protection, crisis management and civil protection. It has been organising training courses, seminars, workshops and conferences for many years. The aim of the training courses is the increase of professional qualifications and promotion of knowledge significant for public safety. Among the lecturers are many outstanding experts, both practitioners and theoreticians.
- European certification of constancy of performance of construction products - CNBOP-PIB carries out assessment and verification of the constancy of performance of construction products according to system, which is necessary for the manufacturer to issue a declaration of performance and to mark construction products with CE marking.
- Innovative Products Testing - Innovative products tested in practice by firefighters before their introduction for use: Products improved by manufacturers after practical comments from users (firefighters) ; Products that meet users' requirements ; Innovative products with a document from CNBOP-PIB – products database.

#### Relevant projects/ activities

- **Methodology of risk assessment for Polish crisis management system**, Financed by the National Centre for Research and Development, 2012-2015;
- **Optimization of procedures, dislocation of bases and improvement of technical solutions of equipment** used by the Polish emergency services in dealing with natural hazards with a particular focus on floods - Financed by the National Centre for Research and Development, 2011-2014;
- **Integrated system of developing crisis management plans based on modern ICT solutions** - Financed by the National Centre for Research and Development, 2012-2015;
- **Modern individual protections** The National Firefighting and Rescue System services on a basis of end-users's needs- Financed by the National Centre for Research and Development, 2011-2014;


- **EmerGent, Emergency Management in Social Media Generation**, FP7, 2014-2017 (continuing), <http://www.fp7-emergent.eu>.

#### Significant infrastructure and major items of technical equipment relevant to the proposed work

- **Laboratory of Fire Alarm Systems and Fire Automation** - The Research Services are performed by highly specialised personnel in constantly modernised and retrofitted research infrastructure. Meeting the technical requirements of continuously developing market, both on the technological and methodological levels, requires constant updating or modification of the used research methods according to the newest versions of standards. The important element of these activities is continuous technical development, the main part of which is implementation of technologically advanced controlling and measuring devices, thus improving the laboratory tests precision.
- **Laboratory of Fire Extinguishing Agents and Equipment** - The tasks performed by the Laboratory are related to the broad spectrum of fire protection issues. Research and development tasks performed by the experienced personnel are the basis of performing research and development projects and to offer our clients drawing up of procedures and performing tests aimed at receiving certificates of admittance, certification or technical approvals.
- **Laboratory of Technical Equipment for Fire Service and Technical Fire Protection** - Laboratory performs qualification tests for the needs of certification and admittance proceedings as well as tests for voluntary certification and issuing technical opinions. Qualification tests for admittance proceedings are performed mainly with reference to the products intended for use by Fire Service personnel and to products used by these units for rescue and extinguishing activities.
- **Laboratory of Combustion Processes and Explosions** - Laboratory performs analyses of fire parameters of construction materials and parameters of explosiveness of chosen flammable substances as well as thermodynamic analyses of combustion and explosion processes and the spread of fire in rooms and buildings.
- Laboratory performs individual experimental works (including development and goal-oriented projects) related to the processes of combustion and explosion and prepares documentation of preventing severe industrial accidents (SEVESO).

#### Contribution to the project

CNBOP is involved in FIRE-IN as an organisation providing **specific service** (knowledge, information) to practitioner organisations dealing Fire & Rescue and Civil Protection, and for its expertise as international testing and certification centre. It is involved in the WP2 **Standardisation and RDI screening and identification of the potential and relevant implementations** and the WP3 **Collaboration with research, industry and standardization bodies and recommendations** especially.

1 1	SGSP	Type	Website	Poland
<b>Organisation Description</b>				
		<p><b>The Main School of Fire Service (MSFS)</b> is an academic facility of state services subordinate to the Minister of Internal Affairs. It educates the firefighters of the State Fire Service, officers of other services and guards, subordinate to the Minister of the Internal Affairs. MSFS also trains civilians.</p>		

At the same time MSFS also enjoys the status of organisational unit of the State Fire Service operating on the basis of the Act on the State Fire Service of 24 August 1991.

According to the Act on the State Fire Service, the School provides cadet officers with the opportunity to serve as trainees in the School Rescue and Firefighting Unit.

The School's mission is to train the most highly qualified staff in the following areas: natural disasters and social threats assessment, as well as life, health, property, and other values protection against those hazards. MSFS also aims at focusing on patriotic values, dedication to public service and respect for discipline in work and duties.

MSFS's scientific and academic activity is carried out at two faculties: The Faculty of Fire Safety Engineering and Faculty of Civil Safety Engineering. MSFS graduates receive the title of the Safety Engineer in fire safety and civil safety.

Full time studies as well as extramural studies have the same curriculum compliant with the safety engineering academic standards approved by the Minister of Science and Higher Education. Moreover, those wishing to advance their professional knowledge can take the postgraduate studies and specialized courses. Educational process is carried out by a highly qualified scientific staff with degrees and titles in technical sciences, and many other disciplines, as well as by specialized command and educational staff.

MSFS graduate's attractiveness on the job market is further increased by his or her excellent foreign language abilities. The interdisciplinary nature of the School, together with a well-adapted foreign languages curriculum, allows our students to gain expertise in specialist vocabulary during compulsory or optional language courses.

The School possesses a modern educational base, equipped with the latest research and scientific apparatus, computer hardware and audiovisual tools, which in many cases are unique on a national scale. The School is also proud to offer a container-based smoke chamber for training purposes, modern study rooms and specialist laboratories.

#### Profile(s) of expert(s) involved

**Piotr Tofilo** – PhD (Man): fire officer, researcher and lecturer at the Main School of Fire Service in Warsaw. He is also the president of the European Chapter Coordination Group of the Society of Fire Protection Engineers (SFPE) and President of the Polish SFPE Chapter. He has a PhD in the area of behaviour of glazing in fires from the University of Ulster (FireSERT) in the UK. He has also worked as a Senior Fire engineer at Ramboll in the UK for 3 years. In 2012 he was a guest researcher at National Institute of Standards and Technology in Washington (USA)

**Rafał Porowski** – PhD (Man): fire officer, researcher and lecturer at the Main School of Fire Service in Warsaw, 2012 - 2013 Post graduate study on Nuclear Energy Engineering at Warsaw University of Technology, Poland 2009 – 2010 Fulbright Scholarship in Graduate Aeronautical Laboratories at California Institute of Technology, Explosion Dynamics Lab under supervision of Professor Joseph Shepherd, Pasadena, CA, USA 2007 - 2008 Post graduate study on Hydrogen Safety Engineering at University of Ulster, Belfast, Northern Ireland, UK 2006 - 2012 Ph.D. at Warsaw University of Technology – Institute of Heat Engineering, subject of doctorate thesis concerns experimental study of DDT and detonation in hydrogen/methane/air mixtures and explosion protection

**Szymon Ptak** – PhD (Man): fire officer, researcher and lecturer at the Main School of Fire Service in Warsaw, main area of expertise: Electrical Fire Safety, PhD in explosion hazards related to combined combustion of biomass and coal, 2010-2013 Postgraduate studies in Mining Institute w Katowice, "Technical Safety in Spaces with Explosion Hazard",

#### List of relevant publications, and/or products, services

Ćłapa, I., Cisek, M., Tofiło, P. & Dziubiński, M. (2015) Firefighters ascending and evacuation speeds during counter flow on staircase, *Safety Science*, vol. 78, 35-40.

Tofiło, P. & Delichatsios, M.A. (2010) Thermally Induced Stresses in Glazing Systems, *Journal of Fire Protection Engineering*, 20(2), 101-116.

Ping Lee, Y., Tofiło, P., & Delichatsios, M.A. (2009) A new correlation for the gas inside a burning enclosure. *Fire Safety Journal*, 44 (8), 1003-1009.

Tofiło, P., Konecki, M., Galaj, J., Jaskolowski, W., Tuśnio, N., Cisek, M. (2013) Expert System for Building Fire Safety Analysis and Risk Assessment, Elsevier, *Procedia Engineering*, Volume 57, 1156–1165.

Mozer, V., Wilkinson, P., Smolka, M., & Tofiło, P. (2009) Probabilistic-deterministic modelling of fire spread, *European Journal of Environmental and Safety Sciences*, 2(2), 79-83.

Półka M., Ptak S., Analysis of Wood-based dusts explosion characteristics, *Annals of Warsaw University of Life Sciences – SGGW, Forestry and Wood Technology* nr 81/2013, s. 180 - 184

Rudy W., Kuznetsov M., Porowski R., Teodorczyk A., Grune J., Sempert K., Critical conditions of hydrogen-air detonation in partially confined geometry, *Proceedings of the Combustion Institute*, 34, 2013

Porowski R., Teodorczyk A., Experimental study on DDT for hydrogen-methane-air mixtures in tube with obstacles, *Journal of Loss Prevention in the Process Industries*, 26, 2013; • Porowski R., Teodorczyk A., Cellular structure of detonation wave in hydrogen-methane-air mixtures, *Journal of Power Technologies* 91 (3), 2011

Rudy W., Porowski R., Teodorczyk A., Propagation of hydrogen-air detonation in tube with obstacles, *Journal of Power Technologies*, 91 (3), 2011;

### Relevant projects/ activities

#### Selected international projects:

PRACTICE – “Preparedness and Resilience against CBRN Terrorism using Integrated Concepts and Equipment”, 7th Framework Program

EUSBSR 14.3 – European Union Strategy for the Baltic Sea Region on Macroeconomic Risk Scenarios and Gaps Identification, January 2012 – June 2013 r., Financing: The European Commission, Financial Instrument Civil Protection EU

ELITE: Elicit to learn crucial post – crisis lessons, 2013 – 2014 r., 7th Framework Programme of the EU in the area of security

EDEN - End User Driven demo for CBRNe, Tests and exercises CBRN determined by the needs of participants in the process of crisis management

GECCO: space-derived geoinformation for crisis management and coordination, September 2013 – April 2015 r., Financing The European Space Agency (ESA)

DESTRIERO: A decision support tool for reconstruction and recovery and for the interoperability of international relief units in case of complex crises situations, including CBRN contamination risks, September 2013 – April 2016 r., 7th Framework Programme of the EU

SNOWBALL - Lower the impact of aggravating factors in crisis situations thanks to adaptive foresight and decision-support tools., March 2014 - March 2017, 7th Framework Programme of the EU

SECTOR, Secure European Common Information Space For The Interoperability Of First Responders

And Police Authorities, January 2014 - June 2017., 7th Framework Programme of the EU

BeSeCu - "Human Behaviour in crisis situations: A cross-cultural investigation in order to tailor security related communication", 7th Framework Programme of the EU

**Selected national research projects (National Research Center - NCBiR)**

- Modern engineering tools for supporting decisions of commanding officers during rescue operations within buildings
- Improvement in building fire safety during design and construction (web platform for fire practitioners)
- Integrated simulation platform for crisis management stakeholders

**Significant infrastructure and major items of technical equipment relevant to the proposed work**

N/A

**Contribution to the project**

Researchers at SGSP will contribute with their knowledge and experience related to first responder tactics and fire science.

Defining the needs and requirements of practitioners as regards innovation in the areas of:

- Urban firefighting, forest fires;
- building fire protection;
- explosions, protection;
- chemical and ecological rescue;
- CBRN.

RDI screening on that domains

- Technology RDI Screening
- Dissemination and Communication

1 2	CBSS	Type	Website	Sweden
<b>Organisation Description</b>				
		<p><b>The Council of the Baltic Sea States (CBSS)</b> is an overall political forum for regional inter-governmental cooperation. The full Members of the Council are the eleven states of the Baltic Sea Region as well as the European Commission. The states are Denmark, Estonia, Finland, Germany, Iceland, Latvia, Lithuania, Norway, Poland, Russia, and Sweden.</p> <p>The Council consists of the Ministers for Foreign Affairs from each Member State and a member of the European Commission (though today represented by the EEAS). The Presidency of the Council rotates among the Member States on an annual basis. The role of the Council is to serve as a forum for guidance and overall coordination among the participating states. The foreign minister of the presiding country is responsible for coordinating the Council's activities and is assisted in this work by the Committee of Senior Officials (CSO). The CSO and the CBSS Secretariat organise every second year the summit of the Heads of Governments and every second year a</p>		

foreign ministerial Council meeting.

Beside political-level activities, the CBSS is active on expert levels, usually gathering together networks and expert groups of competent authorities. There are currently more than two dozens of such networks. Furthermore, the CBSS cooperates with its 16 Strategic Partners and its 10 Observer States.

Since 1998, the CBSS Member States have financed jointly the CBSS Secretariat, located in Stockholm and being under Swedish jurisdiction, and regulated by a host country agreement.

The CBSS Secretariat, headed by General Director, is legally the applicant in the role of Coordinating Beneficiary of the current application. The Secretariat does not have a general budget for project purposes. Member States are responsible for funding the Secretariat's common activities and the Secretariat is encouraged to seek and coordinate financing from other sources for project purposes.

Safe & Secure Region is one of the three renewed long-term priorities of the CBSS and is supported by several specialized CBSS-related networks and structures. Since 2002 the Civil Protection Network convene annually at the level of Directors-General to exchange views on ongoing activities and to coordinate joint measures in the field of civil protection, critical infrastructure protection and other emergency preparedness issues in the Baltic Sea Region. Additionally the network meets annually at senior expert level and on ad hoc basis in different constellations in order to discuss particular issues or prepare joint projects. The network's chairmanship follows the CBSS Presidency rotation. CBSS Secretariat is also co-coordinator of Policy Area Secure in the European Strategy for the Baltic Sea Region (EUSBSR). Under the new structure of the new EUSBSR Action Plan, which was adopted 16 June 2015, Policy Area Secure now includes additional elements of the former Priority Area Crime and supports more than ten flagships. The merge of the two priority areas now allows the Policy Area Secure to act in the societal security paradigm that covers prevention, preparedness, response to all sorts of threats, regardless whether their origins are natural disasters, made-man disasters and organised crime. This new PA Secure framework enables a comprehensive and coherent approach to reduce trans-boundary vulnerabilities and to build common capacities for societal security in the Baltic Sea Region.

A well-developed cooperation exists in most fields of law enforcement, including cross-border crime-related networks of police, border guard, prosecutors and tax administrations. In addition to in-sector cooperation, these law enforcement sectors often cooperate cross-sectorially, thus bringing added value for our regional cooperation.

One of the most concrete civil security cooperation fields is nuclear safety, taking place in the framework of the CBSS Expert Group on Nuclear and Radiation Safety. There is also a civil protection network, based on cooperation between national rescue and crisis management authorities. These different structures and networks have defined the level, degree and nature of cooperation and activities quite differently, starting from their own concrete needs and avoidance of duplication with and within other multilateral institutions.

#### Profile(s) of expert(s) involved

**Janusz Gąciarz** (male). He is in charge of the Policy Area Secure team at CBSS. Before joining the CBSS as Senior Adviser for Civil Security, Janusz Gąciarz worked as General Counselor in the Ministry of Interior and Administration and in the Ministry of Foreign Affairs of the Republic of Poland. He participated in the preparation for Poland's accession into the Schengen zone and all negotiations related to further Schengen enlargement. In the last decade, he took part in several international technical assistance programmes for Croatia, Moldova, Serbia and Ukraine, dedicated to building capacities for European integration. In 2013 he participated in the development of the Multiannual Programme for Rescue and Civil Protection in Poland, which had been endorsed by Poland's Council of Ministers in 2014.

**Jacek Paszkowski** (male) holds the position of Adviser in Policy Area Secure at CBSS. He has a broad experience of capacity building and project development in the EUSBSR context since the early days of the strategy. He is also the Flagship Leader of the Baltic Leadership Programme in Civil Protection under PA Secure. Previously he has worked as Horizontal Action Coordinator for HA Capacity at the Swedish Institute. Jacek has subsequently worked on linking processes that create coherent approaches to networking and cooperation, whilst engaging relevant stakeholders from all levels of governance.

#### List of relevant publications, and/or products, services

- “Being Secure in the Baltic Sea Region – a handbook of a policy area”

#### Relevant projects/ activities

- **14.3** is a flagship project under the EUSBSR that ran for a period of 18 months from January 2012 and addressed civil security and civil protection in the Baltic Sea region. The project covered wide-ranging aspects of civil security and civil protection, including both manmade and natural disasters. The 14.3 project developed scenarios and identified gaps for all main hazards of the Baltic Sea Region, including winter storms and floods. Such an objective was chosen in order to anticipate potential disasters, and thus enabling a rapid and effective EU response through the Community Civil Protection Mechanism. In addition, and drawing on existing possibilities for funding in the Civil Protection Financial Instrument, it aimed at strengthen training activities and exercises in cooperation with the countries of the Baltic Sea Region. The project had four main task areas:
  - Macro-Regional Risk Scenario/Hazard and Gap Analysis
  - Floods Prevention in Macro-Regional Context
  - Forest Fire Prevention in Macro-Regional Context
  - Nuclear Safety Risk Scenarios and Gaps in Macro-Regional Context

**Leadpartner:** CBSS Secretariat in partnership with 10 countries and 12 partners. The project was financed with support from the European Commission through the EU Civil Protection Financial Instrument, and with support from the Swedish Institute and other partners.

- **The Baltic Leadership Programme in Civil Protection** aims to strengthen international cooperation and increase capacity for implementing stakeholders by building a strong network of dynamic leaders in the Baltic Sea Region. In its effort to connect decision makers who work in the area of civil security, the programme seeks to create elements of common security culture, inter alia by establishing a transnational team of experts. Three Programmes have taken place so far, including both, professionals working on the project-level on the one hand (BLP for Project Leaders, December 2012 in Stockholm and February 2013 in Brussels) and professionals in leading, strategic positions on the other (BLP for Future Decision makers, December 2014 in Tallinn and November 2016 in Warsaw). The Baltic Leadership Programme is financed by the Swedish Institute and organised in partnership with Swedish Defense College (SEDU), Swedish Civil Contingencies Agency (MSB) and CBSS, the latter in their capacity as Policy Area Coordinators for PA Secure. The next round of the Baltic Leadership Programme is planned towards the end of 2015 or early 2016.

**Leadpartner (Current):** CBSS Secretariat

- **From Gaps To Caps** - In January 2015 the project Risk Management Capability Based on Gaps Identification in the BSR, in brief: From Gaps to Caps, started as a follow-up project of 14.3. Under the coordination of the Fire and Rescue Department under the Ministry of the Interior of the Republic of Lithuania (TASK A Leader), FROM GAPS TO CAPS will further contribute to macro-

regional capacities for risk assessment and to establishing efficient crisis management schemes to cope with natural and man-made disasters in the BSR. FROM GAPS TO CAPS, co-financed by DG ECHO is a twenty-four month flagship project under the EU Strategy for the Baltic Sea Region (EUSBSR). The project is further split into three more tasks, B, C and D. Task B is dedicated to the publicity of the project and will be conducted by the CBSS Secretariat. Task C, led by the University of Iceland, deals with Risk Management Capability Assessment Methodology and Task D consists of the Comparison of Evaluations of Emergencies and Exercises, and lies with the responsibility of the Hamburg Fire & Rescue Service.


**Leadpartner:** Fire and Rescue Department under the Ministry of the Interior of the Republic of Lithuania

#### Significant infrastructure and major items of technical equipment relevant to the proposed work

N/A

#### Contribution to the project

CBSS is involved in FIRE-IN as a **practitioner association** gathering practitioners or practitioner organisations in Fire & Rescue and Civil Protection. CBSS will take the lead on the dissemination and communication activities of the project, being the lead partner for Task 4.3 **Communication, Dissemination Strategy & tool** and responsible for the deliverable 4.3 Dissemination and Communication Strategy and Plan and 4.4 Mid-term and final report on the Dissemination activities of the project. It is also involved in the WP1 and WP2.

1 3	MSB	Type	Website	Sweden
Organisation Description				
 <p>Swedish Civil Contingencies Agency</p>		<p>The <b>MSB</b> is a central agency responsible for issues concerning civil protection, public safety, emergency management and civil defense as long as no other authority has responsibility. Responsibility refers to measures taken before, during and after an emergency or crisis.</p> <ul style="list-style-type: none"><li>• Our main commitments include knowledge enhancement, support , training, exercise, regulation, supervision and our own operations.</li><li>• engagements in close cooperation with the municipalities, county councils, other authorities, the private sector and various organizations.</li><li>• commitments towards greater security and safety at all societal levels, from the local to the global arena.</li></ul> <p>The Swedish Government steers the MSB via legal instructions and an annual appropriation specifies the objectives and reporting requirements, as well as the resources allocated for the MSB administration. MSB supports the local rescue service development</p>		
Profile(s) of expert(s) involved				
<p><b>Mrs. Eleonor Storm</b> (female) is a fire protection engineer who is currently working at the Swedish Civil Contingencies Agency (MSB) with issues concerning development of methods and technologies</p>				

in order to assist the local emergency services to perform safe and efficient rescue operations. Mrs. Storm has held a position with the MSB since 2008, at which her work tasks have been focusing on supervisory issues. From 1995 to 2008 her main engagements has concerned fire prevention issues, first at the Swedish Rescue Service Agency (Räddningsverket) and later at the emergency service in Gothenburg, where she also has held the position as head of the prevention unit.

**Håkan Axelsson** (male) is a fire engineer and working with strategic challenges at Swedish Civil Contingencies Agency (MSB). Mr Axelsson has worked at MSB since 2004 and have been most involved in the development of methods and technologies for efficient rescue operations. He has extensive experience working with organization and development of emergency service in Sweden through his work both at MSB as in different municipal rescue service as fire engineer, deputy fire chief, fire chief and manager. Håkan has lots of experience of operational rescue operations, some of them large or complex, with different type of “cascade effects”. Mr Axelsson has a Bachelor of Science, Fire Engineering.

#### List of relevant publications, and/or products, services

Sweden is an active partner in activities during 2005-2015 in work with the Hyogo Framework for Action (HFA) 2005–2015. The MSB is national focal point for Sweden’s national commitments

- Activity report 2013, Sweden’s national platform for disaster risk reduction
- <https://www.msb.se/en/Products/Publications/Publications-from-the-MSB/Activity-report-2013-Swedens-national-platform-for-disaster-risk-reduction/>
- Annual report 2012, Swedish national platform for disaster risk reduction
- <https://www.msb.se/en/Products/Publications/Publications-from-the-MSB/Annual-report-2012-Swedish-national-platform-for-disaster-risk-reduction/>
- Dealing with natural disasters, the purpose of which is to increase societal capabilities for preventing and dealing with the negative consequences of natural events, known in everyday speech as natural disasters  
<https://www.msb.se/en/Products/Publications/Publications-from-the-MSB/Dealing-with-natural-disasters--Swedish-national-platform/>
- Response Guidelines for Landslides- Natural disasters related to mass movements, such as landslides, can be complex and, therefore, difficult to risk assess. The guidelines are intended as support for the analysis of risks and decision making during the emergency response operation.  
<https://www.msb.se/en/Products/Publications/Publications-from-the-MSB/Response-Guidelines-for-Landslides/>
- Emergency response to incidents involving Hazardous substances.  
<https://www.msb.se/en/Products/Publications/Publications-from-the-MSB/Emergency-response-to-incidents-involving-Hazardous-substances/>
- Research for a safer society, summary. The MSB’s orientation and funding of research has as its starting point society’s need for knowledge. Research must be relevant for the fields of public safety, civil protection and emergency preparedness and should be of a good scientific quality.  
<https://www.msb.se/en/Products/Publications/Publications-from-the-MSB/Research-for-a-safer-society---Summary/>
- The Nation's Preparedness - Hazardous Substances- The film provides a comprehensive insight into how Sweden's emergency preparedness organisation is structured to manage hazardous substances / CBRNE emergencies The film gives the viewer an idea of how local, regional and national authorities work; and in what ways we can deal with emergencies involving hazardous substances.  
<https://www.msb.se/en/Products/Publications/Publications-from-the-MSB/The-Nations->

### Preparedness---Hazardous-Substances-Emergencies/

The MSB have a large experience of international work within the developing countries. The work/publication describe different steps how to design capacity

- Designing Capacity Development for Disaster Risk Management  
<https://www.msb.se/en/Products/Publications/Publications-from-the-MSB/Designing-Capacity-Development-for-Disaster-Risk-Management/>

Relevant publications in swedish

- Liability in case of natural disaster-
- Measuring vulnerability to natural disasters
- Evaluation after forest fire in Västmanland in 2014, accounting for government assignments Ju2015 / 1400 / SSK
- Modeling of vegetation fires
- Mapping floods impact on vital societal functions

### **Relevant projects/ activities**

- The Baltic Leadership Programme in Civil Protection aims to strengthen international cooperation and increase capacity for implementing stakeholders by building a strong network of dynamic leaders in the Baltic Sea Region. The Baltic Leadership Programme is financed by the Swedish Institute and organised in partnership with Swedish Defense College (SEDU), Swedish Civil Contingencies Agency (MSB) and CBSS, the latter in their capacity as Policy Area Coordinators for PA Secure. The next round of the Baltic Leadership Programme is planned towards the end of 2015 or early 2016.
- DRIVER (2014-today): FP7 demo project, DRIVER aims to develop a portfolio of tools for crisis management solutions and organize European test-beds for solutions testing and experiment. MSB is in charge of managing the experiments and demonstration as one of the testbeds. MSB also coordinate the dissemination and networking activities. <http://www.driver-project.eu/>
- CascEff (2014-2018): FP7 SEC project, CascEff aim to improve our understanding of cascading effects in crisis situations through the identification of initiators, dependencies and key decision points. These will be developed in the methodological framework of an Incident Evolution Tool which will enable improved decision support, contributing to the reduction of collateral damages and other unfortunate consequences associated with large crises. MSB leads the WP Incident management. The principal aim of this work package is to develop a methodology for incident management which integrates predictions of an incidents evolution based on an improved understanding of cascading effects. The methodology will be developed on the basis of identified and elaborated scenarios, taking into account cascading effects and their effect on the evolution of scenarios.<http://casceff.eu/>
- International Forum to Advance FIRST RESPONDER INNOVATION- MSB is a part of this Forum. Two Committees have started, one that focus on Capability Gaps and one that focus on Research & Development. MSB participate in both Committees. <http://www.internationalresponderforum.org/>
- MSB have conducted several projects in Sweden as “EFFE” and “LOS” since 2012, on the following topics: incident commanding, cooperation and coordination in large scale events, after action review etc.


### **Significant infrastructure and major items of technical equipment relevant to the proposed work**

The proposed work would be supported with advanced and relevant installation. MSB is the owner of facilities in Revinge and Sando with significant indoor and outdoor installations, able to support various type of tests and different simulation related to fire and emergency services. Those facilities have also communication and IT infrastructure in order to organize and unfold multi scenarios table top simulation and practical training for a large number of trainees.

### Contribution to the project

MSB is the central authority and we have access to expertise, both within our own authority but also in our networks in most subject. We can describe the research and development needs for rescue services at national level. Together with other partners we can create the needs at European level. During the project we will develop our national process to catch gaps. Other partners can also take part of this work.

MSB will participate in WP1 and in some of the TWG.

1 4	KEMEA	Type	Website	Greece
<b>Organisation Description</b>				
 <p><b>The Center for Security Studies (KEMEA)</b> has been established as the Greek Ministry of Interior and Administrative Reconstruction (former Public Order &amp; Citizen Protection) think tank on security policies. KEMEA is a scientific, consulting and research agency, whose purpose is to conduct theoretical and applied research and to produce studies, particularly at a strategic level, on issues concerning security policies. KEMEA also provides advisory and consulting services to the Ministry of Citizen Protection &amp; Public Order and other Public and Private authorities on the same issues. KEMEA up to now is successfully participating in more than 60 Projects of the EC, ESA and of the National Resources. It has also represented the Greek Government to the European Research and Innovation Forum (ESRIF) of the European Commission and is a Member of the Board of Directors of the European Organization for Security (EOS). KEMEA has been appointed in 2011 (Presidential Decree No39/06.05.2011) as the “National Contact Point” for the protection of ECIs (“EPCIP contact point”) under the Directive 2008/114/EC of the Council of December 8th 2008 “regarding the definition and designation of the European Critical infrastructures and the assessment of the need to improve the protection of such infrastructures”.</p> <p>KEMEA currently employs many highly qualified and experienced researchers and Security experts including 25 active officers of the Hellenic Police and Fire Corps. These researchers and experts are specialized in various topics such as: Crisis Management, Emergency Response, GIS, Hazardous Materials, Information Security, Cyber Security, Information Systems, Telecommunications, Ad Hoc Networks, Civil Protection, Operational Readiness Exercises, Statistics, International Relations, Transportation Security and European Policy, etc. Furthermore regarding the capacity of KEMEA, under its constitutional law, can use staff and assets of the Greek Ministry of Public Order and Citizen Protection, if needed, in order to fulfil specific tasks of various projects; this corresponds to a staff pool of over 70,000 people being readily available.</p>				
<b>Profile(s) of expert(s) involved</b>				
<p><b>Dr. George Leventakis</b> (PhD - MBA - MSc.) (male) is a Senior Advisor in European Programmes, Previous member to the BoD of European Organization for Security (EOS) and member to the European Research and Innovation Forum (ESRIF). He is a qualified Security Expert, holds a PhD in the area of Risk Assessment Modelling in Critical Infrastructure Protection and an MBA and a MSc. in</p>				

Risk Management. He has 18 years of experience in Security Management. His key professional experiences include, Civil Protection / Homeland Security technology & operations, Expert Security Systems including Command & Decision Support, physical security, command centre systems & port security systems across two Organising Committees of Olympic Games for a period of 6 years (SYDNEY 2000 and ATHENS 2004), five years in the Ministry Of Public Order and five years teaching experience at the Hellenic Air Force Academy (Ministry of Defence). Since 2006 he is responsible (technical coordinator) for KEMEA'S participation in the various European Funding Programmes of the European Commission.

**Mr. George Eftychidis** (male) is a Research Associate in the European Programmes Department of KEMEA. He obtained a University degree in Forestry and Environmental Protection from the Aristotelian University of Thessaloniki (Greece) in 1987. He has worked for years in the private ICT sector in public and private contracts dealing with security, environmental and civil protection applications. Furthermore, he has participated in several European and National R&D projects and he cooperated with EC services as a reviewer and expert in policy making missions. His R&D topics of interest refer to modelling and simulating natural hazards and assessing related risks, using information technology. He contributed to the implementation of GIS and web applications for assessing forest fire behavior, propagation rate and growth patterns using properly developed simulation tools. Such tools are currently used operationally by public services in EU countries. He contributed also to the development of forest fuel and risk analysis maps at the local, regional, national and EU scale. During the last decades he gained an extensive experience in managing and coordinating national and European R&D projects. Furthermore, he cooperated with several public organizations in EU regarding the analysis of needs and requirements of end users in security, civil protection and environmental safety issues and he contributed to disseminate results of research projects to the respective community. Currently, he is an associate researcher at the Center for Security Studies (KEMEA) of the Hellenic Ministry of Civil Protection.


**Ret. Fire Colonel Lampros Georgaklis** served in the Hellenic Fire Corps (H.F.C.) since 1995 as a general duty officer in several regional and central Services. He is graduated from the Chemical Engineering Dept of the University of Patras. Prior to Fire Service he worked as a sales engineer in the private sector in the field of chemical additives and measuring instruments for water and wastewater treatment, as well as a safety engineer in a company producing technical gases. With the H.F.C. he specialized in chemical incidents management and worked as national expert in missions concerning the Seveso directive, while he worked for a number of years as a duty officer in the National Coordination and Operation Center of the Hellenic Fire Brigade (H.F.C.). During the Athens Olympic Games he has trained and served as head officer in a first responders group dealing with Chemical-Biological-Radiological and Nuclear threats. He participated in working groups for the preparation of Emergency Response Intervention (ERI) cards and Emergency Response Guidebook of the H.F.C. based on original material from the US Department of Transportation. He has been national delegate in the CTIF Hazardous Materials Commission and certified Trainer for the National Certification Center. Furthermore, he was appointed as Investigator in technical investigations of the Greek Technical Chamber and Dangerous Goods Safety Advisor in road transportation by National Technical University of Athens. He speaks fluently English and has good knowledge of Spanish and Italian. Since June 2008 he works as a safety expert and security consultant with the Center for Security Studies (KEMEA) of the Ministry of Public Order and Citizen Protection.

**Mr Stylianos Ioannidis** is a retired Fire Officer and he is an associated partner in KEMEA, as a special researcher, in the fields of facing technological and natural disasters. He has a long experience in these issues, as a superior officer (General), as well as in fire suppression, dangerous hazard materials, in fire prevention, in rescues, and in education as a professor for 15 years in the Greek Fire Academy. Moreover, he has extensive expertise in Political and Administrative sciences with a PhD in Law. He has also served as a Director of training and education of the Greek Fire Service Headquarters.

List of relevant publications, and/or products, services
<ul style="list-style-type: none"> <li>• Jochen Schanze, Nicole Bischof, Hormoz Modaressi, J.M. Jacques and George Eftychidis (Eds). 2009: Natural Hazards and Risk Reduction in Europe – From Science to Practice, 2009. Springer-Verlag Edition (In Press), 555 p.</li> <li>• C. Isabella Bovolo, Simon J. Abele, James C. Bathurst, David Caballero, Marek Ciglan, George Eftichidis, Branislav Simo. 2009: A distributed framework for multi-risk assessment of natural hazards used to model the effects of forest fire on hydrology and sediment yield. Computers &amp; Geosciences 35(5): 924-945 (2009)</li> <li>• Stefan J. Scheer, Vassiliki Varela, George Eftychidis. 2012. A generic framework for tsunami evacuation planning. In Physics and Chemistry of the Earth, Volume 49, 2012, Pages 79–91. Pergamon-Elsevier Science Ltd Publications, ISSN: 1474-7065</li> <li>• Eftychidis G., Forest and range fires (wildfires) 2013.: In the Encyclopedia of Natural Hazards. Springer Verlag Publications, Encyclopedia of Earth Sciences Series, P.Bobrowsky, International Union of Geological Sciences (IUGS), Ottawa, ON, Canada (Ed.), ISBN 978-90-481-8699-0</li> </ul>
Relevant projects/ activities
<ul style="list-style-type: none"> <li>• <b>EU-CIRCLE</b> (H2020 project, ongoing), A pan - European framework for strengthening Critical Infrastructure resilience to climate change</li> <li>• <b>PREFER</b> (Copernicus project, Completed)- Space-based information Support for Prevention and Recovery of forest fires emergency in the Mediterranean Area</li> <li>• <b>FERMIS</b> (Bilateral Greece-Israel project, completed) - Fire Event Remote Management Information System (Greece-Israel Bilateral Research Cooperation, Greek NSRF Program)</li> <li>• <b>PREDICATE</b> (DG ECHO project, ongoing) - PREventing Disasters by CAPITALizing on unmanned aerial systems TEchnology</li> </ul> <p>KEMEA participates in the above projects and cooperates with other projects as well in collaboration with national and European scientific groups developing decision support and information management applications related to natural hazards prevention, mitigation and preparedness. KEMEA's main role in these activities is to identify the needs of the users and to define the relevant operational requirements.</p>
Significant infrastructure and major items of technical equipment relevant to the proposed work
<p>KEMEA has a large test facility, located in Markopoulo, Attica (Gr). It includes indoor and outdoor multimodal and multipurpose testbed spaces and is able to host a vast range of different type of events within the scope of Research, Testing, Pre-operational Validation (POV) and Pre-commercial Procurement (PCP) activity. The capabilities offered, vary from the simulation of the impact of natural disasters (earthquake, flood, forest fire etc.) to an area or to critical infrastructures for implementing tests and demo cases. The facility has the appropriate communication and network infrastructure for organizing table top exercises, and training of large end users' groups. It is combined with a pilot-scale though operative command and control center, operated by KEMEA for training and validation purposes, which can be used for demonstration purposes as well.</p>
Contribution to the project
<p>The contribution of KEMEA to the project will refer to its institutional role in Greece that is linking R&amp;D community with public end users, including law enforcement agencies (Police, Fire Service, Coast Guards) and civil protection organizations (at central and regional level). Based on the European presence and</p>

activity of KEMEA in different fora and associations at the EU level (EPCIP, EOS, ENLETS etc) the Center shall also establish interactive and bidirectional links between the activity of the network with relevant EU policy and decision making schemes.

Furthermore KEMEA shall contribute with the expertise and professional knowledge of its staff in issues related to systems and technology, planning of operations, organization of systems testing, prototypes validation and training. The Center shall inform the working groups of the network through cooperation mechanisms in place with all operational actors involved in disaster, emergency, and crisis management in Greece concerning the end user needs and the relative organizational requirements as they are recorded in the Greek operational realm. Furthermore, KEMEA, being the Greek National Focal Point of the European Program for protecting Critical Infrastructures of European Interest shall contribute to relative working groups that may be established within the network. KEMEA shall also contribute to the identification of use-cases relative to the network objectives and plans, the elaboration of proper scenarios for testing and validating innovative solutions that will be considered, the design and planning of field tests and table top exercises that will contribute to evaluate R&D achievements in the context of H2020 as well as R&D activity and results at national level in EU MS. Based on the participation to a number of Pre-Operational Validation (CLOSEYE) and to Pre-Commercial Procurement (EWISA, CIRCUS) EU projects, KEMEA can contribute to the relevant experiences and lessons learned for planning future R&D activities following a similar approach. Finally, being involved in national security policy planning, KEMEA may contribute to the identification and elaboration of legislative and ethical issues related to R&D results relevant to fire fighting in EU

1 5	CAFO	Type	Website	Czech Republic
<b>Organisation Description</b>				
 <p>Czech Association of the Fire Officers (CAFO) is the non-governmental professional national organization (NGO). CAFO is national wide-it means that is active on the whole territory of the Czech Republic. The primary aim of CAFO is to create a platform where higher rank fire officers from full-time Fire Rescue Service can create an expert opinion on matters effecting field of fire safety and fire protection. CAFO would like to influence a policy on that matter on Governmental level as well as on the regional and local level. The focus of these efforts is the recognition that fire safety and fire protection is a sophisticated system of prevention and intervention which is the nation's primary defence in emergency situations. Through this collaboration, optimum improvements will be achieved in management, organisational structures, training, legislation, fire-fighting equipment and human resources. In turn, the most effective, progressive and economical results will be achieved to minimise the losses to property, the economy and the community, as a whole which would normally result from the outbreak of fires and other emergency situations. CAFO is a member of the Federation of the European Union Fire Officer Associations (FEU).</p> <p>The one of the core activity of CAFO is to prepare proposals for the state, regional and local authorities, the Government and the Parliament of the Czech Republic, regarding the level of fire safety and fire protection, legislation, technical equipment, financial resources and organisational structures.</p> <p>Main tasks of CAFO:</p> <ul style="list-style-type: none"> <li>to provide practical experience, knowledge and advice to the respective authorities when</li> </ul>				

making specific decisions; to promote technical experience to the mass media to raise the profile of fire protection and to achieve recognition and acknowledgement of the value of fire-fighters' work for the community,

- to propose amendments to, and comment on new legislation which effects fire protection, utilising practical experience, knowledge, engineering, research and development,
- to support, develop and improve the level of international and cross-border co-operation among Fire Services and other actors,
- to organise conferences, seminars and discussion workshops on the current topics of fire protection and to analyse the outcomes,
- to contribute to the education of new fire officers, including the development of specialist courses which enhances the professional status of Fire Protection,
- to abide by the Articles of FEU and contribute to the meetings and work of the association,
- to support, help and initiate the formation of any other activities that CAFO may consider should be part of its jurisdiction,
- conduct research and collaborate on research projects focused on fire protection, population protection, crisis management and civil emergency preparedness,
- to participate in the education of people of all ages in fire protection and civil protection.

Membership in CAFO is voluntary. Any officer of Fire Rescue Service of the Czech Republic (FRS CZ) can become a CAFO member. A person who is not a member of the FRS CZ or not an officer's rank, may become a CAFO member by the council's recommendation. CAFO is represented by Assembly, Council and President of CAFO. The Assembly is the supreme body of CAFO

#### Profile(s) of expert(s) involved

**Dipl.Ing.Vladimir Vlček** (male), Ph.D., president of CAFO. Vladimir Vlcek has over 31 years of practical experience in the management of FRB. He worked in various management positions in the Fire Service of Czech Republic. Currently he is the deputy Chief Fire Officer of the Fire Rescue Brigade of Moravian-Silesian Region and Chief Fire Officer of the City of Ostrava. Vladimir Vlcek has a practical experience in management of large scale incidents for example. Floods in 2007, Railway accidents, Explosions etc. He is an expert of EU Civil Protection and participated on international missions such as Japan (TL of EUCP Team), Jordan (TL of EUCP Team), Namibia etc. Vladimir Vlcek is the team leader of HUSAR team and participate on others civil protection modules. He participated on research project of CAFO and he works as an associated professor at the Technical University of Ostrava.

**Dipl.Ing.Petr Ošlejšek** (male), Ph.D, vice president of CAFO. Petr Oslejsek has over 16 years of practical experience in the management of fire brigades. He worked in various management positions in the Fire Service of Czech Republic. Currently he is the deputy Chief Fire Officer of Fire Rescue Brigade of Olomouc Region. Petr Oslejsek has practical experience in management of large scale incidents for example. Floods in 2010, industrial fires etc. He has experience of development projects of Fire Rescue Service of the Czech Republic in Moldova. Petr Oslejsek participated on different projects (flashover training, crisis management staff training etc. He has practical experience in High capacity pumping Modules and training of EU Civil Protection. Petr Oslejsek participated on the research projects of CAFO.

**Dipl.Ing.Richard Franc** (male), member of CAFO. Dipl. Ing. Richard Franc is a Chief of the Integrated Rescue System section of FRB. He graduated in the area of fire security at the Technician University of Ostrava, Czech Republic in 1999. From the years 2000 he worked as an expert in the section of

Integrated Rescue System on General Headquarter of Fire Rescue Service of the Czech Republic. He was responsible to establish a new system for providing the rescue from heights and depths including utilisation of helicopters, currently he is a member of the Lector Committee in heights and depths in the Czech Republic. He focuses on the humanitarian assistance and USAR operations abroad, he is a classifier nominated for External Classification and Reclassification of USAR Teams under umbrella of INSARAG. Richard Franc is a national expert for Community Mechanism for Civil Protection (EU) and also an associated professor at the Technical University of Ostrava.

**Dipl.Ing.Martin Nekula** (male), member of CAFO. Martin Nekula has over 14 years of experience in the FRB. He worked in various positions in the Fire Rescue Brigade of Moravian-Silesian Region. Currently he is the Chief of Chemical and technical department of the Fire Rescue Brigade of Moravian-Silesian Region and deputy Chief of Service. He participates on many projects of progress fire trucks, fire equipment and technologies. He works on the conception of fire truck devices and co-ordinate equipping Units of the Fire Rescue Brigade of Moravian-Silesian Region.

#### List of relevant publications, and/or products, services

- Kučera P., Lokaj A., Vlček V., Behavior of the Spruce and Birch Wood from the Fire Safety Point of View, Advanced Material Research Vol.842 (2014) pp 725-728
- Kučera P., Bradáčová I., Dudáček A., Vlček V., Mathematical Modelling of Temperatures in Airways during a Fire with Effects on Evacuation of Persons, Advanced Material Research Vol.1001 (2014) pp 350-355
- Pokorný J., Kučera P., Vlček V., Specific Knowledge in Assessment of Local Fire for Design of Building Structures, Advanced Material Research Vol.1001 (2014) pp 362-367
- Ošlejšek, Petr. Training of firefighters in conditions of structural fires. In VSB - Technical University of Ostrava. Proceedings XVI. Annual International Conference 2007. Ostrava Fire Protection: Association of Fire Safety Engineering, 2007. pp. At 451.
- Ošlejšek, Petr. Flashover container of FRS Olomouc Region. 112: journal IRS fire protection and civil defense. 2007, vol. VI., No. 9, p. 10-11.
- Ošlejšek, Petr. Predestination of voluntary fire brigade to perform tasks in the field of civil protection, In VSB - Technical University of Ostrava. Proceedings XVI. Annual International Conference 2008. Ostrava Fire Protection: Association of Fire Safety Engineering 2018.
- Ošlejšek, Petr. Floods in the Olomouc Region in 2010 and the general problem of the activities of fire protection units during floods. In VSB - Technical University of Ostrava. Proceedings XIX. th International Conference on Fire Protection 2011. Ostrava Association of Fire Safety Engineering, 2011.
- Ošlejšek, Petr. Biogas plants from the perspective of fire brigade units. In Czech Biogas Association. Proceedings of the 7th International Conference Biogas 2012 Czech Budejovice, 2012.
- Ošlejšek, Petr. Experience with training of crisis staffs in the Olomouc region. In VSB - Technical University of Ostrava. Proceedings XXIII. th International Conference on Fire Protection 2014. Ostrava Association of Fire Safety Engineering, 2014.
- Ošlejšek, Petr. Power Outage 2015 - exercises of crisis management in the Olomouc region. In VSB - Technical University of Ostrava. Proceedings of XXIV. th International Conference on Fire Protection 20,015th Ostrava: Association of Fire Safety Engineering, 2015.

#### Relevant projects/ activities

- Federation of the European Union Fire Officer Associations (FEU) currently has as members

following National Association of Fire Officers from: Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Slovenia, Slovak Republic, Spain, Sweden, Great Britain, Hungary is represented by the national Authority for civil protection. CAFO has created links to other practitioners within the framework of international cooperation, e.g. Turkey, Moldova, Latvia, Lithuania and others.

- **Projects under the Security Research Program of Ministry of the Interior of the Czech Republic:**
  - ◆ **Simulation of the process of crisis management system in the lifelong learning of bodies of Integrated Rescue System and public authorities (2010-2015)** – Project leader: VSB - Technical University of Ostrava/ Faculty of Safety Engineering - Role of CAFO: subcontractor
  - ◆ **Research on high capacity pumping module for emergency situation (2013-2015)** – Project leader: SIGMA research and development institute, s.r.o. - Role of CAFO: subcontractor
  - ◆ **Specific assessments of high-risk conditions for fire safety using fire engineering practices (2012-2014)** – Project leader: VSB - Technical University of Ostrava/ Faculty of Safety Engineering; Role of CAFO: research partner
- **Projects under the Program for training and education of employee**
  - ◆ **A comprehensive training program for the staff of the Mine Rescue service (2010-2012)** – Project leader: OKD, HBZS, a.s. ; Role of CAFO: subcontract form of training and exercises
  - ◆ **E-learning and information system of Fire Rescue Service of the Czech Republic (2013-2015)** – Project leader: Special Secondary School of Fire Protection and High Special School of Fire Protection in Frýdek-Místek; Role of CAFO: subcontract preparation of training materials
- **Projects under the Program FP7 Security**
  - ◆ **Heavy Payload Helicopter for Last Mile Rescue (HELI4RESCUE) (2012-2014)** – Project leader: FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V; Role of CAFO: research partner
- **Project under Lifelong Learning Programme Leonardo da Vinci**
  - ◆ **Interactive safety training of hotel personnel (SAFEHOTEL) (2003)**
  - ◆ **FIRECOMP - Fire and Rescue Competence-based Training Project (FIRECOMP) (2000-2006)**

#### Significant infrastructure and major items of technical equipment relevant to the proposed work

N/A

#### Contribution to the project

CAFO in project represents the professional organisation of full-time fire officers of the Czech Republic. Thanks to the experience of its activities is able to provide expert opinion in the field of emergencies, large scale incidents, fire protection, civil protection and crisis preparedness. Members of CAFO have experience in coordination of large scale incidents in the Czech Republic (floods, fires, HAZMAT accidents etc.). Members of CAFO are active in the special teams and modules of Fire Rescue Services of Czech Republic (Urban Search and Rescue, Flood Rescue using Boats Modules, High Capacity Pumping Modules). CAFO as a member of the Federation of Fire Officers Association of European Union (FEU) will ensure the transfer of

information and knowledge to/from other member states/associations of FEU through regular meetings.

Regarding to the project objectives CAFO will participate in particular to the WP1. CAFO will contribute with its practical experience in fields of: Structure fires fighting, Hazardous material and Search and Rescue in various and dangerous conditions. CAFO will also be involved, like the other partners in WP4 and WP5. CAFO has experience in the FP7 framework - Security.

1 6	inno	SME	<a href="http://www.inno-group.com">www.inno-group.com</a>	France
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### Organisation Description



inno TSD (France) is part of the inno Group ([www.inno-group.com](http://www.inno-group.com)) an EU-based **innovation and technology transfer** consultancy practice with its headquarters in Germany (Karlsruhe) and further offices in France (inno TSD) and Sweden, employing approx. 60 staff members and having more than 20 years of experience. inno TSD specialises in **innovation and technology transfer**, university-industry cooperation, **exploitation** issues and IPR support, in **dissemination and outreach**, as well as in policy and programme **evaluation, benchmarking** and **impact assessment** studies. The group is quality certified ISO 9001 and adheres strictly to these conditions in all its project work. inno TSD, the French subsidiary of the inno-group, is established since 1986 and has about 20 staff members. The company has successfully delivered several hundred projects since it was established including 30+ FP6/FP7 projects (both IP, STREPs, support actions) and several H2020 projects recently started. Industrial partners of inno TSD include BASF, Group Repsol, INEOS, Lenzing, Alcatel, Honeywell, Ericsson, Gemalto, EDF, CEA, ST Microelectronic, Telecom Italia, Shell, Total, Arcelor Mittal, BTS, Arkema, P&G, Bayer, Solvay etc and many SMEs along with business support intermediaries such as cluster organisations. The company works alongside international research organisations such as the CNRS, Fraunhofer and leading Universities such as TUDO in Germany. Furthermore the inno group is an associate partner of the KIC InnoEnergy Germany, supporting KIC InnoEnergy ([www.kic-innoenergy.com](http://www.kic-innoenergy.com)), one of the first Knowledge and Innovation Communities (KICs) bringing together Europe wide leading businesses, research organisations and universities within a network of about 200 partners.

Inno has lead a number of studies for the EC, such as the analysis of **effectiveness of R&D to support the competitiveness of European industry**, or the ex-post **evaluation and impact assessment** of the FP6 NMP programme. Inno is responsible for the **European Cluster Collaboration Platform** on behalf of DG Growth that includes over 300 industrial clusters and works with clusters such as Pole SAFE to support them building and managing their international RDI projects. Inno also coordinates a research and innovation framework contract for DG Research and Innovation

Inno TSD took part in the project **BeWISER** funded under the Seventh Framework Programme of the European Commission, aiming at defining a Joint Action Plan involving 12 European countries with a focus on internet and network security and cyber security and safety aspects. BeWISER focused on strengthening research, innovation potential and global competitiveness of European regions by bringing together research actors, enterprises, institutions and policy makers into a collaboration network. Inno TSD was also the coordinator of H2020 project **CONNECT2SEA (CSA)** which established communication bridges and collaborations between the EU and ASEAN Cybersecurity communities to facilitate and enhance future

collaborations. It notably organised the EU-ASEAN Cybersecurity Forum 2016 (120+ participants) and international workshops, and built and animate e-Community of practices on the topics of Cybersecurity and Big data between the EU and South East Asian countries.

inno TSD also coordinates complex research projects, for example a STREP funded under FP7, NMP Programme (**MORE**- Real-time Monitoring and Optimization of Resource Efficiency in Integrated Processing Plants, 2013-2016), and is partner in the RIA **CONSENS (H2020 funding under SPIRE call)**, the STREP **DYMASOS on systems of systems (SoS with application cases in the chemical industry (2013-2016) and CPSoS** which aims at building constituencies for a **European R&I agenda on SoS**. In these and other research and innovation projects, inno supports industrial and academic partners in knowledge management, exploitation, outreach and dissemination issues, often organizes collaboration with external parties (Advisory Board, open call management) and regularly conducts impact analysis.

**inno is involved in international communication and dissemination** actions for various H2020/ FP7 projects such as TELL US (digital industry clusters), FESTIVAL (Internet of things) and other industrial projects.

### Profile(s) of expert(s) involved

**Marc Pattinson** (male) is Managing Director of inno TSD. He has 30+ years of project experience in technology and economic development projects, EU policy making linked to innovation cluster support programmes, entrepreneurship and SME demand analysis and technology studies across Europe. He has been closely involved in the animation of a number of the innovation projects and networks. He manages the ECCP on behalf of DG Growth and is responsible for the communication and dissemination work package in the new European Cluster Observatory project. He also participates in a number of FP7 ICT research and international collaboration projects. As such he has an excellent knowledge of the ICT stakeholder community and specialises in the project promotion and dissemination actions as well organising contests, conferences and providing content for EU platforms, newsletters etc... He has been closely involved in the project BeWiser on Internet security and safety for the DG Research, bringing its expertise to develop a Joint Action Plan. He was recently the project Director of a DG Connect project responsible for the development of a European level contest in the field of Technology Enhanced learning. This involves the organisation of events and dissemination actions at which he is often invited to speak or animate round table discussions.

**Marianne Baumberger** (female) graduated from the University of Nice-Sophia-Antipolis with a Masters degree in the Economics of innovation (2006), followed by a Master degree in industrial development (2008). She contributes to national and European studies dealing with economic development based on innovation: territorial diagnostic, policy recommendation and definition, policy evaluation. She is also very familiar with ICT projects within the European framework, having coordinated MyFIRE European project (FP7) –with the purpose to increase research results on future Internet, by wider and more effective use of the experimental facilities, through the implementation of the biggest and most effective ICT research infrastructures put in place in order to test the research. This project has examined various issues challenging the ICT sector in Europe; including the needs of technology researchers, the role of platforms within this research. She was involved in the project BeWiser on the Internet security and safety for the European Commission and took part in the mapping and development of regional SWOT's and for developing the first elements of the Joint Action Plan. She is specialized in sector analysis, and support tools for sector development such as clusters and business networks and used to coordinate FP7 European projects. She has a very good practice knowledge of EU policy, issues and projects on innovation and regional development (H2020, Structural Funds, ...).

**Camille Duran** (female), consultant at inno TSD, graduated from the Grande Ecole Sciences Po (France) in 2014, where she studied political science in particular, law and economics, and where she specialised in International and European Affairs (Master 1) and European applied policies (Master 2). She joined inno in March 2014 and has experience in organising and managing H2020 projects, organising international events, performing policy and economic analysis and dissemination actions. She is particularly involved on **projects related to International Science, technology and Innovation cooperation (CONNECT2SEA, BILAT USA 4.0, BILAT USA 2.0, BLACKSEAHORIZON and BILAT-RUS Advanced, FP7)**, and **cluster-related missions**. She was often involved in the organisation of networking events for businesses, research institutions, policy workshops and conferences. She has a clear understanding of EU policy, issues and projects on innovation and regional development (COSME, H2020, Structural Funds, INTERREG etc.)

**Christian Ranieri** (male), is a Financial Administrator at inno TSD. Holding a Masters degree in « Auditing, Management Accounting & Information Systems » from Skema Business School – Sophia Antipolis, he joined the inno team in September 2013 after experiences in Public Accounting and Finance Controlling. Its main function is administrative and financial management of 14 current European projects under the FP7 and H2020 frameworks. He is currently in charge of the financial management for the whole consortium of four European projects: BEWISER, CONNECT2SEA, MORE, TELL US. To manage each project, he set up several internal tools and financial guidelines adapted to each project and according to the level of experience of each partner. He gave numerous presentations to introduce the financial guidelines to various organisations.

#### List of relevant publications, and/or products, services

Inno is a consultancy company, most reports are prepared for the clients, and not published. Some examples of inno services/products/reports include:

- An assessment of the ICT security skills in the industrial sector as provided through education and training. AUTHORS: Harald Gjermundrod, Ioanna Dionysiou, Marianne Baumberger and Marc Pattinson
- **Innovation Strategy in R&D projects: a step-by-step guide:** <http://www.health2market.eu/results/step-by-step-guide>
- **Innovation dimension in Horizon 2020 proposals<sup>1</sup>:** set of good practices to understand innovation related issues both in Research and Innovation Actions (RIA) and Innovation Actions (IA): <http://www.health2market.eu/results/h2020-annotated-template>
- **Framework Contract “Provision of Services in the Field of Research Evaluation and Research Policy Analysis” Lot 3, Final Report (2015)**
- **ECCP - Supporting international cluster and business network cooperation through the further development of the European Cluster Collaboration Platform”** is a 24-month study under the reference EASME/COSME 2014/023. As the coordinator, inno is in charge of the overall management and coordination of the activities and contributing to the development of the new interactive web platform. inno is also responsible for the organisation of international cluster matchmaking events and strategic cooperation with Third Countries and policy support. (2015-2017).
- **The European Cluster Collaboration Platform mapping tool**, for EASME/COSME. inno is coordinator of the service contract and in charge of the mapping tool development (2016);
- **A series of eight handbooks produced under the EU TACTICS project aimed at helping clusters develop international marketing and branding strategies, helping direct innovation funding to**

<b>SMEs...</b>
<b>Relevant projects/ activities</b>
<ul style="list-style-type: none"> <li>• <b>BeWISER</b> European project (ROK): Definition of Joint Action Plan involving 7 Regions with focus on Internet and wireless security - Client: European Commission</li> <li>• <b>CONNECT2SEA</b> (H2020 project): project coordination; project dedicated to enhance cooperation in ICT between EU and SEA countries with a focus on Cybersecurity. Client: European Commission.</li> <li>• <b>RTE</b> (national French Company): Design of a research agenda on the security in electric network Innovation Strategy in R&amp;D projects: a step-by-step guide;</li> <li>• <b>Innovation dimension in Horizon 2020 proposals</b>: set of good practices to understand innovation related issues both in Research and Innovation Actions (RIA) and Innovation Actions (IA);</li> <li>• Framework Contract <b>"Provision of Services in the Field of Research Evaluation and Research Policy Analysis"</b> Lot 3, Final Report (2015)</li> </ul>
<b>Significant infrastructure and major items of technical equipment relevant to the proposed work</b>
N/A
<b>Contribution to the project</b>
<p>inno TSD will bring its expertise in project management (WP5) in support of Pole SAFE, support the communication and dissemination management (WP4), as well as interactions with industries and research actors through implementing technology screening methodologies (WP2).</p>

## 4.2. Subcontracting

The description of the subcontracting costs for each partner is provided below:

SUBCONTRACTING				P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
				POLE SAFE	ENSOSP	CNVVF	ENSOSP	GFMC	EU-VRI	FhG-INT	PCF	CFS	CNBOP	SGSP	CBSS	MSB	KEMEA	CAFO	INNO
Category	Details	Corresponding WP	TOTAL																
Design of Platform	Technical design of the platform and associated dialogue tools	4-Stakeholder engagement, continuous dialogue and dissemination	80 000				80 000												
Project web site	Project web site technical development, by the same service provider as the platform	4-Stakeholder engagement, continuous dialogue and dissemination	5 000				5 000												
Marketing materials	Developping and printing marketing materials of the project (including visual identity)	4-Stakeholder engagement, continuous dialogue and dissemination	15 000												15 000				
TOTAL SUBCONTRACTING (€)				100 000	0	0	0	85 000	0	0	0	0	0	0	15 000	0	0	0	0

## 5. Ethics and security

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### 5.1 Ethics

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All the activities carried out under FIRE-IN will comply with ethical principles and relevant national, EU and international legislation, such as the Charter of Fundamental Rights of the European Union and the European Convention on Human Rights.

All data collected and processed will be in compliance with privacy. They will be hosted in France (Europe) and thus will be submitted to the compliance with the National Data Processing and Liberties Commission (Commission Nationale de l'Informatique et des Libertés - CNIL)'s rules, which is a guarantee of privacy. No sensitive personal data will be collected. Data protection measures will be applied with regard to data collection, storage, retention, destruction, privacy and confidentiality.

The FIRE-IN project will support open and responsible research and innovation collaboration.

### 5.2 Security

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Activities or results of the project are expected to raise security issues: NO

'EU-classified information' will be used as background or results: NO

Any potentially sensitive topic, notably in the CBRNE thematic, will be treated with a particular attention and with the required level of confidentiality (according to the AEs' requirements) and the results and data classification and protection will be considered on a case-by-case basis with the European Commission.

## 6. Annexes

### 6.1 Annexe 1: List of abbreviations

The present list presents and develops the main abbreviations used in the FIRE-IN proposal.

ACRONYMS	
AB	Advisory Board
AE	Associated Experts
AFO	Administrative and Financial Office of the project
BM	Business Model
BP	Business Plan
CBRNE	Chemical, Biological, Radiological, Nuclear, and Explosive materials
CCCs	Common Capability Challenges
COTS	Commercial off-the-shelf
CoU	Community of Users
CP	Civil protection
CPM	Civil Protection Mechanism
CSA	Coordination and Support Action
CTIF	International Association of Fire and Rescue Services
DG HOME	Directorate General for Migration and Home Affairs of the European Commission
DSRSA	Draft Strategic Research and Standardisation Agenda
EARTO	European Association of Research and Technology Organisations
ECCP	European Cluster Collaboration Platform
ECML	Joint Research Centre's European Crisis Management Laboratory
EENA	European Emergency Number Association
EERC	European Emergency Response Capacity
EMR	Emergency Medical Response
EOS	European Organisation for Security
ETPIS	European Technology Platform on Industrial Safety
EU	European Union
F&R	Fire and Rescue
FCCCs	Future Common Capability Challenges
FEU	Federation of European Union Fire Officer Associations
FP, FP7	Referring to the EU's Framework Programmes for Research and Innovation; 7 <sup>th</sup> EU Framework Programme for Research and Innovation
GA	Project's General Assembly
GIS, GPS	Geographical Information System ; Global Positioning System
H2020	European Union's 8th Framework Programme for Research and Innovation
HAZMAT	Hasardious Materials
IAB	International Advisory Board
ICT	Information and Communication Technologies
LEA	Law Enforcement Agencies

<b>MS</b>	European Union's Member State
<b>NCP</b>	National Contact Point
<b>NGO</b>	Non-governmental organisation
<b>PCO</b>	Project's Coordinator
<b>PCPs</b>	Pre-Commercial Procurements
<b>PCU</b>	Project Coordination Unit
<b>PNNC</b>	Permanent Network of National Correspondents (PNNC) of DG ECHO
<b>PNRS</b>	French National portal of resources and knowledge
<b>PPIs</b>	Public Procurement of Innovative Solutions
<b>QA</b>	Quality Assurance
<b>R&amp;D</b>	Research and Development
<b>R&amp;I</b>	Research and Innovation
<b>R&amp;T</b>	Research and Technology
<b>RDI</b>	Research & Innovation & Development
<b>RTD</b>	Research Technology and Development
<b>RTOs</b>	Research and Technology Organisations
<b>SAR</b>	Search and Rescue and
<b>SEC-21</b>	Refers to the call SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the field of security
<b>SEREN3</b>	Security Research NCP Network 3
<b>SME(s)</b>	Small and Medium Enterprise(s)
<b>SotA</b>	State-of-the-Art
<b>SRA</b>	Strategic Research Agenda
<b>SRSA</b>	Strategic Research and Standardisation Agenda
<b>TEU</b>	Treaty of Lisbon
<b>TIEMS</b>	International Emergency Management Society
<b>ToR</b>	Terms of References of the project' International Advisory Board
<b>TTM</b>	Time to Market: industrialisation level
<b>TWG / TWG5</b>	Refers to the 5 Thematic Working Groups of FIRE-IN
<b>UAS</b>	Unmanned Aerial Systems
<b>UCPM</b>	Union's Civil Protection Mechanism
<b>UXO</b>	Unexploded ordnance
<b>WP</b>	Work Package
<b>WT</b>	Work Task

## 6.2 Annex 2 Related networks, initiatives and platforms already linked to FIRE-IN

**Table 1 - Related networks, initiatives and platforms already linked to FIRE-IN**

Title	Level	Thematic relevance	Established link to FIRE-IN
Community of Users (CoU)	EU	The CoU is an activity organised by DG HOME and prominent research projects to promote research findings and stimulate dialogue between all relevant stakeholders.	Fraunhofer is partner in both demonstration projects that are providing funding to the CoU and is an active contributor to the events. Further Fraunhofer and SAFE Cluster established a national conference format (I4CM) that acts complementary to the CoU and strives to engage practitioners at local level.
European Technology Platform on Industrial Safety (ETPIS)	EU	ETPIS is an open network with more than 800 registered stakeholders and about 100 active organisations addressing the topics of prevention and mitigation of natural and technological disasters.	The FIRE-IN partner EU-VRi is the operating agent of ETPIS and will use this role to further operate FIRE-IN after the end of the EC co-funding.
European Emergency Number Association (EENA)	EU	EENA main focus was in the Control Centres domain, but grew over and now connects practitioners with research outcomes and companies providing consolidated and innovative solutions for the whole emergency management domain.	The FIRE-IN partner CNVVF is member of EENA and will bring the project outcomes to their annual workshops which gather some 500 attendees (practitioners, industry and research). KEMEA is also member of EENA and has good contacts with them.
Public Safety Communication Europe (PSCE)	EU	PSCE brings together practitioners and industries to cooperate in selecting optimal solutions in the emergency communication domain.	The FIRE-IN partner CNVVF is member of EENA and will bring the project outcomes to their workshops (every 6 months) which gather some 50-100 attendees (practitioners, industry and research)
National Fire Protection Association (NFPA)	Int.	NFPA publish standards into the Fire Safety domain which initially were U.S. centred, but now are taken as reference worldwide and – in some Countries - adopted as regulation.	The FIRE-IN partner CNVVF is member of the NFPA 1616 Committee on Mass Evacuation and Sheltering and the NFPA 1600 Committee on Disaster/Emergency Management and Business Continuity/Continuity of Operations Programs and will bring the project outcomes to such committees to be discussed and possibly adopted.
European Organisation for Security (EOS)	EU	Industry Organisations	KEMEA is founding member of EOS.

EARTO	EU	European Association of RTOs	Fraunhofer and KEMEA are members of the Security Working Group within EARTO. Fraunhofer co-chairs the group.
TIEMS	Global	International Emergency Management Society	Fraunhofer holds good contacts.
CTIF	Global	International Association of Fire and Rescue Services	The links will be made through MSB and SAFE mainly. The CTIP President is member of MSB. The French Firefighters Association, FNSPF, is founder of CTIF and Secretary General of this network. SAFE is in connexion with CTIF as FNSPF is at the Board of SAFE, and supports FIRE-IN (see support letters). In addition, SAFE include several members that are in thematic working groups of CTIF
FEU	EU	Federation of European Union Fire Officer Associations	CAFO is a member of FEU. CAFO will provide FEU members involvement in technical discussions on the project. Project results will be presented at the regular meetings FEU.
SEREN3	EU	Security Research NCP Network 3	SAFE, as NCP Secure societies is invited to all the SEREN3 events and will be able to share results and work progress with them.
Regional Wildland Fire Networks	Europe	Three Regional Wildland Fire Networks operating under the umbrella of the UN International Strategy for Disaster Reduction (UNISDR) are key actors in capacity building and at the Science-Policy-Interface (SPI)	FIRE-IN partner GFMC is in charge of the Regional Eurasia Wildland Fire Network; 2 Associated Experts represent the Regional SE Europe / Caucasus and the Eastern European networks
International Wildfire Preparedness Mechanism (IWPM)	Global	Provide an opportunity to liaise result of the project to the international level	GFMC is serving as Secretariat of the IWPM
ECCP	EU	Pan-European and Cross sectoral cluster networks with 300+ members providing access to RDI actors	Currently managed by inno TSD on behalf of DG GROWTH.
CEPOL	EU	European Union Agency for Law Enforcement Training	KEMEA is framework partner of CEPOL for the coordination and implementation of training activities and learning products.
ENLETS	EU	European Network of Law Enforcement Technology Services	KEMEA is member of the ENLETS group and National Contact Point for Greece
EPCIP	EU	European Program of Critical	KEMEA is appointed NCP for Greece and

		Infrastructure Protection	member of the EPCIP working group
SFMC – The French Society of Medicine of Catastrophe	EU	The society gathers today approximately 700 French and foreign regular members.	ENSOSP holds good contacts.
EFSCA	EU	European Fire Service Colleges' Association	It groups all National fire-fighter training centres of the EU 27 and the 4 countries of the European Trade Association. Its main goal is to promote and assist R&D. ENSOSP is a member of this European protection civil association
ECCG	EU	European Chapter Coordination Group of the Society of Fire Protection Engineers	Links will be made through SGSP, as Piotr Tofilo is Present of the Group.

## 6.3 Annex 3: Letters of support

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This annex contains the letters of support stating agreement of being member of the International Advisory Board or the Thematic Working Groups, or giving general support to the project and its consortium. This reflects the work that was made at the proposal stage to secure supports, a work that will be continued during the project lifetime.

In the following letters of support are grouped into:

- International Advisory Board members
- Associated Experts
- Other organisations and initiatives supporting FIRE-IN

### 6.3.1 International Advisory Board members

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- **Patrick Butor**, Ministry of Interior, France – Minister-level official responsible for standards, and Convenor for ISO/TC 292 (standardisation in the field of Security) on the WG6 dedicated to protective security.
- **Geraud Canet**, Centre de l’Energie Atomique, France - Chair of the EARTO Security Working Group
- **Ann Enander**, Swedish Defense University, Sweden – Associate Professor at the Leadership Centre, Past-President of the Society for Risk Analysis Europe (SRA-Europe, <http://sraeurope.org/>) and social scientist known for her work in risk and crisis communication
- **Clive Goodchild**, BAE Systems, United Kingdom – coordinator of the EDEN project (largest CBRNe Demo project in FP7) and Member of the IMG-S Board.
- **J Javier Larrañeta**, Spanish Technology Platform on Industrial Safety (PESI), Spain – Secretary General at PESI and Member of the Executive Board of the European Technology Platform on Industrial Safety (ETPIS, [www.industrialsafety-tp.org](http://www.industrialsafety-tp.org)), in charge of the security topics
- **Javier Mulero Chaves**, German Aerospace Center (DLR), Germany – Project Manager at the Institute of Communications and Navigation. Around 10 years of experience in national (German) and European projects focused on the provision of communication solutions for emergency management (EU FP7 WISECOM, e-Triage) and early warning of the population (Alert4All, PHAROS).
- **Robert Reiss**, Conseil pour la réduction des accidents industriels majeurs (CRAIM, [www.craim.ca](http://www.craim.ca)), Québec, Canada – Chairman of the Technical Committee at the CRAIM, more than 30 years of experiences in working on emergency management for the Canadian Government, Environment Canada.



MINISTÈRE DE L'INTÉRIEUR

30 June 2016

Patrick BUTOR

Subject: Support letter to the project proposal "Fire and Rescue Innovation Network (FIRE-IN)"

SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the field of security

Dear Jean-Michel,

Thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to us and is in the interest of the fire and rescue communities and we gladly confirm our interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition we will be happy to participate in project events, notably the workshops for practitioners dedicated to identify capability challenges in our domain and other events. We would also be happy to directly contributing on the online platform that the project plans to set up in order to make this platform alive. We can also provide feedback on our experience of RDI matters in the field of fire and rescue.

In conclusion we can confirm that we are very interested in working with your project and should you require any support in the development of the project or develop synergies with other projects that we are delivering do not hesitate to contact us.

We wish you every success with the FIRE-IN proposal which we believe can make a valuable contribution to the fire and rescue practitioner communities in Europe.

Yours sincerely,

Patrick BUTOR,  
French Home Office



MINISTÈRE DE L'INTÉRIEUR

**Letter of Confirmation for participation  
in the International Advisory Board of the FIRE-IN project**

Subject: confirmation of participation in the International Advisory Board of FIRE-IN Project

Dear project Co-ordinator,

Herewith, I confirm that I accept to participate in the International Advisory Board of the FIRE-IN Project.

I confirm that I have read and understood the Terms of Reference that you sent me, and I accept them.

I have noticed that:

- FIRE-IN will last 5 years, planned to start end of 2016, and I am ready to contribute during this period,
- my travel expenses related to the meetings of the IAB will be covered by the project according to the Terms of Reference, but not the time spent to review the documents and attend the meetings.

Yours sincerely

Patrick BUTOR,  
French Home Office

A handwritten signature in blue ink, appearing to be 'P. Butor', written over a faint circular stamp.

Paris, 2016-06-30



**Letter of Confirmation for participation  
in the International Advisory Board of the FIRE-IN project**

Subject: confirmation of participation in the International Advisory Board of FIRE-IN Project

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Yours sincerely

Géraud Canet, CEA List



Dourdan, August 5<sup>th</sup>



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Yours sincerely

Ann Enander

Associate Professor, Leadership Centre  
Swedish Defence University  
SE 651 80 Karlstad, Sweden

Karlstad, 9<sup>th</sup> August 2016

**BAE SYSTEMS**

Please return the letter as a signed PDF document to:  
Jean-Michel DUMAZ  
Co-ordinator of FIRE-IN  
Email: jean-michel.dumaz@safeccluster.com

**Letter of Confirmation for participation  
in the International Advisory Board of the FIRE-IN project**

Subject: confirmation of participation in the International Advisory Board of FIRE-IN Project

Dear project Co-ordinator,

Herewith, I confirm that I accept to participate in the International Advisory Board of the FIRE-IN Project.

I confirm that I have read and understood the Terms of Reference that you sent me, and I accept them.

I have noticed that:

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- my travel expenses related to the meetings of the IAB will be covered by the project according to the Terms of Reference, but not the time spent to review the documents and attend the meetings.

Yours sincerely

Clive Goodchild, BAE SYSTEMS



Signature

5<sup>th</sup> August 2016, Rochester UK



Please return the letter as a signed PDF document to:  
Jean-Michel DUMAZ  
Co-ordinator of FIRE-IN  
Email: jean-michel.dumaz@safecluster.com

**Letter of Confirmation for participation  
in the International Advisory Board of the FIRE-IN project**

Subject: confirmation of participation in the International Advisory Board of FIRE-IN Project

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- my travel expenses related to the meetings of the IAB will be covered by the project according to the Terms of Reference, but not the time spent to review the documents and attend the meetings.

Yours sincerely

J JAVIER LARRAÑETA  
PESI, SECRETARY GENERAL



Bilbao (Spain), 8<sup>th</sup> August 2016

Please return the letter as a signed PDF document to:  
Jean-Michel DUMAZ  
Co-ordinator of FIRE-IN  
Email: jean-michel.dumaz@safeccluster.com

**Letter of Confirmation for participation  
in the International Advisory Board of the FIRE-IN project**

Subject: confirmation of participation in the International Advisory Board of FIRE-IN Project

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- my travel expenses related to the meetings of the IAB will be covered by the project according to the Terms of Reference, but not the time spent to review the documents and attend the meetings.

Yours sincerely

Javier Mulero Chaves, German Aerospace Center (DLR)

i. A. 

17.08.2016, Wessling (Germany)

Tomaso de Cola, German Aerospace Center (DLR)

i. A. 

17.08.2016, Wessling (Germany)



À:  
Jean-Michel DUMAZ  
Co-ordinator of FIRE-IN  
Email: jean-michel.dumaz@safeccluster.com

**Letter of Confirmation for participation  
in the International Advisory Board of the FIRE-IN project**

Subject: confirmation of participation in the International Advisory Board of FIRE-IN Project

Dear project Co-ordinator,

Herewith, I confirm that I accept to participate in the International Advisory Board of the FIRE-IN Project. However, the confirmation of my participation as representative of the CRAIM has to finally be approved by the Council of CRAIM.

I confirm that I have read and understood the Terms of Reference that you sent me, and I accept them.

I have noticed that:

- FIRE-IN will last 5 years, planned to start end of 2016, and I am ready to contribute during this period,
- my travel expenses related to the meetings of the IAB will be covered by the project according to the Terms of Reference, but not the time spent to review the documents and attend the meetings.

Yours sincerely,

Robert Reiss,  
CRAIM (Conseil pour la Réduction des Accidents Industriels Majeurs)  
Directeur - Comité Technique du CRAIM  
robert.reiss@craim.ca

A handwritten signature in blue ink, appearing to read 'Robert Reiss', is placed above the typed name and contact information.

2016-08-07,  
St-Jean-sur-Richelieu, Québec  
Canada  
J2W 1L8

### 6.3.2 Associated Experts

45 Associated Experts have already expressed their support and interest in participating in the work of the 5 Thematic Working Groups organised as part of Work Package 1. Their list, with organisation, country and field of expertise relevant to FIRE-IN Thematic Working Groups are included in the table below.

Names, Function, Organisation	Country	Expertise (corresponding to FIRE-IN 5 TWGs)				
		SAR and EMR	Structure Fires	Vegetation Fires	Natural disasters	CBRNE
<b>Claus BAUCK</b> , KFWV	Germany			X		
<b>Patrick BOTEY</b> , Director I&CM Consulting	France	X		X	X	
<b>Marien SETTI</b> , Expert I&CM Consulting	France					
<b>Tim CUTBILL</b> , Assistant Commissioner in London Fire Brigade and also a Director of London Fire Brigade Enterprises.	United Kingdom	X	X		X	X
<b>Lucian DEATON</b> , Manager Wildland Fire Operations Division, National Fire Protection Association (NFPA)	USA	X		X		
<b>Cobi DE BOER</b> , Head of Department for CBRN response, RIVM, Bilthoven	Netherlands					X
<b>Gilles C.GLIN</b> , Chief Executive, GSA Lyon	France	X	X			
<b>Dr. Christoph HARTEBRODT</b> , FOREST RESEARCH Institute Baden-Wurttemberg	Germany				X	
<b>Yvonne CHTIOUI</b> , FOREST RESEARCH Institute Baden-Wurttemberg	Germany				X	
<b>Sebastian SCHMACK</b> , FOREST RESEARCH Institute Baden-Wurttemberg	Germany				X	
<b>Luc HEYLEN</b> , Director fire fighter Training & Education, Campus Vesta, Ranst	Belgium	X	X	X	X	X
<b>Manuel ALONSO HERRERIAS</b> , Fire Officer. BCV Valencia	Spain	X	X			X
<b>Mark JONES</b> , Btinternet, Braddon,	Australia		X	X	X	X
<b>Daniel JOYEUX</b> , President Directoire Efectis Holding St Aubin	France		X			X
<b>Franck GAVIOT-BLANC</b> , Efectis Holding St Aubin	France		X			X
<b>René de FEIJTER</b> , Efectis Holding St Aubin	France		X			X
<b>Col. Karel KOLARIC</b> Chief Fire Officer SKMBT Olomuc	Czech Republic	X	X	X	X	X
<b>Jan ONDRUCH</b> SKMBT Olomuc	Czech Republic	X	X	X	X	X
<b>Martin DANIS</b> SKMBT Olomuc	Czech Republic	X	X	X	X	X
<b>Marek SOBEK</b> SKMBT Olomuc	Czech Republic	X	X	X	X	X
<b>Kim LINTRUP</b> , Chief Fire Officer, Frederiksbord fire&Rescue, Frederikssund	Denmark	X	X	X	X	X

Names, Function, Organisation	Country	Expertise (corresponding to FIRE-IN 5 TWGs)				
		SAR and EMR	Structure Fires	Vegetation Fires	Natural disasters	CBRNE
<b>Nikola NIKILOV</b> , Head of the RFMC, Skopje	Rep. of Macedonia			X		
<b>Col. Zdenek NYTRA</b> , Chief fire Officer FRS_FBR MSR- Moravian Silesian Region, Ostrava	Czech Republic	X	X	X	X	X
<b>Radim KUCHAR</b> , FRS_FBR MSR- Moravian Silesian Region, Ostrava	Czech Republic	X	X	X	X	X
<b>Jan BOJKO</b> , FRS_FBR MSR- Moravian Silesian Region, Ostrava	Czech Republic	X	X	X	X	X
<b>Martin NEKULA</b> , FRS_FBR MSR- Moravian Silesian Region, Ostrava	Czech Republic	X	X	X	X	X
<b>Dennis OTTOSEN</b> Director Sydotjyllards, Horsens	Denmark		X	X	X	X
<b>Rene MAEGAARD HEMBERG</b> Sydotjyllards, Horsens	Denmark		X	X	X	X
<b>Alvaro de la PENA CUESTA</b> , Deputy Director & International Coordinator, DGPCE Madrid	Spain		X	X	X	
<b>Angela IGLESIAS RODRIGO</b> , Forest Engeneer, DGPCE Madrid	Spain		X	X	X	
<b>Miguel TOME DE LA VEGA</b> , Head of Natural Risk Service, DGPCE Madrid	Spain		X	X	X	
<b>Francisco SENRA RIVERO</b> , Junta de Andalucia, Sevilla	Spain			X	X	
<b>Carlos RUIZ GUTIEREZ</b> , Junta de Andalucia, Sevilla	Spain			X	X	
<b>Manuel DELGADO CALDERON</b> , Junta de Andalucia, Sevilla	Spain			X	X	
<b>Antonio SANTIAGO GAHETTE</b> , Junta de Andalucia, Sevilla	Spain			X	X	
<b>Jose Luis SORIANO SANCHO</b> VAERSA, Valencia	Spain			X		
<b>Miguel Angel BOTELLA MARTINEZ</b> VAERSA, Valencia	Spain			X		
<b>Mario STARCEVIC</b> , CFA Zagreb	Croatia	X	X	X	X	
<b>Zeljiko POPOVIC</b> , CFA Zagreb	Croatia	X	X	X	X	
<b>Damir KNEZEVIC</b> , CFA Zagreb	Croatia	X	X	X	X	
<b>Renato PODBOJEZ</b> , CFA Zagreb	Croatia	X	X	X	X	
<b>John USTRAND</b> Professional Manager Fie Safety COWI, Oslo	Norway	X	X			
<b>Gabriel VIGNE</b> , Director, JVVA Fire & Risk, Madrid	Spain	X	X			X
<b>Lotta VYLUND</b> , M. Sc in risk management and safety engineering, SP Technical Research Institute of Sweden, Boras	Sweden		X			X
<b>Sergiy ZIBTSEV</b> , Head of REEFMC, Kyiv	Ukraine			X		

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Kreisfeuerwehr  
Lüchow-Dannenberg  
- Der Kreisbrandmeister –  
Ziegelberg

29439 Lüchow

**To FIRE-IN Coordinator**  
Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Lüchow, 11.07.2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating a European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.


The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional or local organizations involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of [full name of the organization] to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Claus Bauck



<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

- Kreisbrandmeister -

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Italian Ministry of Interior, Italy (IMI)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services – Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Chief Fire Officer Association, Czech Republic (CFOA)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote its expectations in the research road map
- To have an update of the state of the art and novel technologies concerning its area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners' networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Company Legal Name and Short Name (if applicable)**

Kreisfeuerwehr Lüchow-Dannenberg

**Company Name in English**

Fire Service of Lüchow-Dannenberg County

**Category:**

- ☐ European commission or agency
- ☐ Public body at national level
- ☒ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

Ziegelberg 26

**Postcode** 29439

**City** Lüchow (w.)

**Country** Germany

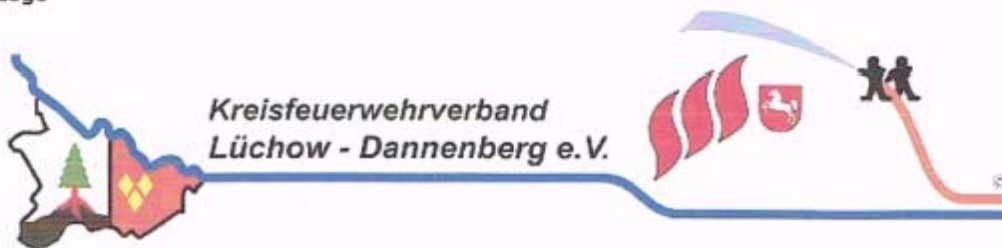
**Phone** +49 (0) 1707305105  
+49 (0) 58416703

**Web/URL** www.kfv-dan.de

**Main Contact Person** Dr. Michael Herrmann

**E-mail** michael.herrmann@waldbrandausbildung.de **Direct Phone** +49 (0) 152-33656794

**Logo**



**DESCRIPTION OF THE ORGANIZATION**

*Application Letter to become Associated Expert for the initiative FIRE-IN***Short profile of the organization (max. 10 lines)**

The county fire service is the head organization of all volunteer fire brigades in the county of Lüchow-Dannenberg (Germany). It maintains own units for regional and supra-regional assignments, especially for wildland fire fighting.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster :**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☐ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: *Indicate the contexts of expertise*
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☐ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

**Motivation to join the FIRE-IN (max. 10 lines)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

40% of the area of Lüchow-Dannenberg County are covered by forests, mostly by pine (*Pinus sylvestris*) forests characterized by high wildfire hazard. Several catastrophic wildfires took place in county. We assume that in future climate change and the change of demography will increase the threat of catastrophic wildfires in our county. For this reason we recognized the necessity of revising our tactical concepts as well as our wildfire training and equipment. We would like to contribute to FIRE-IN by defining the needs for innovations for a fire service, which may be considered typical for Central Europe and which is aiming to build competencies in wildland fire management for meeting the challenges of the future.

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

I&CM Consulting  
Allée Charles De Gaulle 20220 ILE ROUSSE FRANCE

To FIRE-IN Coordinator  
Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

ILE ROUSSE LE 20 JUIN, 2016

**Subject:** Application to become an Associated Expert of FIRE-IN

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional or local organizations involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of I&CM Consulting to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Patric BOTEY Director

---

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Italian Ministry of Interior, Italy (IMI)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services – Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Chief Fire Officer Association, Czech Republic (CFOA)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

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- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## APPLICANT INFORMATION

**Company Legal Name and Short Name (if applicable)**

**I&CM Consulting**

**Company Name in English**

**Incident and Crisis management Consulting**

**Category:**

- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☒ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

Allée Charles De Gaulle

**Postcode** 20220

**City** ILE ROUSSE

**Country** FRANCE

**Phone** +33-682-272-049

**Web/URL** -

**Main Contact Person** Pat BOTEY

**E-mail** pat.botey.consulting@gmail.com

**Direct Phone** +33-682-272-049

**Logo**



Application Letter to become Associated Expert for the initiative FIRE-IN

## DESCRIPTION OF THE ORGANIZATION

### Short profile of the organization (max. 10 lines)

Incident and Crisis Management: Civil Protection & Forest Fire Fighting, Other Crisis.

Directed by a graduate of the French Fire Brigade Officers National School, of Forest & bush Fire French academy and also specialized in maritime search and rescue. Expert or Evaluator on some EU forest fire fighting projects like PREFER in Athens (2015) and Cagliari (2016) or AF3 in Athens (2016).

Holder of training operational management & command course Type 5 (scale: 1 to 5)

Holder of training forest fire, bush fire management & command course Type 5 (scale: 1 to 5)

Holder of Incident Command System course Type 2 (scale: 5 to 1)

Holder of professional diver training course class II B & diving technical adviser Type 3 (scale: 1 to 3)

Holder of chief coastguard rescue training course Type 3 (scale: 1 to 3)

Holder of training adaptation for superior management employment.

### Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster :

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☒ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☒ S.A.R. activities in specific context: Maritime Search&Rescue
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

<p>Interest in complex crisis management methods and finding the best solution to implement.</p> <p>To share my experience of 40 years of firefighter involved in the management of large-scale incidents, including forest fire fighting, floods...</p> <p>Also good experience in preparing large-scale exercises including different services and agencies.</p>
--

**Motivation to join the FIRE-IN (max. 10 lines)**

***Please send this application form by email with the application letter to:***

***Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)***

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Application from:  
I&CM Consulting  
Allée Charles De Gaulle 20220 ILE ROUSSE FRANCE

To FIRE-IN Coordinator  
Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safecluster.com](mailto:jean-michel.dumaz@safecluster.com)

ILE ROUSSE LE 20 JUIN, 2016

Subject: Application to become an Associated Expert of FIRE-IN

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional or local organizations involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of I&CM Consulting to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Marien SETTI, Expert

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<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Italian Ministry of Interior, Italy (IMI)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services – Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Chief Fire Officer Association, Czech Republic (CFOA)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote its expectations in the research road map
- To have an update of the state of the art and novel technologies concerning its area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners' networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

#### APPLICANT INFORMATION

**Company Legal Name and Short Name (if applicable)**  
I&CM Consulting

**Company Name in English**  
Incident and Crisis management Consulting

**Category:**

- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☒ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

Allée Charles De Gaulle

**Postcode** 20220      **City** ILE ROUSSE

**Country** FRANCE

**Phone** +33-682-272-049

**Web/URL** -

**Main Contact Person** Pat BOTEY

**E-mail** pat.botey.consulting@gmail.com

**Direct Phone** +33-682-272-049

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **DESCRIPTION OF THE ORGANIZATION**

### **Short profile of the organization (max. 10 lines)**

Incident and Crisis Management: Civil Protection & Forest Fire Fighting, Other Crisis.

A graduate of the French Fire Brigade Officers National School and specialized in forest/wildfire fighting and maritime search and rescue.

Holder of training operational management & command course Type 5 (scale: 1 to 5)

Holder of training forest fire, bush fire management & command course Type 5 (scale: 1 to 5)

Holder of Incident Command System course Type 2 (scale: 5 to 1)

Holder of professional diver training course class II B & diving technical adviser Type 3 (scale: 1 to 3)

Holder of chief coastguard rescue training course Type 3 (scale: 1 to 3)

Holder of training adaptation for superior management employment.

3 years trainer at the forest/bush fire French academy for management & command course Type 5.

### **Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster :**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☒ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☒ S.A.R. activities in specific context: Maritime Search&Rescue
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement:**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Interest in complex crisis management methods and finding the best solution to implement.

To share my experience of 40 years of firefighter involved in the management of large-scale incidents, including forest fire fighting, floods...

Also experience in preparing large-scale exercises including different services and agencies.

**Motivation to join the FIRE-IN (max. 10 lines)**

***Please send this application form by email with the application letter to:***

***Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)***

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Tim Cutbill  
169 Union Street London SE1 0LL

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

18th August , 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of London Fire Brigade to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Tim Cutbill

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<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote it expectations in the research road map
- To have an update of the state of the art and novel technologies concerning it area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

---

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

London Fire Brigade trading as London Fire Brigade Enterprises

**Organization Name in English**

London Fire Brigade Enterprises

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☒ Public body at national level
- ☒ Public body at regional or local level
- ☒ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: Click here to enter text.

**Address**

169 Union Street London

**Postcode** SE1 0LL    **City** London

**Country** Essex

**Phone** 02085551200

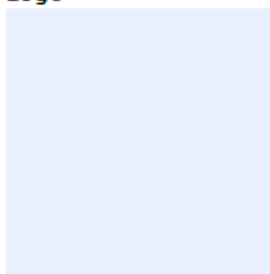
**Web/URL** <http://www.london-fire.gov.uk>; [www.lfbenterprisesltd.co.uk](http://www.lfbenterprisesltd.co.uk)

**Main Contact Person** Tim Cutbill

**E-mail** [tim.cutbill@london-fire.gov.uk](mailto:tim.cutbill@london-fire.gov.uk)

**Direct Phone** 07836558142

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

Experience gained over 150 years in the fire rescue sector is at your disposal. We would like to offer our experience expertise and knowledge to your programme.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☐ Vegetation Fires fighting
- ☒ CBRNE
- ☒ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☒ Emergency Medical Services
- ☒ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☒ Decontamination of persons
- ☐ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☒ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public information and involvement
- ☒ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☒ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

We are part of a group of organisations under the 'umbrella' of the Greater London Authority (GLA).

We are the busiest fire and rescue service in the country and one of the largest firefighting and rescue organisations in the world protecting people and property from fire within the 1587 square kilometres of Greater London.

Our experience obviously covers normal fire and rescue responsibilities including risk modelling, planning, policy writing, community safety, fire safety and operational response. We also specialise in all manner of resilience issues including terrorism.

Recent examples of our work includes the Olympics, Rugby World Cup, ensuring the complex transport infrastructure of a capital city including Crossrail the largest building site in Europe is completed safely and efficiently.

We are also responsible for planning for and the co-ordination of the wider London partnership response to critical incidents. For more information on our relationship with other authorities when preparing for a major incident please visit <http://www.london.gov.uk/about-us/organisations-we-work/london-prepared>;

Established in January 2005 London Fire Brigade Enterprises allows us to offer the above skill sets in a commercial environment. We aim to be the provider of choice for clients who require a world class solution to fire, resilience and community safety related applications, through consultancy, training or direct service delivery.

**Motivation to join the FIRE-IN (max. 10 lines)****Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

Template: First Name FAMILY NAME - Email Address - Phone Number

We employ of 5,000 staff and will provide the relevant expertise dependent on the specific project.

Tim Cutbill is an Assistant Commissioner in London Fire Brigade and also a Director of London Fire Brigade Enterprises.

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 Page 6 of 5
*Application Letter to become Associated Expert for the initiative FIRE-IN*

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

The National Fire Protection Association (NFPA)  
1 Batterymarch Park, Quincy, Massachusetts 02169 USA

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Quincy, MA, USA, 26 July, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM “Pan European Networks of practitioners and other actors in the field of security”<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of the National Fire Protection Association (NFPA) to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,



Lucian H. Deaton, Wildland Fire Operations Division, NFPA

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<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

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The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote its expectations in the research road map
- To have an update of the state of the art and novel technologies concerning its area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners' networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**  
**National Fire Protection Association (NFPA)**

**Organization Name in English**  
**National Fire Protection Association (NFPA)**

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☒ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

1 Batterymarch Park

**Postcode** 02169      **City** Quincy, Massachusetts

**Country** United States of America

**Phone** +1.617.770.3000

**Web/URL** <http://www.nfpa.org/wildfire>

**Main Contact Person** Lucian Deaton

**E-mail** [LDeaton@nfpa.org](mailto:LDeaton@nfpa.org)

**Direct Phone** +1.303.663.5551

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

The [National Fire Protection Association \(NFPA\)](#) is a global nonprofit organization, established in 1896, devoted to eliminating death, injury, property and economic loss due to fire, electrical and related hazards. NFPA delivers information and knowledge through more than 300 consensus codes and standards, research, training, education, outreach and advocacy; and by partnering with others who share an interest in furthering our mission. NFPA membership totals more than 60,000 individuals around the world. NFPA [partners with various organizations around the world](#), equally committed to the global conversation on community based fire management, WUI preparedness, and resident empowerment.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☐ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: *Indicate the contexts of expertise*
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement :**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☐ Incidents management and coordination tasks, Decision making, planning
- ☒ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN***Motivation to join the FIRE-IN (max. 10 lines)**

Our motivation to serve the goals of the FIRE-IN initiative as an Associated Expert is to engage NFPA's information and knowledge concerning wildfire risk reduction activities with this positive European coordination network. NFPA's Firewise Communities Program empowers over 1300 communities of various sizes in the United States with knowledge and purpose to reduce their risk of property loss to wildfire. Since 2006, NFPA has worked closely with partners in Canada, South Africa, the United Kingdom, Spain, Australia, New Zealand, Chile, and Lebanon, as they developed local outreach programs that advocate wildfire risk-reduction activities. Our research focus shares FIRE-IN's effort on both advancing the physical science of structure loss due to wildfire and the social science around community based fire management, resident motivation, and behavioral change.

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

Lucian Deaton  
 Manager  
 Wildland Fire Operations Division  
 National Fire Protection Association (NFPA)  
[LDeaton@nfpa.org](mailto:LDeaton@nfpa.org)  
 +1.303.663.5551

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Application from:  
National Institute for Public Health and the Environment  
Departement for CBRN response

To FIRE-IN Coordinator  
Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Bilthoven, 12 august, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of the National Institute for Public health and the Environment to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,



Cobi de Boer, head of department for CBRN response

---

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote it expectations in the research road map
- To have an update of the state of the art and novel technologies concerning it area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

Rijksinstituut voor Volksgezondheid en Milieu (RIVM); afdeling CBRN responsorganisatie

**Organization Name in English**

National Institute for Public Health and the Environment; department for CBRN response

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☒ Public body at national level
- ☐ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

Antonie van Leeuwenhoeklaan 9

**Postcode** 3721 MA    **City** Bilthoven

**Country** The Netherlands

**Phone** +31 (0)30 274 9111

**Web/URL** [www.rivm.nl](http://www.rivm.nl)

**Main Contact Person** drs. Cobi de Boer

**E-mail** [cobi.de.boer@rivm.nl](mailto:cobi.de.boer@rivm.nl)

**Direct Phone** +31 (0)30 274 4344

**Logo**



Rijksinstituut voor Volksgezondheid  
en Milieu  
Ministerie van Volksgezondheid,  
Welzijn en Sport

*Application Letter to become Associated Expert for the initiative FIRE-IN*

#### **DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT**

##### **Short profile of the organization or the independent expert (max. 10 lines)**

The Dutch National Institute for Public Health and the Environment (RIVM) carries out independent research and provides policy advice to assist them in this task. RIVM works to prevent and control outbreaks of infectious diseases. We promote public health and consumer safety, and we help to protect the quality of the environment.

In the event of an accident or disaster, the role of RIVM is to support national and local government. The RIVM plays an advisory role and is responsible for providing accurate information with the aim of limiting the consequences to human health and the environment.

##### **Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☐ Vegetation Fires fighting
- ☒ CBRNE
- ☐ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: *Indicate the contexts of expertise*
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement:**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public Information and Involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

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During accidents and disasters, people and the environment can be exposed to dangerous materials. Examples of such incidents are large fires, transport accidents, spills or attacks with chemical, radioactive or biological materials. RIVM can support local authorities and emergency response organisations. For this, RIVM has got good contacts with local fire-departments and the Municipal Public Health Services.

RIVM shares information in projects, reports and workshops for emergency response organisations. RIVM would like to join the FIRE IN project to be part of an European network to share our knowledge. In addition, this network of expertise will benefit the local emergency response organisations in the Netherlands

**Motivation to join the FIRE-IN (max. 10 lines)**

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

RIVM has a total of approximately 1500 staff. The CBRN response unit has a total of approximately 120 members. In total, 20 different expertise (e.g. field monitoring, toxicology, dispersion, gastight suit) are on call (24/7) to support national and local governments.

For different subjects, the CBRN response unit has specific experts who can join the FIRE IN project.

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

G.S.A. France  
136 Cours Lafayette 69003 Lyon



**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Lyon, June 21st, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional or local organizations involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of G.S.A France to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Brigadier Gilles C. Glin, Chief executive

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the end.

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the Initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

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- Global Fire Monitoring Centre, Germany (GFMC)
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- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Chief Fire Officer Association, Czech Republic (CFOA)
- InnoTSD, France (Inno)

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During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all over Europe will gather the practitioner's capability gaps.

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- To receive prime information about the project

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Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

#### APPLICANT INFORMATION

**Company Legal Name and Short Name (if applicable)**  
G.S.A France, Groupe Services associés

**Company Name in English**  
G.S.A France, Facility Managment

**Category:**

- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☒ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**  
136 Cours Lafayette

**Postcode** 69003      **City** LYON

**Country** France

**Phone** 0033472043902

**Web/URL** <http://www.grupposerviziassociati.it/it/>

**Main Contact Person** Giles C. Glin

**E-mail** gillesglin@gmail.com

**Direct Phone** 0033682562884

**Logo**



#### DESCRIPTION OF THE ORGANIZATION

**Short profile of the organization (max. 10 lines)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**G.S.A. designs specific customized services** for each individual situation/facility at fire risk. By planning costs and programming activities, G.S.A. becomes a reliable global service partner. G.S.A. is a leader in the national and European fire safety and road rescue services on roads, highways and tunnels, as well as in heliports and aerodromes fire protection. **GSA is also a key player in fire safety services** for health care facilities

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster :**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☐ Vegetation Fires fighting
- ☐ CBRNE
- ☐ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☒ Emergency Medical Services
- ☐ S.A.R. activities in specific context: *Indicate the contexts of expertise*
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☒ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

**Motivation to join the FIRE-IN (max. 10 lines)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Tacking advantages of a rich experience in high level managements, I am dedicated to offer my work experience, my analysis skill and organization talent, my pragmatic, innovative and accurate abilities to an EU entity.

***Please send this application form by email with the application letter to:***

***Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)***

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Forest Research Institute Baden-Württemberg(Germany)  
Wonnhaldestr. 4, D-79100 Freiburg

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

[Location, Date], 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of Forest Research Institute to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,



Dr. Christoph Hartebrodt

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<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

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- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
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- The Main School of Fire Services, Poland (SGSP)
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- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

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- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

#### APPLICANT INFORMATION

**Organization Legal Name and Short Name (if applicable)**

**Forstliche Versuchs- und Forschungsanstalt Baden-Württemberg; FVA**

**Organization Name in English**

**Forest Research Institute Baden-Württemberg (Germany); FVA**

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☒ Public body at regional or local level
- ☐ Private company
- ☒ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

Wonnhaldestraße 4

**Postcode** D-79100    **City** Freiburg

**Country** Germany

**Phone** +49 761 7018 0

**Web/URL** <http://www.fva-bw.de/>

**Main Contact Person** Dr. Christoph Hartebrodt

**E-mail** [Christoph.hartebrodt@forst.bwl.de](mailto:Christoph.hartebrodt@forst.bwl.de)

**Direct Phone** +49 761 4018 262

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

The Forest Research Institute Baden-Wuerttemberg (FVA) is the research facility of the German state Baden-Wuerttemberg and is therefore assigned to the Ministry for Nutrition and Rural areas in Stuttgart. A close and mutual cooperation within the framework of the so-called "Freiburg-Model" exists between the FVA and the Faculty for Forest and Environmental Science at the Albert-Ludwigs-University in Freiburg. However, whilst the university carries out predominantly basic research, the FVA administers practical research and development for the Forest Service and forest enterprises. Many projects are thus carried out in close cooperation with the other Forest Research Institutes in Germany or neighboring countries (e.g. Austria or Switzerland). In addition, university institutes in, and outside of Freiburg are regularly amongst the partners of the FVA. Additionally, employees of the FVA are represented in numerous national and international consultation and decision-making bodies.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☐ Vegetation Fires fighting
- ☐ CBRNE
- ☒ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: *Indicate the contexts of expertise*
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement:**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public Information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

The Department of Forest Economics is the leading institution in practical forest crisis management in Germany and coordinates the German forest Risk Network, named KoNeKKTiW. KoNeKKTiW is a joint project that aims to support the forestry sector overcome hindrances that currently inhibit the further development and adaption of forest ecosystems to changing climate conditions. We employ methods such as capacity building, social learning and proactive risk management to reclaim existing knowledge and make it suitable for implementation in the practice. Because knowledge alone does not inevitably lead to action, awareness-raising is essential to sensitize decision-makers to the necessity of proactive risk management. We run an online manual Forest Crisis Management Advisory guide, which is partially available in English language too: "[Adaption, Risk and Crisis Management](#)". We participated in the Forest Risk Facility Project of the European Forest Institute. Our key motivation is to promote exchange of knowledge in Europe, as we see this as a perfect way to produce significant synergies between institutions involved in this topic.

**Motivation to join the FIRE-IN (max. 10 lines)****Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

Template: First Name FAMILY NAME - Email Address - Phone Number

Dr Christoph HARTEBRODT, [christoph.hartebrodt@forst.bwl.de](mailto:christoph.hartebrodt@forst.bwl.de), +49 761 4018 262

Yvonne CHTIOUI, [yvonne.chtioui@forst.bwl.de](mailto:yvonne.chtioui@forst.bwl.de), +49 761 4018 264

Sebastian SCHMACK, [sebastian.schmack@forst.bwl.de](mailto:sebastian.schmack@forst.bwl.de), +49 761 4018 459

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Campus Vesta APB  
Oostmalsesteenweg 75, 2520 Ranst, Belgium

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Ranst, 24 June, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

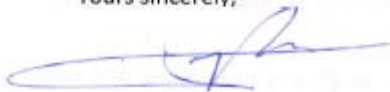
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Herewith, I apply on behalf of [full name of the organization] to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,



Luc Heylen, Director Fire fighter Training & Education

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

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- Italian Ministry of Interior, Italy (IMI)
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- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
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- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (SRC)
- The Main School of Fire Services – Poland (MSFS)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
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Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Company Legal Name and Short Name (if applicable)**  
Campus Vesta APB

**Company Name in English**  
Campus Vesta APB

**Category:**

- ☐ European commission or agency
- ☐ Public body at national level
- ☒ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: Click here to enter text.

**Address**  
Oostmalsesteenweg 75

**Postcode** 2520      **City** Ranst

**Country** Belgium

**Phone** Click here to enter text.      **Web/URL** [www.campusvesta.be](http://www.campusvesta.be)

**Main Contact Person** Luc Heylen

**E-mail** [luc.heylen@campusvesta.be](mailto:luc.heylen@campusvesta.be)      **Direct Phone** +3232051964

**Logo**



**DESCRIPTION OF THE ORGANIZATION**

**Short profile of the organization (max. 10 lines)**

*Application Letter to become Associated Expert for the Initiative FIRE-IN*

See attached description

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster :**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☒ CBRNE
- ☒ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☒ Emergency Medical Services
- ☒ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☒ Decontamination of persons
- ☒ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☒ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public information and involvement
- ☒ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☒ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

**Motivation to join the FIRE-IN (max. 10 lines)**

As a Multidisciplinary Organisation for Training and Education with a Research Department and a large infrastructure for testing, exercises and demonstrations, we are interested in and support the creation of a network that will serve research, innovation and standardization purposes and generate recommendations on the uptake of promising solutions, which meet the needs of practitioners dealing with Fire and Rescue.

**Application from:**

Bombers. Consorci Provincial de València. BCV  
*Metropolitan Fire Brigade of València*  
Camí de Moncada, 24  
46009 València  
Spain

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: jean-michel.dumaz@safeccluster.com

Valencia, 27/07/2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of Pau Costa Foundation to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Manuel Alonso Herrerías. Fire Officer.

Bombers. Consorci Provincial de València. BCV

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<sup>1</sup><http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM “Pan European Networks of practitioners and other actors in the field of security” is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all over Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will be organized through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Expert are:

- To contribute to the European strategic research agenda and promote its expectations in the research road map
- To have an update of the state of the art and novel technologies concerning its area of interest
- To evaluate research project and technology developments
- To have a privileged window to exchange with practitioners' networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

## APPLICANT INFORMATION

### Organization Legal Name and Short Name (if applicable)

Bombers. Consorci Provincial de València. BCV

### Organization Name in English

Metropolitan Fire Brigade Of València

### Category:

Public body at regional or local level

### Address

Camí de Moncada, 24

Postcode 46009 City València

Country Spain

Phone: 34963469800

Web/URL [www.bombersdv.es](http://www.bombersdv.es)

Main Contact Person Manuel Alonso Herrerías. Fire Officer.

E-mail [malonso@bombersdv.es](mailto:malonso@bombersdv.es)

Direct Phone 34963469800

### Logo



## DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT

### Short profile of the organization or the independent expert (max. 10 lines)

Fire Officer. 28 years of experience in fire services. Chemical engineer. Expert in enclosure fires and CBRNE. Master teacher in civil protection at the University of Valencia.

### Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- Structure Fires fighting
- CBRNE
- Transportation accidents

**People rescue:**

- Decontamination of persons

**Security/ Law enforcement** : no

**Coordination, command and control, situation assessment**

- Incidents management and coordination tasks, Decision making, planning

**Supply and/or restoration of basic infrastructures** : no

**Motivation to join the FIRE-IN (max. 10 lines)**

The primary reason that I considered to join this initiative is my desire to share knowledge with other European Colleagues.

There are working groups in different countries studying similar topics, but without sharing information.

Initiatives like this are good at giving the opportunity to join forces in a common goal.

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project**

**(if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

Click here to enter text.

\*This list is not contractual

***Please send this application form by email with the application letter to:***

***Jean-Michel Dumaz, jean-michel.dumaz@safeccluster.com***

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Mark Jones

Independent expert

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ

SAFE CLUSTER

Bâtiment Henri Poincaré

Domaine du Petit Arbois

Avenue Louis Philibert - BP 10028

13545 Aix en Provence Cedex - France

Email: [jean-](mailto:jean-michel.dumaz@safecluster.com)

[michel.dumaz@safecluster.com](mailto:michel.dumaz@safecluster.com)

[Canberra](#), 23 August, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of Mark Jones to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Mark Jones

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<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

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- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.



*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

Mark Jones

**Organization Name in English**

Click here to enter text.

**Category:**

- ☒ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: Click here to enter text.

**Address**

58/28 Mort Street

**Postcode** 2612

**City** Braddon

**Country** Australia

**Phone** +447803958688

**Web/URL** Click here to enter text.

**Main Contact Person** Mark jones

**E-mail** marksjones@btinternet.com

**Direct Phone** Click here to enter text.

**Logo**

*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

I am applying to be involved as an independent expert. I have a long experience as a professional Fire Chief in the United Kingdom, including a range of emergency management and planning skills, and managing fires and disasters (all types) as senior commander and executive. I have worked on a number of EU and UK projects and have developed a wide range of experience including as an adviser to governments.

I currently work for the Australian Capital Territory government as a director within its Emergency Services Agency in which I am tasked with delivering a range of strategic Reforms in the delivery of emergency services. I have chaired, or served on, a number of international committees dealing with a range of risks, especially wildfire and disaster planning.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☒ CBRNE
- ☒ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☒ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Having developed the skills and expertise I possess, I am motivated by a desire to share them with others. As emergencies decline in frequency, a risk exists that new managers and planners may not have been exposed to the widest range of possibilities. Initiatives such as this one enable learning to be shared and captured for those who follow us.

I have enjoyed working with other experts in the field of emergency management for a long time and feel that my international experience, coupled to a long career in emergency management will add value to the project. I also favour a research driven approach to policy development and this project offers that possibility.

**Motivation to join the FIRE-IN (max. 10 lines)**

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

Template: First Name FAMILY NAME - Email Address - Phone Number

Mark Jones

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

EFFECTIS HOLDING

Bâtiment Apollo, Espace Technologique, Route de l'Orme des Merisiers, 91193 SAINT AUBIN

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ

SAFE CLUSTER

Bâtiment Henri Poincaré

Domaine du Petit Arbois

Avenue Louis Philibert - BP 10028

13545 Aix en Provence Cedex - France

Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Saint Aubin, 12th August, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of [Full name of the organization] to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Daniel JOYEUX, President



EFFECTIS HOLDING  
Président du Directoire  
Daniel JOYEUX

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

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- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

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Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

#### APPLICANT INFORMATION

**Organization Legal Name and Short Name (if applicable)**

**EFFECTIS HOLDING**

**Organization Name in English**

Click here to enter text.

**Category:**

- ☒ **Independent Expert**
- ☐ **European commission or agency**
- ☐ **Public body at national level**
- ☐ **Public body at regional or local level**
- ☒ **Private company**
- ☐ **Research / University**
- ☐ **NGO / Association**
- ☐ **Other:** Click here to enter text.

**Address**

Bâtiment Apollo - Espace Technologique - Route de l'Orme des Merisiers

**Postcode** 91193

**City** Saint Aubin

**Country** France

**Phone** +33160138381

**Web/URL** www.effectis.com

**Main Contact Person** Daniel JOYEUX

**E-mail** daniel.joyeux@effectis.com

**Direct Phone** +33607027076

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT**

### **Short profile of the organization or the independent expert (max. 10 lines)**

Effectis is a third party dedicated to all fire safety science and expertise in testing, inspection modeling, inspection and certification. Based on its 60 years of experience, from small scale to large scale, from materials to construction, Effectis is assessing the fire performance of products, systems or entire projects, whatever the domain (nuclear, transportation, dwellings, infrastructure, tunnels, high rise buildings, industrial process and storage, offices, ...) whatever is the performance (fire resistance, reaction to fire, extinguishing systems, equipments, firefighting devices,...). Effectis is based in France, The Netherlands, Turkey and Spain, with high relationship with ministries in charge of fire safety. Effectis is key global player developing relation between of the safety actors (builders, owners, fire fighters, authorities, manufacturers, ...).

### **Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☐ Vegetation Fires fighting
- ☒ CBRNE
- ☐ Natural Disasters
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- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☐ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Efectis is a scientific company in charge of developing new concepts of safety resilience, including all the parties from the conception to the intervention. Efectis is developing with its partner IFOPSE (EDF subsidiary in charge of the training conditions of firefighters on Nuclear Power Plant) the CFBT international concept in France with the ability to upgrade the level of firefighting conditions taking into account the new risks in construction. Efectis is joining a research group for assessing the new model of firefighting, with Paris FireFighters (BSPP) and Paris scientific laboratory (LCPP). Efectis participating to a french-German research called Re(h)strain concerning the resilience of the franco-german high speed train network.

The knowledge and the experience of Efectis as fire science with global safety, in construction as well as in energy plant (Nuclear Plant) should carry out specific added value to the current group.

**Motivation to join the FIRE-IN (max. 10 lines)****Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

Template: First Name FAMILY NAME - Email Address - Phone Number

Daniel JOYEUX – [daniel.joyeux@efectis.com](mailto:daniel.joyeux@efectis.com) – 00 33 6 07 02 70 76

Franck GAVIOT-BLANC – [franck.gaviotblanc@efectis.com](mailto:franck.gaviotblanc@efectis.com) – 00 33 6 32 76 92 37

René DE FEIJTER – [rene.defeijter@efectis.com](mailto:rene.defeijter@efectis.com) – 00 31 6 53 44 78 04

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Fire Rescue Brigade of Olomouc Region  
Schweitzerova 91, 779 00 Olomouc, Czech Republic

To FIRE-IN Coordinator  
Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Olomouc, July 18th, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

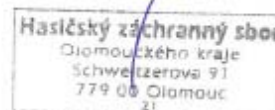
The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of Fire Rescue Brigade of Olomouc Region to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Col. Dipl. Ing. Karel Kolářík; Chief Fire Officer



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<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

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- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

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Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

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- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

#### **APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

**Hasičský záchranný sbor Olomouckého kraje (HZS Olomouckého kraje)**

**Organization Name in English**

**Fire Rescue Brigade of Olomouc Region**

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☒ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: Click here to enter text.

**Address**

Schweitzerova 91

**Postcode** 779 00      **City** Olomouc

**Country** Czech Republic

**Phone** 00420 950 770 205

**Web/URL** <http://www.hzscr.cz/hzs-olomouckeho-kraje.aspx>

**Main Contact Person** Ing. Eva Havlenova

**E-mail** [eva.havlenova@hzsol.cz](mailto:eva.havlenova@hzsol.cz)

**Direct Phone** 00420 950 770 205

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

Primary mission of the Fire Rescue Brigade of Olomouc Region is to protect life, health and property of citizens against fire and to provide effective assistance in emergencies. Main activities are especially state fire supervision, interventions in firefighting, liquidation of consequences of natural disasters and of other emergencies, preventive educational activities, population protection and providing of humanitarian assistance. Fire Brigade is a core component of the integrated rescue system and plays an important role in crisis preparedness of the Olomouc Region

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☒ CBRNE
- ☒ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☒ Emergency Medical Services
- ☒ S.A.R. activities in specific context: SAR of persons from collapsed structures and from water
- ☒ Decontamination of persons
- ☐ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☒ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the Initiative FIRE-IN*

**Motivation to join the FIRE-IN (max. 10 lines)**

Fire Brigade Olomouc Region is actively involved in developing new technologies and knowledge for rescue operations during various emergencies. Involving members have extensive experience with practical activities, many of them have been involved in research projects. Fire Brigade, having regard to a range of activities to contribute to the development of professional dialogue between the various entities and professional networks. Fire Brigade see the benefits of the project to enhance the safety of EU citizens.

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

Dipl.Ing. Karel Kolářik, [karel.kolarik@hzsol.cz](mailto:karel.kolarik@hzsol.cz), +420 950 770 020  
 Dipl.Ing. Jan Ondruch, [jan.ondruch@hzsol.cz](mailto:jan.ondruch@hzsol.cz), +420 950 770 305  
 Bc. Martin Daniš, [martin.danis@hzsol.cz](mailto:martin.danis@hzsol.cz), +420 950 770 317  
 Dipl.Ing. Marek Sobek, [marek.sobek@hzsol.cz](mailto:marek.sobek@hzsol.cz), +420 950 775 065

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safecluster.com](mailto:jean-michel.dumaz@safecluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Frederiksborg Fire & Rescue Service  
Løgismose 3, 3600 Frederikssund, Denmark

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Frederikssund 23rd June, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.


The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional or local organizations involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of [full name of the organization] to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Kim Lintrup, Chief Fire Officer  
Frederiksborg Brand og Redning

 Løgismose 3  
3600 Frederikssund  
Tlf.: 4737 6100 CVR: 37 22 21 35

EAN: 5798008058158

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Italian Ministry of Interior, Italy (IMI)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services – Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Chief Fire Officer Association, Czech Republic (CFOA)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote it expectations in the research road map
- To have an update of the state of the art and novel technologies concerning it area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Company Legal Name and Short Name (if applicable)**

**Frederiksborg Brand & Redning - FBBR**

**Company Name in English**

**Frederiksborg Fire & Rescue Service**

**Category:**

- ☐ European commission or agency
- ☐ Public body at national level
- ☒ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: Click here to enter text.

**Address**

Løgismose 3

**Postcode** 3600

**City** Frederikssund

**Country** Denmark

**Phone** +45 4737 6100

**Web/URL** www.fbbr.dk

**Main Contact Person** Kim Lintrup

**E-mail** klint@frederikssund.dk – new e-mail from 1. September 2016 klint@fbbr.dk

**Direct**

**Phone** +45 4737 6101

**Logo**



FREDERIKSBORG  
**BRAND & REDNING**

*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION****Short profile of the organization (max. 10 lines)**

Frederiksborg Fire & Rescue Service provides fire and rescue services to municipalities of Frederikssund, Halsnaes, Hilleroed, Gribskov, Egedal and Furesoe in the centre of the island of Seeland, in Denmark. The six municipalities are home to approximately 250.000 inhabitants, who live within a land area of 1058 square miles. The fire department's key activities and responsibilities include responding to and preventing; fires, road accidents, flooding, fires at sea, hazardous material and chemical incidents, major incidents including terrorist attacks, boat preparedness and providing other humanitarian services such as rescuing casualties from a variety of emergency scenarios. Like all fire and rescue services in Denmark.

Frederiksborg Fire & Rescue Service's operational activities are overseen at the national level by the Ministry of Defence. Frederiksborg Fire & Rescue Service has long term strategic aims of providing the social, economic and environmental well-being of the residents of the six municipalities. Central to this is a focus on preventing fires and other emergencies from happening and in doing so reducing death, injury and damage to property.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster :**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☒ CBRNE
- ☒ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☒ S.A.R. activities in specific context: we assist but it is not our core mission
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☒ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☒ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Frederiksborg Fire & Rescue Service is very interested in joining this initiative as we have great knowledge within fire and rescue activities, civil protection and disaster management. We can use this knowledge in contributing with identified the capability gaps and sharing of best practices. Furthermore we see the positive outcome of joining together practitioners and suppliers and academics in a fruitful cooperation. We are always eager to learn more and be updated on the state of the art. We have participated in several EU projects and have great experience in that connection. One of our ongoing projects Gaps to Caps (Risk Management Capability Based on Gaps Identification in the BSR) is an example on such experience we can use.

**Motivation to join the FIRE-IN (max. 10 lines)**

***Please send this application form by email with the application letter to:***

***Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)***

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

**Regional Fire Monitoring Center (RFMC)**

Str. Rimska 11b, 1000 Skopje, Republic of Macedonia

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ

SAFE CLUSTER

Bâtiment Henri Poincaré

Domaine du Petit Arbois

Avenue Louis Philibert - BP 10028

13545 Aix en Provence Cedex - France

Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Skopje, 25 June 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional or local organizations involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of [full name of the organization] to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,



Nikola Nikolov, Head of the Regional Fire Monitoring Center (RFMC)

---

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Italian Ministry of Interior, Italy (IMI)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services – Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Chief Fire Officer Association, Czech Republic (CFOA)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote it expectations in the research road map
- To have an update of the state of the art and novel technologies concerning it area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Company Legal Name and Short Name (if applicable)**

Здружение на граѓани Регионален Центар за Следење Шумски Пожари Скопје

**Company Name in English**

Regional Fire Monitoring Center (RFMC)

**Category:**

- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☐ Private company
- ☒ Research / University
- ☐ NGO / Association
- ☒ Other: Training and Science-Policy Interface

**Address**

Str. Rimska 11b

**Postcode** 1000

**City** Skopje

**Country** Republic of Macedonia

**Phone** +389 70 335 795

**Web/URL** [www.rfmc.mk](http://www.rfmc.mk)

**Main Contact Person** Nikola Nikolov

**E-mail** [nnikolov@rfmc.mk](mailto:nnikolov@rfmc.mk) and [nnikolov@sf.ukim.edu.mk](mailto:nnikolov@sf.ukim.edu.mk)

**Direct Phone** +389 70 335 795

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION****Short profile of the organization (max. 10 lines)**

The Regional Fire Monitoring Center has been established at 2010 year, supported by the Global Fire Monitoring Center (GFMC) and the Council of Europe (CoE / EUR-OPA). The RFMC is serving as a center-of-excellence of the Regional Southeast Europe / Caucasus Wildland Fire Network. The main mission of the RFMC is initiation and conduction (on national and international level) of collaboration in the field of forest fire protection, especially: methodology and procedure for the establishment of a wildland fire database, information exchange, wildfire prevention and use of fire (Community-Based Fire Management – CBFIM), early warning, detection and monitoring, wildland fire suppression, capacity building / training courses, policies, legislation and strategies and research.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster :**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☐ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: *Indicate the contexts of expertise*
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☒ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Motivation to join the FIRE-IN (max. 10 lines)**

The RFMC is interested to take part in development of the European strategic fire research and innovation agenda and promote its expectations in the regional research road map; to get information on novel technologies in fire management; to develop close collaboration with practitioners networks, research and industry representatives and have better networking opportunities with EU experts.

*Please send this application form by email with the application letter to:*

*Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)*

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Fire Rescue Brigade of Moravian - Silesian Region  
Vyskovická 40, 700 30 Ostrava, Czech Republic

To FIRE-IN Coordinator  
Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safecluster.com](mailto:jean-michel.dumaz@safecluster.com)

Ostrava, August 09th, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of Czech Republic - Fire Rescue Brigade of Moravian - Silesian Region to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Col. Dipl. Ing. Zdenek Nytra; Chief Fire Officer

Hasičský záchranný sbor  
Moravskoslezského kraje  
Výžkovická 40  
700 30 Ostrava - Zábřeh  
1

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **Application form to join the initiative FIRE-IN as an Associated Expert**

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all over Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will be organized through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Expert are:

- To contribute to the European strategic research agenda and promote its expectations in the research road map
- To have an update of the state of the art and novel technologies concerning its area of interest
- To evaluate research project and technology developments
- To have a privileged window to exchange with practitioners' networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## **APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

**Česká republika - Hasičský záchranný sbor Moravskoslezského kraje (HZS MSK)**

**Organization Name in English**

**Czech Republic – Fire Rescue Brigade of Moravian - Silesian Region**

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☒ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: Click here to enter text.

**Address**

Vyskovička 40

**Postcode** 700 30      **City** Ostrava

**Country** Czech Republic

**Phone** 00420 950 730 300  
kraje.aspx

**Web/URL** [http://www.hzscr.cz/hzs-moravskoslezskeho-](http://www.hzscr.cz/hzs-moravskoslezskeho-kraje.aspx)

**Main Contact Person** Dipl. Ing. Vladimír Vlcek, Ph.D.

**E-mail** vladimir.vlcek@hzsmsk.cz

**Direct Phone** 00420 950 730 300

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

Primary mission of the Fire Rescue Brigade of Moravian - Silesian Region is to protect life, health and property of citizens against fire and to provide effective assistance in emergencies. Main activities are especially state fire supervision, interventions in firefighting, liquidation of consequences of natural disasters and of other emergencies, preventive educational activities, population protection and providing of humanitarian assistance. Fire Brigade is a core component of the integrated rescue system and plays an important role in crisis preparedness of the Moravian - Silesian region.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☒ CBRNE
- ☒ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☒ Emergency Medical Services
- ☒ S.A.R. activities in specific context: SAR of persons from collapsed structures and from water
- ☒ Decontamination of persons
- ☐ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☒ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Fire Rescue Brigade of Moravian - Silesian Region is actively involved in developing new technologies and knowledge for rescue operations during various emergencies. Involving members have extensive experience with practical activities, many of them have been involved in research projects. Fire Brigade, having regard to a range of activities to contribute to the development of professional dialogue between the various entities and professional networks. Fire Brigade see the benefits of the project to enhance the safety of EU citizens.

**Motivation to join the FIRE-IN (max. 10 lines)****Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

Template: First Name FAMILY NAME - Email Address - Phone Number

Dipl. Ing. Zdeněk Nytra,	<a href="mailto:zdenek.nytra@hzsmk.cz">zdenek.nytra@hzsmk.cz</a> ,	00420 950 730 301
Dipl. Ing. Radim Kuchař,	<a href="mailto:radim.kuchar@hzsmk.cz">radim.kuchar@hzsmk.cz</a> ,	00420 950 730 316
Dipl. Ing. Jan Bojko,	<a href="mailto:jan.bojko@hzsmk.cz">jan.bojko@hzsmk.cz</a> ,	00420 950 730 303
Dipl. Ing. Martin Nekula,	<a href="mailto:martin.nekula@hzsmk.cz">martin.nekula@hzsmk.cz</a> ,	00420 950 730 354

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

Sydøstjyllands Brandvæsen  
mail@sojbv.dk

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

<mailto:mail@sojbv.dk>

Horsens, Juli 7, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of Sydøstjyllands Brandvæsen to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Dennis Ottosen - director

---

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote its expectations in the research road map
- To have an update of the state of the art and novel technologies concerning its area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners' networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**  
Sydøstjyllands Brandvæsen - SOJBV

**Organization Name in English**  
South East Jutland – Fire Services

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☒ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

Endelavevej 5

**Postcode** 8700      **City** Horsens

**Country** Denmark

**Phone** +4576292770      **Web/URL** [www.sojbv.dk](http://www.sojbv.dk)

**Main Contact Person** Dennis Ottosen

**E-mail** [do@sojbv.dk](mailto:do@sojbv.dk)      **Direct Phone** +4540382601

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

We are a local based Fire & Rescue service covering 2 municipalities in Denmark. Based on a combination of full-time and retained firefighters, we have around 1000 different calls pr. year. Our main goal is to keep developing our way of working, with a main focus on the safety and work environment of our firefighters.

We have a continuous search for new ways and applications to help us work smarter and more efficient, whilst keeping our crews safe.

Our participants will be from the management and with a yearlong experience with both training of firefighters and a solid experience as on-scene commanders. One of them also has experience from other projects under the EU.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☒ CBRNE
- ☒ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement :**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☐ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Our motivation comes from a constant demand to develop the way we think and work, combined with a economic demand to cut our costs.

As we are a small organization, we believe our biggest development gains comes from being part of a bigger setup, covering both the public and private sector. Already we have a large experience from developing both our workways and our tools and materials.

**Motivation to join the FIRE-IN (max. 10 lines)****Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

Rene Maegaard Hemberg – [rmh@sojbv.dk](mailto:rmh@sojbv.dk) - +4551589979

Dennis Ottosen – [do@sojbv.dk](mailto:do@sojbv.dk) - +4540382601

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

DIRECTORATE GENERAL OF CIVIL PROTECTION AND EMERGENCIES  
C/ Quintiliano, 21, 28002 Madrid(Spain)

To FIRE-IN Coordinator  
Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Madrid, 26 JUL, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

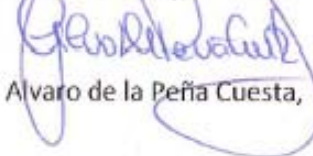
I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of DIRECTORATE GENERAL OF CIVIL PROTECTION AND EMERGENCIES to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,



Alvaro de la Peña Cuesta, Deputy Director and International Coordinator



<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote its expectations in the research road map
- To have an update of the state of the art and novel technologies concerning its area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

**General Directorate of Civil Protection and Emergencies. Ministry of Interior (DGPCE)**

**Organization Name in English**

**General Directorate of Civil Protection and Emergencies (DGPCE)**

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☒ Public body at national level
- ☐ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: Click here to enter text.

**Address**

C/Quintiliano 21,

**Postcode** 28002

**City** Madrid

**Country** SPAIN

**Phone** +349153700

**Web/URL** <http://www.proteccioncivil.es/>

**Main Contact Person** Alavro de la Peña Cuesta

**E-mail** [apenac@procivil.mir.es](mailto:apenac@procivil.mir.es)

**Direct Phone** 0034 915373302

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

DGPCE is a public body that belongs to the Ministry of Interior, which is aimed both at study and prevention of serious collective risk situations, and management of natural and manmade disasters. It supports the head of the Ministry of Interior as a driving force in planning and coordination of the Civil Protection system, including agents of the Autonomous Regions and of the municipalities in accordance with the Law 17/2015, 9 July, on the National System of Civil Protection.

DGPCE is responsible for approving national risk plans of Civil Protection against natural and manmade hazards of different sources. Those include forest fires, the analysis of risk situations and their effects in order to protect human lives and prevent or reduce material damages. It also assists institutional bodies competent in the planning and implementing of measures for the restoration of essential public services, required to bring normality back to those affected.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☒ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Spain suffers every summer emergencies caused by forest fires. The DGPCE is responsible at national level for making proposals for setting up national plans, by identifying gaps or areas in which improvements can be made. This is only possible by accessing to the most recent developments and discussions made inside the initiatives in which the human expertise and knowledge and the most advanced technological and information system tools share the same space.

**Motivation to join the FIRE-IN (max. 10 lines)**

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

Angela Iglesias Rodrigo. Forest Engineer. aiglesias@procivil.mir.es +3491537521

Miguel Tome de la Vega. Head of Natural Risk Service mtvega@procivil.mir.es +34 915373221

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

CENTRO OPERATIVO REGIONAL PLAN INFOCA  
CONSEJERÍA DE MEDIO AMBIENTE Y ORDENACIÓN DEL TERRITORIO  
JUNTA DE ANDALUCÍA  
IAV. MANUEL SIUROT, 50  
SEVILLA 41013

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Seville, July the 29<sup>th</sup>, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

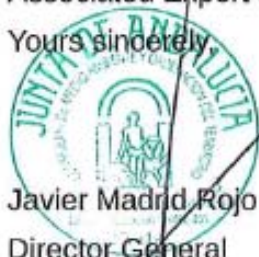
I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of Centro Operativo Regional - Plan INFOCA to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,



Javier Madrid Rojo  
Director General

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

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Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

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The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote it expectations in the research road map
- To have an update of the state of the art and novel technologies concerning it area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

CENTRO OPERATIVO REGIONAL DEL PLAN INFOCA - JUNTA DE ANDALUCIA / INFOCA

**Organization Name in English**

ANDALUSIA STATE REGIONAL CENTER FOR THE WILDFIRE PREVENTION AND SUPPRESSION SERVICE

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☒ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: Click here to enter text.

**Address**

AV. MANUEL SIUROT, 50, 2º. COR.

**Postcode** 41013      **City** SEVILLA

**Country** SPAIN

**Phone** +34955003587.

**Web/URL**

[www.juntadeandalucia.es/medioambiente/site/portalweb/](http://www.juntadeandalucia.es/medioambiente/site/portalweb/)

**Main Contact Person** FRANCISCO SENRA

**E-mail** francisco.senra.ext@juntadeandalucia.es

**Direct Phone** +34670941278

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

INFOCA is the Wildfire Suppression and Prevention Public Service for the Andalusia State. Created in 1993 is one of the most experienced wildfire Services in Spain, protecting 8,8 million hectares from fires. With an overall budget of 160 million € and 4,500 personnel or 36 air resources, among others, deals every year with an average of 1.000 wildfires, some of them with extreme fire behavior.

About the main independent experts. (1) Manuel Delgado Calderón is a forest engineer, he is the vice principal for the Regional INFOCA office. (2) Both Carlos Ruiz and (3) Francisco Senra are wildfire analyst with more than 15 years of experience with fires. They have covered several positions (type I crew boss, air traffic controller, incident command post assessor, etc) both out and within Andalusia. Besides this expertise, they two have conducted an extensive academic program, with Masters in Fire Management and also in Civil Emergencies. Francisco also got his Phd in prescribed burning management. (4) Antonio Santiago Gahette He is Agronomist Engineer, specialist in Hydrology and Natural Risks and he is now the Head of the Risks Analysis Unit of the Wildfires and Emergencies Department in AMAYA. This unit is mainly in charge of giving support to the operational units providing the best information technically based to the actions developed.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☒ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement:**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public Information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

## *Application Letter to become Associated Expert for the initiative FIRE-IN*

### **Motivation to join the FIRE-IN (max. 10 lines)**

All specified in the “benefits for becoming an expert” section. Our wildfire professional Service is one of the most consolidated wildfire prevention and suppression public organizations of Spain. We have experience to share, both as Public Service and from our personnel. At the same time we need to be updated in order to keep improving. We consider that being part of the initiative FIRE-IN network may be positive for both parts.

In these last years we have developed the wildfire analyst unit, formed by long experienced wildfire technicians. These two persons will be involved with the project.

### **Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

Francisco SENRA RIVERO – [francisco.senra.ext@juntadeandalucia.es](mailto:francisco.senra.ext@juntadeandalucia.es) – 670 941 278.

Carlos RUIZ GUTIÉRREZ – [carlos.ruiz.ext@juntadeandalucia.es](mailto:carlos.ruiz.ext@juntadeandalucia.es) – 671 561 737

Manuel DELGADO CALDERÓN – [manuel.delgado.calderon@juntadeandalucia.es](mailto:manuel.delgado.calderon@juntadeandalucia.es) – 955003587

Antonio SANTIAGO GAHETTE – [asantiago@agenciamedioambienteyagua.es](mailto:asantiago@agenciamedioambienteyagua.es) – 670 945 153

\*This list is not contractual

***Please send this application form by email with the application letter to:***

***Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)***

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

VAERSA Grup

Avenida Corts Valencianes, nº 20 46015 Valencia, SPAIN

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ

SAFE CLUSTER

Bâtiment Henri Poincaré

Domaine du Petit Arbois

Avenue Louis Philibert - BP 10028

13545 Aix en Provence Cedex - France

Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Valencia, 20 of July, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of Valenciana d'Aprofitament Energètic de Residus S.A (VAERSA Grup) to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Vicent Garcia i Llorens, CEO of VAERSA



<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all over Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will be organized through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

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- To contribute to the European strategic research agenda and promote its expectations in the research road map
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- To evaluate research project and technology developments
- To have a privileged window to exchange with practitioners' networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN***APPLICANT INFORMATION****Organization Legal Name and Short Name (if applicable)****Valenciana d'Aprofitament Energètic de Residus, S.A (VAERSA)****Organization Name in English**

Click here to enter text.

**Category:**

- ☐ Independent Expert  
☐ European commission or agency  
☐ Public body at national level  
☒ Public body at regional or local level  
☐ Private company  
☐ Research / University  
☐ NGO / Association  
☐ Other: Click here to enter text.

**Address**

Avenida Corts Valencianes nº 20

**Postcode** 46015**City** Valencia**Country** SPAIN**Phone** 961971900**Web/URL** www.vaersa.com**Main Contact Person** Ana Rodriguez Iñiguez**E-mail** anarodriguez@vaersa.com**Direct Phone** +34 961971920**Logo**

*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**About the organization:

It is a public organization that works, among other things, in the field of environmental management and forest fire prevention.

About the experts:

Forest Engineers, Masters in Forest Fires, Science and Integral Management (MasterFuego).  
Fire behavior analysts, with more than 10 years of experience in the field of forest fires management.  
Extensive knowledge in meteorology, remote sensing, GIS, and fire prevention management.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☐ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement:**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☐ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Motivation to join the FIRE-IN (max. 10 lines)**

Click here to enter text.

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

Template: First Name FAMILY NAME - Email Address - Phone Number

Jose Luis Soriano Sancho – [jsoriano@vaersa.org](mailto:jsoriano@vaersa.org) - +34 629452148

Miguel Ángel Botella Martínez – [miguelbotella@vaersa.org](mailto:miguelbotella@vaersa.org) - +34 620223481

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

Application from:  
[Croatian Firefighting Association]  
HR- 10 000 Zagreb, [Selska cesta 90 a ]

To FIRE-IN Coordinator  
Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safecluster.com](mailto:jean-michel.dumaz@safecluster.com)

[Zagreb, 16.8., 2016]

Subject: Application to become an Associated Expert of FIRE-IN

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of [Croatian Firefighting Association to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Željko Popović, Head of the Croatian Firefighting Association]



<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

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- To have an update of the state of the art and novel technologies concerning it area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

CHrvatska vatrogasna zajednica, HVZ

**Organization Name in English**

Croatian Firefighting Association, CFA

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☐ Private company
- ☐ Research / University
- ☒ NGO / Association
- ☐ Other: Click here to enter text.

**Address**

Selska cesta 90 a

**Postcode** 10 000

**City** Zagreb

**Country** HR- Croatia

**Phone** +385 1 3689 160

**Web/URL** <http://www.hvz.hr/>

**Main Contact Person** Mario Starčević

**E-mail** [Mario.starcevic@hvz.hr](mailto:Mario.starcevic@hvz.hr)

**Direct Phone** +385 1 3689 168

**Logo**



HRVATSKA  
VATROGASNA  
ZAJEDNICA

*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

The Croatian Firefighting Association (CFA) is the roof association of 21 county fire-fighting associations, in which are associated 1,891 volunteer firefighting units and 82 professional fire brigades with a total of about 60,000 operative firefighters, of which around 95% are voluntary and at about 5% professional firefighters, who have a total of 3,155 specialized fire-fighting vehicles. Additionally within the volunteer fire brigades are about 70,000 executive, reserve, honorary members and veterans, and at about 25.000 cadet fire fighters.

Within the CFA operates the National Committee for Prevention and Extinction of Fire as a coordinating body between the Ministry of Interior, Ministry of Defence, the CFA and the National Directorate for Protection and Rescue, among others responsible for contacts with the International Association of Fire and Rescue Services (CTIF).

The CFA fulfils operative and preventive measures in the field of education, training, development of technical equipment, public relations, law enforcement etc.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☒ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: *Indicate the contexts of expertise*
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☒ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public information and involvement
- ☒ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☒ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Motivation to join the FIRE-IN (max. 10 lines)**

The CFA is making great efforts in the field of risk prevention and risk responses in all aspects of man made and natural risks. Among others, CFA is proposing the Croatian law-frame for all kind of activities, in which fire-fighters are involved. We also try to develop the education ICT system. For this purpose it is very important to change experience on international level.

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

Željko Popović  
Mario Starčević  
Damir Knežević  
Renato Podbojec

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

COWI AS

Karvesvingen 2, 0579 Oslo, Norway

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ

SAFE CLUSTER

Bâtiment Henri Poincaré

Domaine du Petit Arbois

Avenue Louis Philibert - BP 10028

13545 Aix en Provence Cedex - France

Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Trondheim, September 9, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of COWI AS to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

John Utstrand, Professional Manager Fire Safety



2016.08.09  
21:50:00+02'00'

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<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

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- To have networking opportunities with European experts involved in the same discipline
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If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**  
COWI AS, COWI

**Organization Name in English**  
COWI AS

**Category:**

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☒ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

Karvesvingen 2

**Postcode** 0579      **City** Oslo

**Country** Norway

**Phone** +47 02694      **Web/URL** [www.cowi.no](http://www.cowi.no)

**Main Contact Person** John Utstrand

**E-mail** [JUT@cowi.com](mailto:JUT@cowi.com)      **Direct Phone** +47 907 58 192

**Logo**

**COWI**

*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

COWI is a leading consulting group with competencies within engineering, economics and environmental science, we tackle challenges from many vantage points to create coherent solutions for our customer.

With offices all over the world, we combine global presence with local knowledge to take on projects anywhere in the world - no matter how large or small. At any given moment, we are involved in more than 13,000 projects.

We have more than 85 years experience in the business, and COWI is a leader within its field because our more than 6,400 employees are leaders within theirs.

COWI has more than 70 fire safety engineers, covering Scandinavia and the Middle East.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☐ Vegetation Fires fighting
- ☐ CBRNE
- ☐ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☒ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement :**

- ☒ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☒ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☒ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Motivation to join the FIRE-IN (max. 10 lines)**

Fire safety engineering is a relative young discipline, and hence there is a substantial need for R&D. Although my interest is mainly fire safety engineering, fire fighting operations are highly relevant in the context of fire safety engineering, and it may be the least "developed" topic within fire safety engineering. Functional requirements may be given for facilitating safe and sufficient means of intervention and rescue, but there is a lack of accepted verification methods.

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

John UTSTRAND – [JUT@cowi.com](mailto:JUT@cowi.com) - +47 907 58 192

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

JVVA Fire & Risk

C/Velazquez 157 28002 Madrid (Spain)

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ

SAFE CLUSTER

Bâtiment Henri Poincaré

Domaine du Petit Arbois

Avenue Louis Philibert - BP 10028

13545 Aix en Provence Cedex - France

Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

[Location, Date], 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

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The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of JVVA Fire & Risk to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

Gabriele Vigne (Director)

---

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. Its consortium will propose a methodology that aims to support the identification of practitioners' expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

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- To have an update of the state of the art and novel technologies concerning its area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Organization Legal Name and Short Name (if applicable)**

JVVA Engineering Consultancy S.L. (JVVA Fire & Risk)

**Organization Name in English**

JVVA Engineering Consultancy S.L. (JVVA Fire & Risk)

**Category:**

- ☒ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☒ Private company
- ☐ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

**Address**

C/Velazquez 157

**Postcode** 28002

**City** Madrid

**Country** Spain

**Phone** +34915245816

**Web/URL** [www.jvvafire.com](http://www.jvvafire.com)

**Main Contact Person** Gabriele Vigne

**E-mail** [Gabriele.vigne@jvvafire.com](mailto:Gabriele.vigne@jvvafire.com)

**Direct Phone** +34 915245816

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

JVVA is an independent engineering consultancy specifically focused on fire and risk services. JVVA develops innovative and practical fire safety solutions based on first principles, fire science and state of the art research. Our engineers have significant international experience, a deep knowledge regarding fire engineering principles and risk management; this allows us to develop solutions tailored to the specific needs of our clients.

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☐ Vegetation Fires fighting
- ☒ CBRNE
- ☐ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☒ Controlled evacuation, evacuee's management

**Security/ Law enforcement :**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☐ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Motivation to join the FIRE-IN (max. 10 lines)**

I believe in this interesting initiative and I would be pleased to participate to it bringing my experience as a Fire Safety and Protection expert.

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

Click here to enter text.

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**



*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

SP Technical Research Institute of Sweden  
[Box 857, 501 15 Borås, Sweden]

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 Aix en Provence Cedex - France  
Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Borås, 24th August, 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional, local organizations or independent expert involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of SP Technical Institute of Sweden to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,

[Lotta Vylund, M. Sc in risk management and safety engineering]



Signed by: Lotta Vylund  
Reason: I am the author of this document  
Date & Time: 2016-08-24 08:30:23 +02:00

<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Ministry of Interior - Department of Fire Corps, Public Rescue and Civil Defence, Italy (CNVVF)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VRI)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services, Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Czech Association of Fire Officers, Czech Republic (CAFO)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote it expectations in the research road map
- To have an update of the state of the art and novel technologies concerning it area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

## APPLICANT INFORMATION

### Organization Legal Name and Short Name (if applicable)

SP Sveriges tekniska forskningsinstitut

### Organization Name in English

SP Technical Research Institute of Sweden

### Category:

- ☐ Independent Expert
- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☐ Private company
- ☒ Research / University
- ☐ NGO / Association
- ☐ Other: [Click here to enter text.](#)

### Address

Brinellgatan 4

**Postcode** SE-501 15 **City** Borås

**Country** Sweden

**Phone** +4610 516 5000

**Web/URL** [www.sp.se](http://www.sp.se)

**Main Contact Person** Lotta Vylund

**E-mail** [lotta.vylund@sp.se](mailto:lotta.vylund@sp.se)

**Direct Phone** +4610 516 6001

### Logo



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION OR THE INDEPENDENT EXPERT****Short profile of the organization or the independent expert (max. 10 lines)**

SP Technical Research Institute of Sweden is a leading international research institute. We work closely with our customers to create value, delivering high-quality input in all parts of the innovation chain, and thus playing an important part in assisting the competitiveness of industry and its evolution towards sustainable development

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster:**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☒ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☒ CBRNE
- ☒ Natural Disasters
- ☒ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: Indicate the contexts of expertise
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement :**

- ☐ Security tasks in the context of crisis mitigation (Maintain public order, Traffic management...)

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

To get and provide the latest update on state of the art in Incident and disasters mitigation and be able to networking with experts and practitioners in Europe.

**Motivation to join the FIRE-IN (max. 10 lines)**

**Preliminary list of the potential experts\* who will be involved in the FIRE-IN project (if applicable)**

*Template: First Name FAMILY NAME - Email Address - Phone Number*

\*This list is not contractual

**Please send this application form by email with the application letter to:**

**Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)**

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Application from:**

**Regional Eastern Europe Fire Monitoring Center (REEFMC)**

15, Geroiv Oborony Str., Building 1, Office 67A, Kyiv, 03041, Ukraine

**To FIRE-IN Coordinator**

Jean-Michel DUMAZ

SAFE CLUSTER

Bâtiment Henri Poincaré

Domaine du Petit Arbois

Avenue Louis Philibert - BP 10028

13545 Aix en Provence Cedex - France

Email: [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)

Kyiv, Ukraine, 24 June 2016

**Subject: Application to become an Associated Expert of FIRE-IN**

Dear Coordinator and partners of the FIRE-IN initiative,

I have become aware of the initiative FIRE-IN which aims at creating an European coordination network that will serve research, innovation and standardization purposes, and generate recommendations on the uptake of promising solutions in the field of fire and rescue, as described in the FIRE-IN leaflet.

The project proposal answering the scope a. of the Horizon 2020 calls SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security"<sup>1</sup> with the deadline for submission 24-08-2016.

The project partners had invited the European, national, regional or local organizations involved in fire and rescue missions (operational, supporting and preparatory tasks), and which are willing to contribute to the FIRE-IN initiative to join as Associated Experts by sending a signed Application Form.

Herewith, I apply on behalf of the Regional Eastern Europe Fire Monitoring Center to become an Associated Expert of FIRE-IN and look forward to receiving the feedback within 2 weeks.

Yours sincerely,



**Sergiy Zibtsev, Head of the Regional Eastern Europe Fire Monitoring Center**

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<sup>1</sup> <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2324-sec-21-gm-2016-2017.html>

*Application Letter to become Associated Expert for the initiative FIRE-IN*

## Application form to join the initiative FIRE-IN as an Associated Expert

The initiative FIRE-IN answering the scope a. of the H2020 call SEC-21-GM "Pan European Networks of practitioners and other actors in the field of security" is led by the following consortium:

- SAFE CLUSTER, France (SAFE)
- Ecole Nationale Supérieure des Officiers de Sapeurs-Pompiers, France (ENSOSP)
- Italian Ministry of Interior, Italy (IMI)
- Bundesanstalt Technisches Hilfswerk, Germany (THW)
- Global Fire Monitoring Centre, Germany (GFMC)
- European Virtual Institute for Integrated Risk Management, Germany (EU-VR1)
- Fraunhofer INT, Germany (FhG-INT)
- Fire Ecology and Management Foundation Pau Costa Alcubierre, Spain (PCF)
- Catalonia Fire Service Rescue Agency, Spain (CFS)
- Scientific and Research Centre for Fire Protection, Poland (CNBOP)
- The Main School of Fire Services – Poland (SGSP)
- Council of Baltic Sea States, Sweden (CBSS)
- Civil Contingency Agency, Sweden (MSB)
- KEMEA, Greece (KEMEA)
- Chief Fire Officer Association, Czech Republic (CFOA)
- InnoTSD, France (Inno)

The FIRE-IN project will cover the discipline of fire and rescue. It consortium will propose a methodology that aims to support the identification of practitioners expectations and the uptake of research and innovation accordingly.

During the 5 years of the project, several collaborative works involving a large panel of fire and rescue experts from all the Europe will gather the practitioner's capability gaps.

Therefore, the FIRE-IN partners invite any interested organization to take part in the initiative as **Associated Experts**, in order to participate to the different **workshops** and **discussions** that will occur during the project.

The debate will organize through several thematic groups, dedicated to specific issues. The Associated Experts will be able to choose their level of contribution and groups accordingly to their expertise and priorities.

The benefits to become an Associated Experts are:

- To contribute to the European strategic research agenda and promote it expectations in the research road map
- To have an update of the state of the art and novel technologies concerning it area of interest
- To evaluate research project and technology developments
- To have privileged window to exchange with practitioners networks, research and industry representatives
- To have networking opportunities with European experts involved in the same discipline
- To receive prime information about the project

If the European Commission grants the FIRE-IN project, the contribution of the Associated Expert will be funded (travels and accommodation).

Applicants are kindly requested to provide information about their profile and motivations, and to select their areas of interest.

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**APPLICANT INFORMATION**

**Company Legal Name and Short Name (if applicable)**

Регіональний Східноєвропейський Центр моніторингу пожеж

**Company Name in English**

Regional Eastern Europe Fire Monitoring Center (REEFMC)

**Category:**

- ☐ European commission or agency
- ☐ Public body at national level
- ☐ Public body at regional or local level
- ☐ Private company
- ☒ Research / University
- ☐ NGO / Association
- ☒ Other: Training and Science-Policy Interface

**Address**

15, Geroiv Oborony Str., Building 1, Office 67A

**Postcode** 03041      **City** Kyiv

**Country** Ukraine

**Phone** + 38 044 527 82 82      **Web/URL** <http://nubip.edu.ua/en/reefmc>

**Main Contact Person** Sergiy Zibtsev

**E-mail** [sergiy.zibtsev@nubip.edu.ua](mailto:sergiy.zibtsev@nubip.edu.ua)      **Direct Phone** +38 067 261 16 82

**Logo**



*Application Letter to become Associated Expert for the initiative FIRE-IN***DESCRIPTION OF THE ORGANIZATION****Short profile of the organization (max. 10 lines)**

The Regional Eastern Europe Fire Monitoring Center (REEFMC) was established in Kyiv, Ukraine as a center of excellence in vegetation fire research, innovations and integrated fire management working with various agencies, research organization / universities related to fires and civil society on better understanding of nature of vegetation fires under conditions of climate change, land use changes and other changes. The National University of Life and Environmental Sciences of Ukraine hosts REEFMC that allows close communications with Governmental bodies responsible for fire management, students, researchers and NGO on wide spectrum of fire aspects including fire management, impact of fires on ecosystems / environment, positive role of fires in maintaining biodiversity etc. The REEFMC working both as a regional center maintaining collaboration with Belarus, Moldova, Poland, Turkey, Romania and participating in various global processes on fire management under leadership of Global Fire Monitoring Center (GFMC) and international organizations and voluntary mechanisms, e.g. the Global Wildland Fire Network (GWFFN) and the International Wildfire Preparedness Mechanism (IWPM).

**Indicate your expertises and areas of interest in Fire and Rescue, for different kinds of disaster :**

**Incident and disasters mitigation:** on site response for disaster reduction, containment and short-term recovery

- ☐ Structure Fires fighting
- ☒ Vegetation Fires fighting
- ☐ CBRNE
- ☐ Natural Disasters
- ☐ Transportation accidents

**People rescue:** Search And Rescue (SAR) of victims, Triage, First treatment, Transport to safe areas

- ☐ Emergency Medical Services
- ☐ S.A.R. activities in specific context: *Indicate the contexts of expertise*
- ☐ Decontamination of persons
- ☐ Health services in the field hospitals
- ☐ Controlled evacuation, evacuee's management

**Security/ Law enforcement** ☐:

- ☒ Security tasks in the context of crisis mitigation during fires on terrains contaminated by radionuclides and unexploded ordnances

**Coordination, command and control, situation assessment**

- ☒ Incidents management and coordination tasks, Decision making, planning
- ☐ Public information and involvement
- ☐ Volunteers management

**Supply and/or restoration of basic infrastructures**

- ☐ Supply and/or restoration of basic necessities, such as: Drinking water, Food, Sanitation, Electricity, ICT/Telecom

*Application Letter to become Associated Expert for the initiative FIRE-IN*

**Motivation to join the FIRE-IN (max. 10 lines)**

REEFMC is interested to take part in development of the European strategic fire research and innovation agenda and promote its expectations in the regional research road map; To get information on novel technologies in fire management; to develop close collaboration with practitioners networks, research and industry representatives and have better networking opportunities with EU experts.

*Please send this application form by email with the application letter to:*

*Jean-Michel Dumaz, [jean-michel.dumaz@safeccluster.com](mailto:jean-michel.dumaz@safeccluster.com)*

### 1.3. Other organisations and initiatives

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- **ETPIS**, European Technology Platform Industrial Safety - Germany
- **FFMI**, Fédération Française des Métiers de l'Incendie - France
- **FNSP**, Fédération Nationale des Sapeurs-Pompiers - France
- **HSD**, the Hague Security Delta Foundation – the Netherlands
- **KFWV**, Kreisfeuerwehrverband - Germany
- **Ministry of Interior** - France
- **RFMC**, Regional Fire Monitoring Center - Republic of Macedonia
- **REEFMC**, Regional Eastern Europe Fire Monitoring Center - Ukraine



KBM Lüchow-Dannenberg, Ziegelberg 26 29439 Lüchow

Jean-Michel DUMAZ  
SAFE CLUSTER  
Aix en Provence  
France

[Jean-Michel.DUMAZ@safeccluster.com](mailto:Jean-Michel.DUMAZ@safeccluster.com)

**Kreisbrandmeister**

Claus Bauck  
Ziegelberg 26  
29439 Lüchow  
Telefon: 05841 / 67 03  
Fax: 05841 / 96 16 62  
Handy: 0170 / 73 05 10 5  
e-mail: [clausbauck@online.de](mailto:clausbauck@online.de)  
Internet: [www.kfv-dan.de](http://www.kfv-dan.de)

15 June 2016

**Subject: Support letter to the project proposal "Fire and Rescue Innovation Network (FIRE-IN)"**

SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the field of security

**Dear Mr. Dumaz,**

thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to us and is in the interest of the fire and rescue communities and we gladly confirm our interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition we will be happy to participate in project events, notably the workshops for practitioners dedicated to identify capability challenges in our domain and other events. We would also be happy to directly contributing on the online platform that

1



the project plans to set up in order to make this platform alive. We can also provide feedback on our experience of research development and innovation matters and needs in the field of fire and rescue.

In conclusion we can confirm that we are very interested in working with your project and should you require any support in the development of the project or develop synergies with other projects that we are delivering do not hesitate to contact us.

We wish you every success with the FIRE-IN proposal which we believe can make a valuable contribution to the fire and rescue practitioner communities in Europe.

Yours sincerely,

Claus Bauck  
Kreisbrandmeister  
Kreisfeuerwehrverband Lüchow-Dannenberg

Fire Commissioner, Lüchow-Dannenberg County  
Lüchow-Dannenberg County Fire Services Association



MINISTÈRE DE L'INTÉRIEUR

30 June 2016

Patrick BUTOR

Subject: Support letter to the project proposal "Fire and Rescue Innovation Network (FIRE-IN)"

SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the field of security

Dear Jean-Michel,

Thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to us and is in the interest of the fire and rescue communities and we gladly confirm our interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition we will be happy to participate in project events, notably the workshops for practitioners dedicated to identify capability challenges in our domain and other events. We would also be happy to directly contributing on the online platform that the project plans to set up in order to make this platform alive. We can also provide feedback on our experience of RDI matters in the field of fire and rescue.

In conclusion we can confirm that we are very interested in working with your project and should you require any support in the development of the project or develop synergies with other projects that we are delivering do not hesitate to contact us.

We wish you every success with the FIRE-IN proposal which we believe can make a valuable contribution to the fire and rescue practitioner communities in Europe.

Yours sincerely,



Patrick BUTOR,  
French Home Office



MINISTÈRE DE L'INTÉRIEUR

**Letter of Confirmation for participation  
in the International Advisory Board of the FIRE-IN project**

Subject: confirmation of participation in the International Advisory Board of FIRE-IN Project

Dear project Co-ordinator,

Herewith, I confirm that I accept to participate in the International Advisory Board of the FIRE-IN Project.

I confirm that I have read and understood the Terms of Reference that you sent me, and I accept them.

I have noticed that:

- FIRE-IN will last 5 years, planned to start end of 2016, and I am ready to contribute during this period,
- my travel expenses related to the meetings of the IAB will be covered by the project according to the Terms of Reference, but not the time spent to review the documents and attend the meetings.

Yours sincerely

Patrick BUTOR,  
French Home Office

Paris, 2016-06-30



**FÉDÉRATION FRANÇAISE DES MÉTIERS DE L'INCENDIE**  
 IMMEUBLE MAISON DE LA MÉCANIQUE  
 39-41 RUE LOUIS BLANC ■ 92400 COURBEVOIE  
 CS 30080 - 92038 LA DEFENSE CEDEX  
 ☎ 01.47.17.63.03 ■ ✉ [contact@ffmi.asso.fr](mailto:contact@ffmi.asso.fr) ■ 🌐 [www.ffmi.asso.fr](http://www.ffmi.asso.fr)

**Le Délégué Général**  
*Réf : JBH/RC/2016.30*

**M. Jean-Michel DUMAZ**  
 Directeur des Programmes de Défense et  
 de Sécurité  
 SAFE Cluster  
 Domaine du Petit Arbois  
 Avenue Louis Philibert - BP 10028  
 13545 Aix en Provence Cedex - France

À Courbevoie, le 19 juillet 2016

**Object : Support to the project proposal "Fire and Rescue Innovation Network (FIRE-IN)"**

Dear Jean-Michel,

Thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to us and is in the interest of the fire and rescue communities and we gladly confirm our interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition we will be happy to participate in project events, notably the workshops for practitioners dedicated to identify capability challenges in our domain and other events. We would also be happy to directly contribute on the online platform that the project plans to set up in order to make this platform alive. We can also provide feedback on our experience of research development and innovation matters and needs in the field of fire and rescue.

SIRET 322 697 857 000 29 – APE 9411Z



**FÉDÉRATION FRANÇAISE DES MÉTIERS DE L'INCENDIE**  
IMMEUBLE MAISON DE LA MECANIQUE  
39-41 RUE LOUIS BLANC ■ 92400 COURBEVOIE  
CS 30080 - 92038 LA DEFENSE CEDEX  
☎ 01.47.17.63.03 ■ ✉ [contact@ffmi.asso.fr](mailto:contact@ffmi.asso.fr) ■ 🌐 [www.ffmi.asso.fr](http://www.ffmi.asso.fr)

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In conclusion we can confirm that we are very interested in working with your project and should you require any support in the development of the project or develop synergies with other projects that we are delivering do not hesitate to contact us.

We wish you every success with the FIRE-IN proposal which we believe can make a valuable contribution to the fire and rescue practitioner communities in Europe.

Yours sincerely,

**Romain CANLER**

**Executive Director**



Motion des sapeurs-pompiers  
32 rue Bréguet  
75011 Paris  
Tel : 01 49 23 18 18  
Fax : 01 49 23 18 19  
[www.gsaupompiers.fr](http://www.gsaupompiers.fr)

EF/MBI n°2016/316

Le Président

à

Jean-Michel DUMAZ  
Security and Defense Programs Director  
SAFE CLUSTER  
Bâtiment Henri Poincaré  
Domaine du Petit Arbois  
Avenue Louis Philibert - BP 10028  
13545 AIX EN PROVENCE cedex

Paris, le 13 juin 2016

**Subject:** Support letter to the project proposal "Fire and Rescue Innovation Network (FIRE-IN)"  
SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the field of security

Dear Monsieur DUMAZ,

Thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to us and is in the interest of the fire and rescue communities and we gladly confirm our interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition we will be happy to participate in project events, notably the workshops for practitioners dedicated to identify capability challenges in our domain and other events. We would also be happy to directly contributing on the online platform that the project plans to set up in order to make this platform alive. We can also provide feedback on our experience of research development and innovation matters and needs in the field of fire and rescue.

In conclusion we can confirm that we are very interested in working with your project and should you require any support in the development of the project or develop synergies with other projects that we are delivering do not hesitate to contact us.

We wish you every success with the FIRE-IN proposal which we believe can make a valuable contribution to the fire and rescue practitioner communities in Europe.

Yours sincerely,



Eric FAURE



The Hague Security Delta  
Mr. R.B. Franken (RAN)  
Wilhelmina van Pruysenweg 104  
2595 AN The Hague  
The Netherlands

Date: August 20th, 2016

SAFE CLUSTER  
Mister Jean-Michel Dumaz

**Subject:** support letter to the project proposal "Fire and Rescue Innovation Network (FIRE-IN)"  
SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the  
field of security

Dear Mister Dumaz,

Thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to us and is in the interest of the fire and rescue communities and we gladly confirm our interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition we will be happy to participate in project events, notably the workshops for practitioners dedicated to identify capability challenges in our domain and other events. We would also be happy to directly contributing on the online platform that the project plans to set up in order to make this platform alive. We can also provide feedback on our experience of research development and innovation matters and needs in the field of fire and rescue.

In conclusion we can confirm that we are very interested in working with your project and should you require any support in the development of the project or develop synergies with other projects that we are delivering do not hesitate to contact us.



We wish you every success with the FIRE-IN proposal which we believe can make a valuable contribution to the fire and rescue practitioner communities in Europe.

Yours sincerely,

A handwritten signature in blue ink, appearing to be 'R. Franken Ran', is written over the printed name.

Richard B. Franken Ran  
Executive Director  
The Hague Security Delta Foundation

	<p><b>Regional Fire Monitoring Center (RFMC)</b>  <b>Regional Southeast Europe/Caucasus Wildland Network (RSECWFN)</b></p> <p>Address: Str. "Rimska" No 11 b, 1000 Skopje, Republic of Macedonia              Phone: +389 2 3135 022 ext.150              E-Mail: <a href="mailto:nnikolov@rfmc.mk">nnikolov@rfmc.mk</a>              Web: <a href="http://www.rfmc.mk">http://www.rfmc.mk</a></p>
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Mr. Jean-Michel Dumaz  
 SAFE CLUSTER  
 Aix en Provence  
 France

[Jean-Michel.DUMAZ@safeccluster.com](mailto:Jean-Michel.DUMAZ@safeccluster.com)

25 June 2016

**Subject: Support letter to the project proposal "Fire and Rescue Innovation Network (FIRE-IN)"**  
 SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the field of security

**Dear Mr. Dumaz**

Thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to us and is in the interest of the fire and rescue communities and we gladly confirm our interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition we will be happy to participate in project events, notably the workshops for practitioners dedicated to identify capability challenges in our domain and other events. We would also be happy to directly contributing on the online platform that the project plans to set

up in order to make this platform alive. We can also provide feedback on our experience of research development and innovation matters and needs in the field of fire and rescue.

In conclusion we can confirm that we are very interested in working with your project and should you require any support in the development of the project or develop synergies with other projects that we are delivering do not hesitate to contact us.

We wish you every success with the FIRE-IN proposal which we believe can make a valuable contribution to the fire and rescue practitioner communities in Europe.

Yours sincerely,



Prof. Dr. Nikola Nikolov  
Head, Regional South East Europe / Caucasus Fire Monitoring Center  
Coordinator, UNISDR Regional SE Europe / Caucasus Wildland Fire Network



Mr. Jean-Michel Dumaz  
SAFE CLUSTER  
Aix en Provence  
France  
[Jean-Michel.DUMAZ@safeccluster.com](mailto:Jean-Michel.DUMAZ@safeccluster.com)

Stuttgart, August 4<sup>th</sup>, 2016

**Subject:**

Support letter to the project proposal "Fire and Rescue Innovation Network (FIRE-IN)" SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the field of security

Dear Mr. Dumaz

The European Technology Platform on Industrial Safety (ETPIS) is an open cross ETP initiative focusing on industrial safety. It facilitates cooperation and enables constructive exchanges between industry, regulators in charge of health, safety and environmental protection, NGOs, trade unions and other social partners, and the research and innovation community. It is active in various fields of application such as manufacturing, chemicals, energy, construction, materials, mines, transport and security.

Thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to ETPIS Members. It is in the interest of the fire and rescue communities and ETPIS gladly confirms its interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition, we are ready to promote FIRE-IN events and support your consortium for the dissemination, in particular through EU-VRI which is a partner in your consortium.

In conclusion ETPIS confirms the interest in working with your project. Should you require any support in the development of the project or develop synergies with other initiatives already linked with ETPIS, please don't hesitate to contact me.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Salvi", with a long horizontal stroke extending to the right.

Olivier Salvi



**National University of Life and Environmental Sciences of Ukraine  
Regional Eastern Europe Fire Monitoring Center (REEFMC)**

Address: Kyiv, 03041, Generala Rodimtseva st., 19, office 67a, Tel./Fax 044 527 82 82

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Jean-Michel DUMAZ  
SAFE CLUSTER  
Aix en Provence  
France

[Jean-Michel.DUMAZ@safeccluster.com](mailto:Jean-Michel.DUMAZ@safeccluster.com)

24 June 2016

**Subject: Support letter to the project proposal “Fire and Rescue Innovation Network (FIRE-IN)”**

SEC-21-GM-2016-2017 - Pan European Networks of practitioners and other actors in the field of security

**Dear Mr. Dumaz**

Thank you for informing us about the FIRE-IN initiative that you plan to submit for consideration under the European Commission H2020 SEC call in consortium with several European partners under the coordination of SAFE CLUSTER, in partnership with the French civil protection General Directorate (DGSCGC).

The topic of the proposal – a trans-disciplinary, multi-national coordination network that will be dedicated to research, innovation and standardization purposes and providing recommendations on uptake and scope for industrialisation in the field of Fire and Rescue – is highly relevant to REEFMC and is in the interest of the fire and rescue communities and we gladly confirm our interest in your project.

We understand that the FIRE-IN initiative will seek to create strong working relationships with different networks and stakeholders in the field of fire and rescue such as us and with other similar security networks across Europe. We welcome such an initiative and will actively support this process, for example through facilitating the dissemination and communication of your project in our country and region and to our relevant networks.

In addition, REEFMC will be happy to participate in project events, notably the workshops for practitioners dedicated to identify capability challenges in our domain and other events. We would also be happy to directly contributing on the online platform that the project plans to set up in order to make this platform alive. We can also provide feedback on our experience of research development and innovation matters and needs in the field of fire and rescue.

In conclusion, we can confirm that REEFMC are very interested in working with your project and should you require any support in the development of the project or develop synergies with other projects that we are delivering do not hesitate to contact us.

We wish you every success with the FIRE-IN proposal which we believe can make a valuable contribution to the fire and rescue practitioner communities in Europe.

Yours sincerely,



Prof. Dr. Sergiy V. Zibtsev  
Head, Regional Eastern Europe Fire Monitoring Center

## 6.5 Annex 4 – Other direct costs details

TRAVEL COSTS (€)				P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
				POLE SAFE	ENSOSP	CNVVF	THW	GFMC	EU-VRI	FhG-INT	PCF	CFS	CNBOP	SGSP	CBSS	MSB	KEMEA	CAFO	INNO
Meetings/Events	Details	Corresponding WP	TOTAL																
Project onsortium meetings	Kick-off meeting, 4 consortium meetings face to face and substance for 5 dissemination annual workshop side to project meeting. Average cost 1125.	5-Management and Coordination	89 840,00 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €	5 615 €
Two Project Review meetings	2 Meetings attended mainly by WP leaders (the PCU). Average costs 930	5-Management and Coordination	9 300,00 €	1 860 €	1 860 €							1860					1860		1860
Accommodation and travels for the three cycles of TWG5	15 workshops (on 2 days) with average of 19 participants with 900€/pers.	1-Practitioners common requirements as regards innovations	293 400,00 €	211 320 €	10 260 €	13 680 €	3 420 €	3 420 €			3420	10260		3420	3420	10260	13680	6840	
Advisory panel	3 meetings with 6 IAB persons (800 per expert per journey) and WP leaders + 1 partner. Estimated total participation of 11 persons	5-Management and Coordination	30 240,00 €	17 640 €	2 520 €					2520		2520					2520		2520
Events and other conferences and other SEC Networks	3 events per partners. Average costs 840€ each event (600€ travel, 150€ hotel, 90€ lunch and dinners).	4-Continuous Dialogue and dissemination	40 320,00 €	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520
Logistic and hosting costs, meals etc for TWG meeting cycles	15 workshops on two days/nights. Catering and room. Average 5460.	5-Management and Coordination	81 900,00 €	81 900 €															
Annual Dissemination Workshop	5 workshops side to annual project meetings. Average 12,8K€ for logistics / workshop	4-Continuous Dialogue and dissemination	64 000,00 €	64000															
TOTAL DIRECT TRAVEL COSTS (€)				609 000,00 €	384 855,00 €	22 775,00 €	21 815,00 €	11 555,00 €	11 555,00 €	8 135,00 €	10 655,00 €	11 555,00 €	22 775,00 €	8 135,00 €	11 555,00 €	11 555,00 €	18 395,00 €	26 195,00 €	14 975,00 €

OTHER GOODS AND SERVICES				P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
				POLE SAFE	ENSOSP	CNVVF	ENSOSP	GFMC	EU-VRI	FhG-INT	PCF	CFS	CNBOP	SGSP	CBSS	MSB	KEMEA	CAFO	INNO
Category	Details	Corresponding WP	TOTAL																
Web platform hosting costs	Five years of hosting	4-Stakeholder engagement, continuous dialogue and dissemination	10 000,00 €				10 000 €												
Financial audit		5-Management and Coordination	4 000,00 €	4 000 €															
TOTAL OTHER GOODS AND SERVICES (€)			14 000,00 €	4 000,00 €	- €	- €	10 000,00 €	- €	- €	- €	- €	- €	- €	- €	- €	- €	- €	- €	- €



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