



740575	FIRE-IN	D4.2 Annual report on interaction with practitioners and existing networks and dissemination conference #1
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Title D4.3 Annual report on interaction with practitioners and existing networks and dissemination conference #2

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PP	Restricted to other programme participants (including the Commission)	
RE	Restricted to a group defined by the consortium (including the Commission)	
CO	Confidential, only for members of the consortium (including the Commission)	





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Abstract:

This document reports how FIRE-IN has engaged with practitioners during the second year of the project. Three major actions are described here: 1/ the commitment through the second cycle of five workshops; 2/ the strong interactions between FIRE-IN and other existing or raising networks in civil protection; 3/ the scope of the second dissemination conference in Barcelona, 15 May 2019.

Noticeably, the partners have increased efforts during this year to interact with national and European networks.

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Executive Summary

The FIRE-IN project is an initiative funded by the European Commission and initiated on the 1st of May 2017. 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.

The purpose of this report is to inform how FIRE-IN has engaged with practitioners during the second year of the project: number and profile of practitioners reached, type of interactions etc. It also describes the updated interactions between FIRE-IN and other existing networks in civil protection. Finally, this report mentions how the second dissemination conference organized on 15 May 2019, facilitated these interactions and provides examples of communication items, describing selected interactions.

Table 1. FIRE-IN partners

Participant No.	Participant organisation name	Part. short name	Country
1	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, Department of Fire Corps	CNVVF	Italy
4	Bundesanstalt Technisches Hilfswerk	THW	Germany
5	Global Fire Monitoring Center	GFMC	Germany
6	INERIS Development	INEDEV	France
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 Secretariat	CBSS	Sweden
13	Swedish Civil Contingencies Agency	MSB	Sweden
14	Center for Security Studies	KEMEA	Greece
15	Czech Association of Fire Officers	CAFO	Czech Republic
16	inno TSD	inno	France





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1. Introduction

Interacting with practitioners and networks is one of the key pillar of FIRE-IN project.

To identify fire and rescue capability gaps (Work Package 1), on one hand, it is necessary to have all the European end-users community involved in the process.

On the other hand, the project intends to disseminate research results and solutions identified in Work Package 2 to boost the access to the state of the art. The targeted audience has to be as wide as possible.

Therefore Work Package 4 is supporting the key task of interacting and engaging practitioners.

The deliverable 04.07, submitted 29th September 2017, described Initial Dissemination and Communication Strategy and Plan. It mentioned the general strategy planned to reach the fire and rescue community across Europe.

The project duration is five years and interactions with practitioners and existing networks will be reported every year; due dates are month 12, 25, 37, 48 and 60. The present document reports what has been achieved during the second year of the project.

It summarizes the achievements regarding practitioners in part 2 and existing networks in part 3. Then it presents the second annual dissemination conference in May 2019.

2. Interacting with practitioners

According to the initial timeline of the project, the second cycle of workshops was due during the summer in 2019. To avoid this summer season (i.e. holidays and active forest fire period), the partners decided to speed up the process and to organize WP1 second cycle's workshops in January-March 2019.

Similarly to the first cycle of workshops, this second cycle aimed to collect capability gaps from fire and rescue practitioners across Europe. Therefore, a key focus has been to recruit as many practitioners as possible, and to engage the interactions with the European Fire and Rescue communities. However, beyond the number of experts associated to the project, we have also looked for the best representability of:

- The different fire and rescue areas and specialties;
- The different countries of Europe.
- National, Regional, Local bodies,
- Public, private, NGOs actors

Therefore, we have continued using the tools developed during the first year to engage with end-users.

2.1. Interaction tools

2.1.1. Website

The platform eFire-In is expected to be the main communication tool with the Fire and Rescue community. As that deliverable was postponed (cf. deliverable 4.1, *Report on the development of the*





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e-fire-in Platform & toolkit for the portal user #1, released December 2018) we went on using the website www.fire-in.eu as an initial window for both public and practitioners.


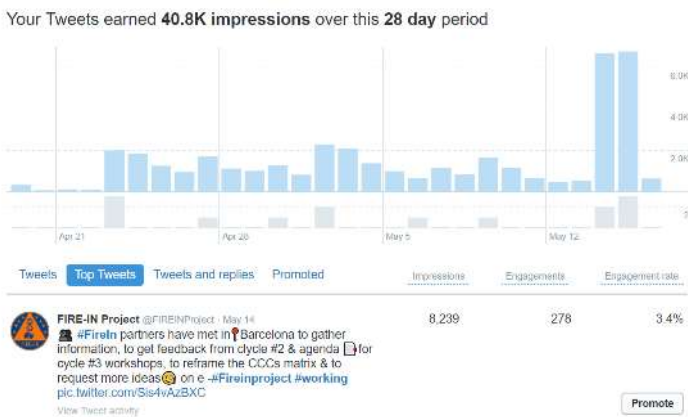

While e-FIRE-IN platform is under development, the project website fulfils some of its functions, which helps the partners to interact more effectively with practitioners. For example, the Common Capability Challenges Matrix was published on the website and combined with the results of the initial solution screening to create an interactive web-page, allowing for a more user-friendly experience.

Practitioners are still encouraged to fill the registration form through the website access. A consolidated list of registered associated experts is then generated on a regular basis, depending on the activity level.

2.1.2. Social media

As mentioned in the deliverable D4.7 “Initial Dissemination and Communication Strategy and Plan”, CBSS, PCF and ENSOSP have developed FIRE-IN visibility in social media (Table 2).

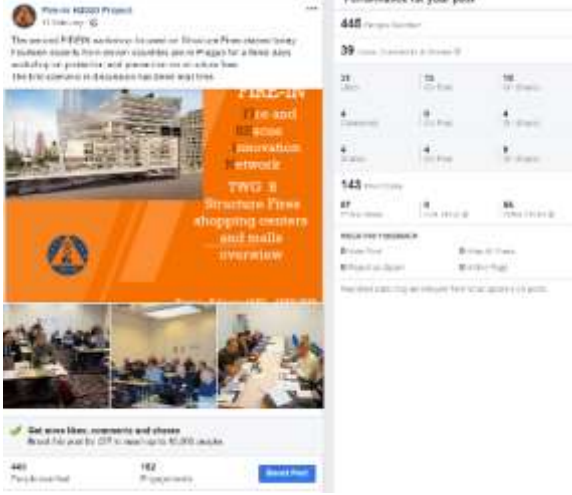



Table 2. Social media visibility (last update 16 May 2019)

	<p>562 Twitter followers. As shown in the image below, the last month we earned 40.8k throughout all our posts, and the top tweet was dated the last May 14th with 8,239 impressions and 278 engagements</p> 
	<p>209 Facebook followers.As shown in the image below, the top post earned 182 engagements and 445 reached</p>





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	<p>159 LinkedIn followers. As shown in the image, the last 30 days the number of visitors has increased 175% and on top of that we reached 14 more followers.</p> 
	<p>26 videos recorded More details, below.</p> <p>During this period, many efforts have been done to edit 26 videos that have been posted on YouTube in several playlists:</p> <ul style="list-style-type: none"> - FIREIN presentation: five videos answering basic questions about project’s definition and methodology (link) - Interviews to associated experts: nine videos with interviews to <i>endusers</i> to gather their needs and expected results from the project (link) - First cycle of workshops explanation: interviews to TWG workshops coordinators where carried out to present the workshops objectives, countries represented, scenarios and conclusions (link) - First Dissemination Conference: videos recorded during the project’s first dissemination conference held in Rome. Presentation of the results of each TWG workshops and CCC preliminary results (link)





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As shown in Figure 1, the number of followers in each social media has increased, achieving the numbers expected in the Communication Plan for each year.

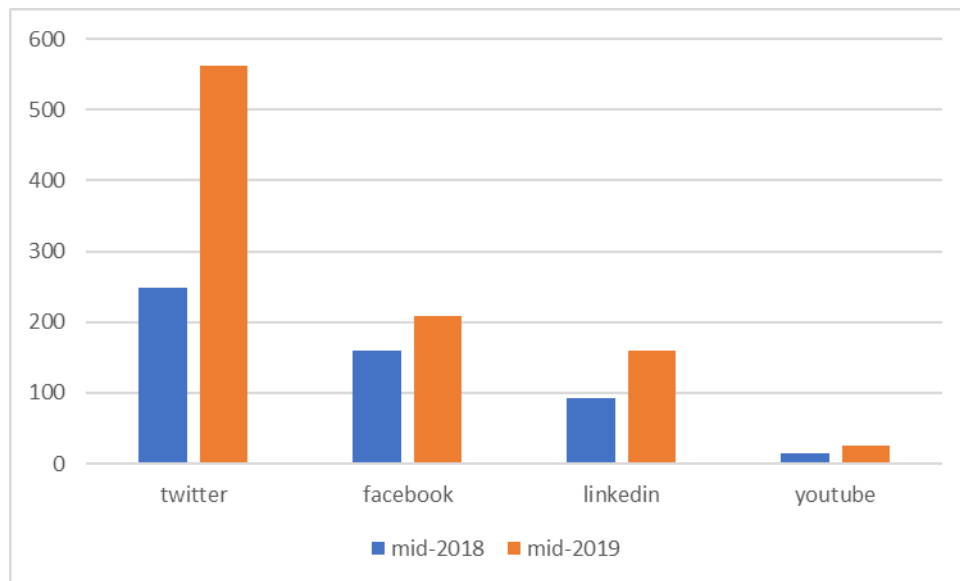


Figure 1. Evolution of the social media followers and contents between 2018-2019

2.1.3. FIRE-IN Newsletter

CBSS in cooperation with other T4.3 partners coordinated and produced FIRE-IN Newsletter 3 – December 2018, which was sent to 359 recipients using MailChimp (with 34% opens compared to industry average 21,7%). Newsletter 3 focused on the Common Capability Challenge Matrix, preliminary solutions screening results and TWG scenarios. Link: <https://mailchi.mp/f315862bfbed/fire-in-newsletter-3-first-results>

An extra edition of the Newsletter – Invitation to the Annual Dissemination Workshop was prepared in consultations with T4.3 partners and send out to 383 recipients. Link: <https://mailchi.mp/841c93e2dc85/registration-for-fire-in-annual-dissemination-workshop-in-barcelona-150519>

2.2. Results

2.2.1. Registration list

There are now 328 associated experts registered in the FIRE-IN list (9th May 2019 update). With 35 countries represented, the distribution embrace a large diversity (Figure 2) throughout Europe and outside.

Despite the delay in eFire-In, it is worth noting that the partners successfully engaged with more than 100 experts in the second year life of the project, without any interactive tool.





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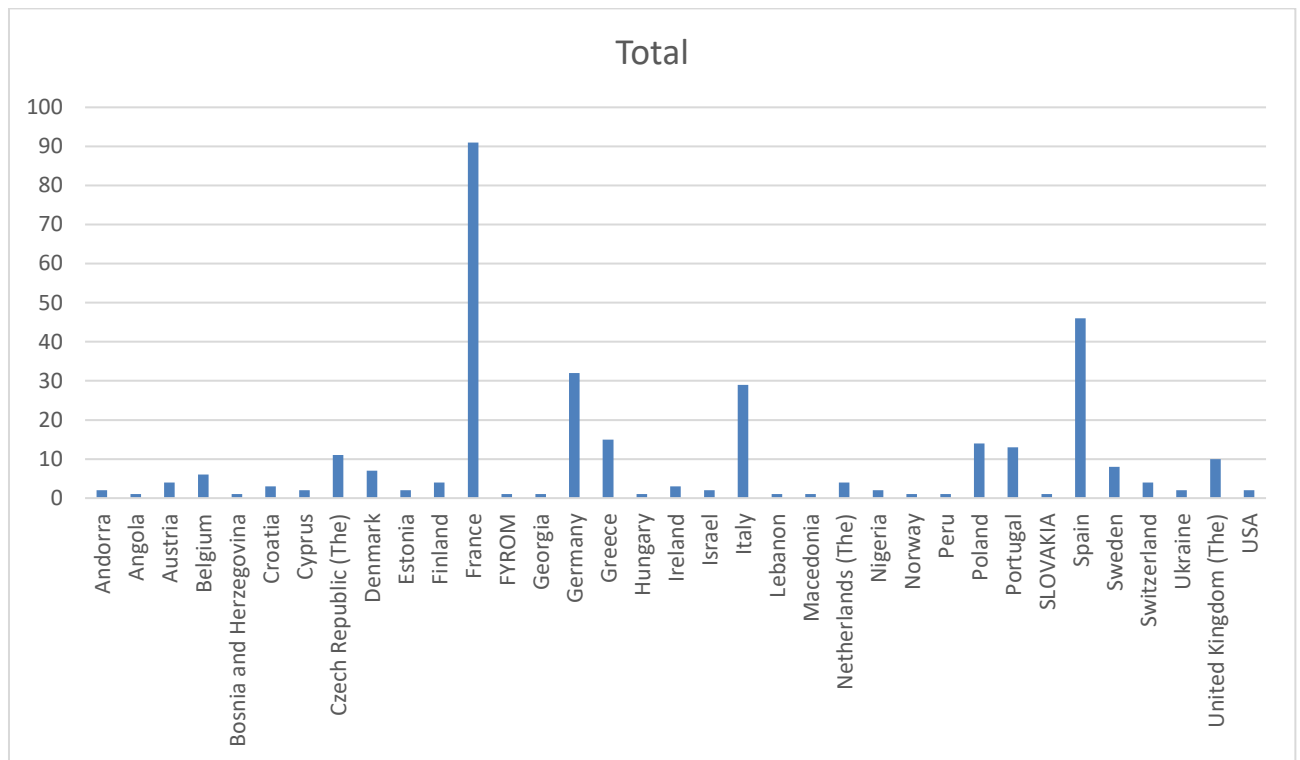


Figure 2. Country repartition of associated experts registered in FIRE-IN list.

2.2.2. Workshops attendees

During the second cycle of workshops (January-March 2019), partners and associated experts met in Aix-en-Provence, Prague and Paris (Figure 3). Cumulatively, 120 people from 19 countries were implied in the exchanges (Figure 4). They were fire or/and rescue practitioners with a special expertise in one or several of the following topic:

- A. Search and rescue and emergency medical response;
- B. Structures fires;
- C. Vegetation fires;
- D. Natural disasters;
- E. CBRNE

The criterion to select the experts for these workshops have been:

- i. A broad representation of the different European countries.
- ii. A diverse representation of public and private agencies.
- iii. A representation of the different sub thematic of the workshop. The workshop A, for example, gathered both emergency doctors and high mountain rescuers. The workshop B gathered both tunnel fires and high rise building fires specialists.
- iv. Experts already involved in thematic networks, as described in part 3.3 of this document.
- v. Experts with a good level of knowledge of the topic challenges on a national scale.





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Figure 3. Pictures of the second cycle of workshops





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Figure 4. Countries represented in the FIRE-IN Cycle #2 workshops

Table 3. List of countries represented in the FIRE-IN Cycle #2 workshops

Spain	France	Italy	Austria	Germany
United Kingdom	Denmark	Israel	Czech Republic	Belgium
Switzerland	Netherlands	Poland	Estonia	Croatia
Greece	Portugal	Cyprus	Slovakia	





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3. Interacting with existing networks

3.1. European networks

3.1.1. Community of Users on Secure, Safe and Resilient Societies, Brussels

"Community of Users on Secure, Safe and Resilient Societies" (CoU) has been launched in January 2014 under the umbrella of DG Home and has since developed to become an effective platform of exchanges among different actors of different branches of security and crisis management.

Fire-In has actively been participating in all the meetings of the CoU during this year, giving this special opportunity to three different persons:

- 3-4 December 2018; Jean Michel Dumaz (Safe cluster)
- CoU Governance meeting, 28th February; Marta Miralles (Catalan Fire Service)
- 25-29 March 2019; Sébastien Lahaye (Safe cluster) and Jordi Vendrell (PCF)

PCF also attended and represented the FIRE-IN project during the *Workshop to define a Fire Safety Mission for Europe* (3 December 2018, Brussels).

3.1.2. Other European projects

FIRE-IN partners are involved in several H2020 European projects, INTERREG projects or DG ECHO funded projects.

They interact with networks through these projects and disseminate FIRE-IN activities during workshops or other events.

Table 4 presents the ongoing European projects recognised as relevant in the Fire and Rescue area. One or several of the FIRE-IN partners are also partners in most of these projects. Whereas they are not, the project consortium have invited FIRE-IN partners to attend events and present FIRE-IN.

Reports of some of these participations are in Appendix 1-6.

Table 4. FIRE-IN interactions with European projects (June 2018-May 2019 period)

acronym	project focus	FIRE-IN Partners involved or present in project events	Date of event with FIRE-IN partner participation	input/ results
BRIDGIT2	Bridge the gap between the Research, Innovation and Standardization Communities	INEDEV	November 9, 2018	Interactions during the workshop bringing the perspective of fire & rescue practitioners.
DAREnet	Danube River resilience	THW	28.2.-29.2.19	Poster session plus short verbal indication during the forum, intensified contact to Heimdall and some service providers





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DRIVER+	DRiving InnoVation in crisis management for European Resilience	CNBOP SAFE	3-4 Sept 2018 21-23 May 2019	Cf. Appendix 1 Observer position during DenHaag trial
DWA		THW	18 Sept 2018	Update on the FIRE-IN project
EASeR	Enhancing Assessment in Search and Rescue	CNBOP	3-5 Sept 2018	Participation in Final Workshop on Standard Operating Procedures (SOP)
EFDRR	Disaster resilience	THW	21-23.11.18	Participation in the forum, new contacts and leaflet distribution, e.g. AE Vlatko Jovanovski ,Head of Secretariat at Disaster Preparedness and Prevention Initiative for South Eastern Europe etc.
ENCIRCLE	European CBRN innovation for the market cluster	INEDEV SAFE ENSOSP CAFO CNBOP	29 Nov 2018	Dedicated meeting to coordinate activities between both projects
eNOTICE	European Network Of CBRN Training Centers	CNVVF CNBOP SAFE CAFO	10 Oct 2018 Dec 2018 23 May 2019	Cf. Appendix 2 Dedicated meeting to coordinate activities between both projects Cf Appendix 3
EVAPREM	Prevention	CNVVF	October 2018	Cf. Appendix 4
GEOSAFE	Geospatial based Environment for Optimisation Systems Addressing Fire Emergencies	PCF	Permanent dissemination in Australia	
HEIMDALL	Multi-Hazard Cooperative Management Tool for Data Exchange, Response Planning and Scenario Building	PCF; CFS; SAFE	8-10 Oct 2018 16-17 April 2019	S Lahaye (Safe) external advisor during trial in Scotland G Gnechi (CNVVF) external advisor during trial in Italy (cf. appendix 5)
Hub project (DG Echo)	Building a hub for natural disasters preparedness and management	Fraunhofer; GFMC	August-Dec 2018	Building the proposal with support of Fire-In network
I-LEAD	Innovation - Law Enforcement Agency's dialogue	KEMEA	Continuous collaboration due to KEMEA's participation in both Networks.	Meetings and input/feedback/knowledge transfer/exchange.





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ILEAnet	Build a sustainable organisational Law Enforcement Agency practitioners network focused on research & innovation	SAFE	22 Jan 2019	Face-to-face meeting between coordinators of both projects
IN-PREP	An INtegrated next generation PREParedness programme for improving effective inter-organisational response capacity in complex environments of disasters and causes of crises	FHG; CNVVF; THW		E-Mail updates on FIRE-IN with UNU and DfV (Deutscher Feuerwehrverband) and AEs from past TWG D workshops
IPADRAM	Exchange of forest fire experts and knowledges in the Balkans and Turkey	MSB CNVVF	10 Apr 2019	Cf Appendix 6
MEDEA	Mediterranean network of practitioners	KEMEA THW	03 Sept 2018	Input and leaflet distribution at MEDEA kick off
NetRiskWork	Networking for the European Forest Risk Facility initiative	PCF	Nov 2018	Interactions with the <i>Lessons on Fire</i> platform
NOFEAR	Network Of practitioners For Emergency medical systems and cRitical care	SAFE	26-27 Nov 2018	Participation in the event; exchanges of challenges and best practises; networking with associated experts crossing both FIRE-IN and NOFEAR networks
ResiStand	Boosting disaster resilience through standardization	FhG; INEDEV	March 22, 2018	Presentation of inputs from FIRE-IN regarding standardization needs.
ResQU2	Increasing preparedness and coordination of rescue operations	CBSS	10 April 2019	Presentation of the FIRE-IN project and invitation to participate in the Annual Dissemination Workshop
SAYSO	Standardization of situation awareness systems	THW; KEMEA	April 15-17, 2019	Participation in JOINT FINAL CONFERENCE OF THE SMARTRESILIENCE AND SAYSO H2020 PROJECTS. Networking, leaflet distribution, banner presentation.
SEREN4	Network of Secure Societies Research NCPs	KEMEA	24 October 2018	Participation In European Brokerage Event on Resilience from disaster 2019 – workshop dedicated to practitioners.





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				Also presenting the interconnection of research community and practitioners/operational community.
Smart Resilience Project	THW			Meeting with the representatives and short presentation of FIRE-IN
TAFF	THW	02.02.19		Presentation of the project and exchange of expertise, Taff was presented as solution (standardized training for flash floods) at the TWG D Workshop in Prague
				Development of operational strategies and guidance on Tackling consequences of extreme rainfalls and Flash Floods

3.1.3. FEU

The European Union Fire Officers Associations (FEU) is a leader in the field of Fire Brigades and fire safety in Europe. The principal aim of The Federation of the European Union Fire Officers Associations (FEU) is to enhance fire safety and provide expertise to European bodies in matters concerning the development of fire brigades and fire safety in Europe and especially in respect of organisation and management, structure; technical skills, training and fire engineering so as to gain the most effective, efficient and economic means for mitigating the loss and damage to life, property and national economies by fire, other emergencies (including catastrophic national disasters) and all related environmental issues. The FEU currently covers national associations from 20 European countries. Every year, two meetings are held where, among other things, new findings from the field of fire protection and fire service organization, results of pro-jects and others are presented.



The Fire - in project and its partial results were presented at meetings:

- May 26-26, 2018 in Rome, where representatives from 20 EU countries participated
- November 22-24, 2018 in Tartu (Estonian), attended by representatives from 17 EU countries

The project website was presented to the participants and invited to register as Associated Experts. Six national delegates of FEU are registered at as Associated experts.

3.1.4. SFPE Europe Conference on Fire Safety Engineering

Piotr Tofilo (SBSS) delivered a 25 minute presentation about Fire-IN at the 3rd SFPE Europe Conference on Fire Safety Engineering held in Malaga, Spain, 20-23 May 2019.

The event was attended by approx 200 attendees and exhibiting companies.





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Attendees were engaged to sign in as experts and the SFPE will send out an email to all attendees with the Fire-In link.

SFPE Magazine will accept an article on Fire-IN project.

It was agreed at the general meeting that SFPE Europe will pass to Fire-IN a white paper on capability gaps and challenges as seen by the community of fire protection engineers



3.2. National and cross border networks

Civil Protection National instances

FIRE-IN partners, located in eight countries, frequently interact with their national relatives, e.g. Civil Protection Ministry. They also attend regional or national exhibitions, e.g. Firefighters National Congress.

As an example, SAFE representatives had dedicated meetings with the General Direction for Civil Protection to detail FIRE-IN achievements and dissemination throughout the French community on 22 January and 5 February 2019.

On 28 February 2019, FIRE-IN was presented to the board of the French Crisis Management excellence chair.

CBSS presented the project at the Nordic Dialogue Symposium on volunteerism in Fire and Rescue services in Sonderborg (Denmark – March 2019) which resulted in a delegation from Denmark visiting the Annual Dissemination Workshop in Barcelona to present solutions related to involvement of society in the Fire & Rescue. Cf. Appendix 7.

Industry and Innovation networks

In the same way, there are interactions and presentations of FIRE-IN to industrial and innovative networks.

Regarding France, FIRE-IN was introduced in the following events:

- SAFE technical group in Environment, 1st April 2019
- ENSOSP day dedicated on numeric tools for civil protection applications, 7th May 2019
- Technical Working Group on Natural disaster resilience, 27 May 2019

3.3. International events





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FIRE-IN was presented/represented in international conferences or events with a worldwide extent:

- 21-24 May 2018, Fire Continuum Conference, Missoula, US
- 12-15 November 2018, VIII International Conference on Forest Fire Research, Coimbra, Portugal
- 3 December 2018, workshop of the International Association of Fire Safety Science, Brussel (Appendix 8)
- 12-13 April 2019, International Conference on Dangerous Substances, Santa-Maria, Portugal (Appendix 9)
- 29 April- 2 May 2019, 6th International Fire behaviour and Fuel Conference, Marseille, France

CNBOP-PIB disseminate FIRE-IN during international fairs in Poland like FIRE EXPO 7-9.IV.2018 and INTARG 20-21.IV.2018 as well as during Trilateral Meeting between France, Poland and Germany on 21-22.06 in Berlin or Science for Peace and Security (SPS) Programme INFORMATION DAY 22.01.2019 in Warsaw.

CBSS presented the FIRE-IN project, reported on the progress and facilitated registration of new Associated Experts in the following events in the Baltic Sea Region:

- EU Strategy for the Baltic Sea Region (EUSBSR) Policy Area Secure Steering Group Meetings (Sweden - May 2018, Latvia - November 2018)
- CBSS Civil Protection Network Senior Advisers meeting (Latvia - February 2019)
- Baltic Sea Region Research Network on Societal Security (BSR-RNSS) project meeting (Finland – January 2019)

FIRE-IN has also been presented to the Country Fire Authority (CFA), the Australasian Fire and Emergency Services Authorities Council (AFAC) and the Bushfire CRC in Victoria (Australia) by PCF (and in cooperation with GEO-SAFE project) during internal meetings with these agencies.

3.4. Thematic networks

3.4.1. Search, Rescue & Emergency

3.4.2. Landscape fires

- 3-5 October 2018, Villefranche-de-Conflens, France; Rencontres Nationales du Brulage dirigé
- 6 november 2018, Barcelona, Spain ; Forum on Catalan Research in forest Fires
- 8 November 2018, Solsona, Spain; workshop on extreme wildfires
- 12 March 2019, Carry-le-Rouet, France; « Wildfires from another point of view »
- 27 March 2019, SAFE meeting with CEREMA to develop interactions between WUI-Net project and FIRE-IN

3.4.3. Natural disasters

- 25-26 March 2019, Montpellier, France, Assises Nationales du Risque Naturel





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3.4.4. CBRNE

CBSS informed about FIRE-IN during the STAC-CBRNE (Strengthening the Transnational Capacity of the Management of CBRNE Agents related Emergencies) project meeting in Riga, Latvia on 8-9 October 2018.

3.5. FIRE-IN Interaction Map

During this period, a map has been created to make the impact of the project visible through the interactions described in this section (Figure 5, Figure 6). The interactive map can be consulted here:





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FIRE-IN Interactions Map

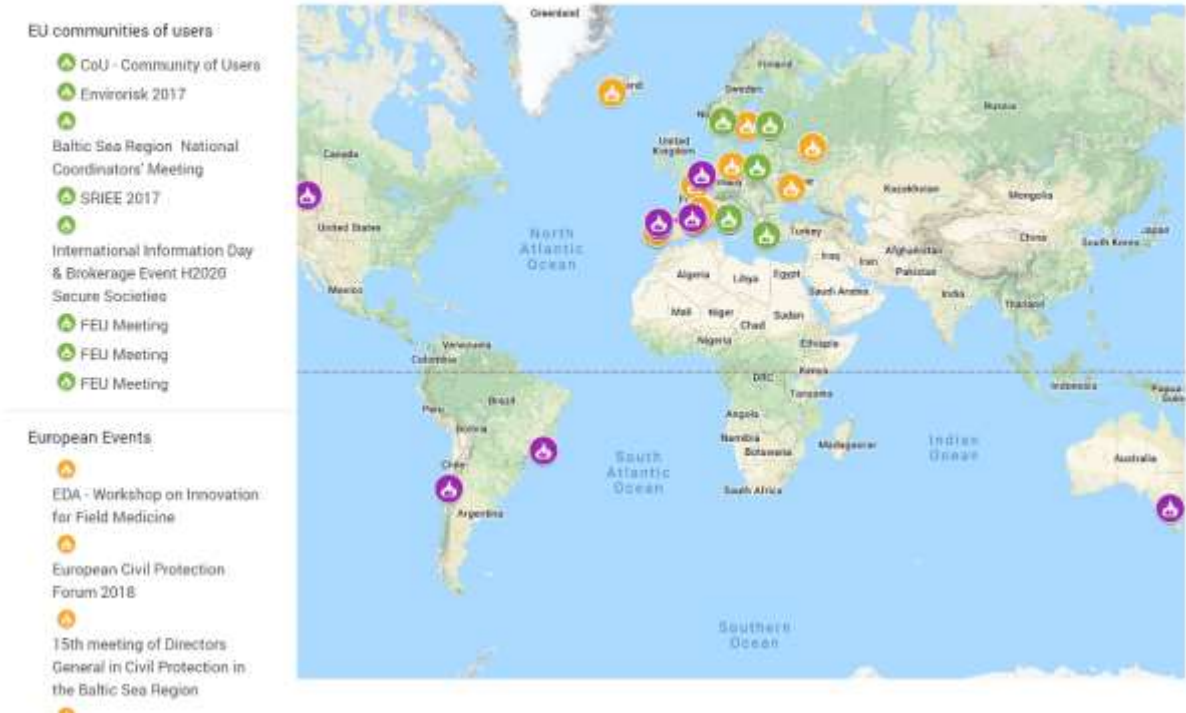


Figure 5. Global FIRE-IN Interactions Map

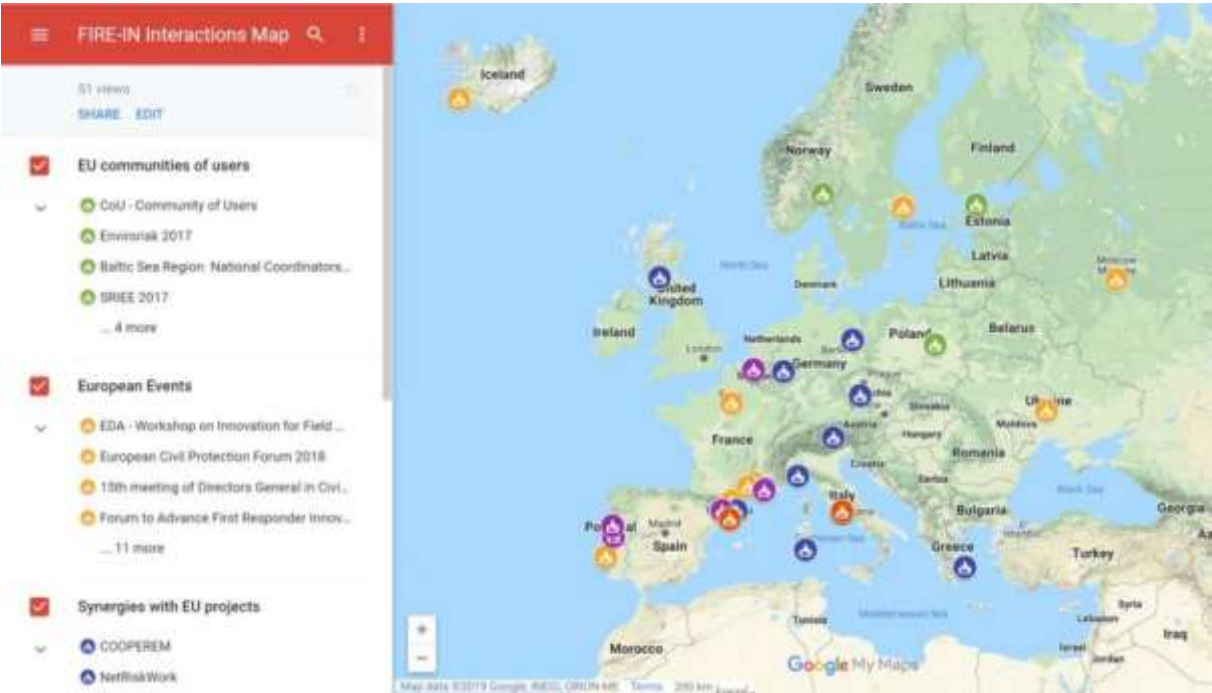


Figure 6. European vision of the FIRE-IN Interactions Map





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4. Dissemination conference

In the process of the project, a dissemination conference is organised every year.

Catalan Fire and Rescue Service hosted the second Annual Dissemination Workshop of the FIRE-IN project in Barcelona on 15 May 2019. (Figure 8, Figure 11, Figure 12)

82 participants from 15 European countries took part in the event, which this year was organised as a mix between showcasing the preliminary results of the project and the direct interactions with solution providers. During the morning session, the participants were presented with the results of the 10 workshops, in which 120 experts from 19 countries explored different challenges through real-life scenarios such as a plane crash in the mountains or a road tunnel fire. This exercise helped the FIRE-IN partners in identifying most pressing issues, which should be prioritized by research and industry. (Figure 9).

Afterwards, it has been introduced to all the audience the E-Fire In Platform with its new functionalities and its new inputs. This presentation was a great opportunity to encourage partners to get feedback from them in a more interactive way.

For the afternoon session the organisers invited 12 representatives of private sector, research and other EU-funded and national projects in the field of Fire and Rescue to present their solutions and engage them in a discussion on how these solutions can be applicable to the identified challenges.

The presentations ranged from a software system to simulate pedestrian flows in case of emergency (Exodus by the University of Greenwich) to an initiative involving 10-18-year-old youth in fire brigades (Danish project Youth in Preparedness) (Figure 10).

Furthermore, a Press Release has been sent to Fire In Press Contacts, and as a result a local newspaper (La Manyana de Lleida) mentioned the Fire In meeting in Barcelona (Figure 7).

The next FIRE-IN dissemination Workshop will take place during the Interschutz Fair in Hannover, Germany on 18th June 2020.



Figure 7. FIRE-IN project in the local newspaper *La Manyana*.





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Figure 8. The ESPAI ENDESA premises for the dissemination in Barcelona



Figure 9. Plenary morning session



Figure 10. Afternoon session – Interactive workshops with experts, other relevant EU projects and solution providers



Figure 11. Registration area



Figure 12. Lunch break





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Appendix 1

CNBOP-PIB participated in the International Conference and Workshops "Innovations for Crisis Management" (I4CM - Innovation for Crisis Management), which took place in Warsaw on September 3-4, 2018. The event was organized by the DRIVER + project consortium (Driving Innovation in Crisis Management for European Resilience), with the support of the German Institute for Standardization (DIN) and Forum Public Safety Communication Europe (PSCE - communication in Europe in the area of public safety). This event was dedicated to the issues of standardization as well as cooperation and interoperability between agencies related to crisis management. In addition, participants had the opportunity to see the first results of the DRIVER + project.



I4CM was realized in two parts - a conference program, workshops and the OFF program. There were program speeches, discussion panels, thematic workshops and interactive sessions. The First day was devoted to know results of DRIVER+ First Trial and to discussion panels. On the second day of the event, the organizers realized the OFF program, which provided for parallel workshops and practical sessions dedicated to different target groups.

The representative of CNBOP-PIB, representing the FIRE-IN project, took part in workshops for practitioners, covering all innovative practice networks and focusing on standardization. This part of the event, organized by CEN / TC391, was entitled "Research meets standardization". To participate in the workshop of practitioners, the project representatives were invited by the organizers as panelists and presented the results of currently implemented network projects. FIRE-IN project was presented by Joanna Sadowska.



Another point of the program, in which the representative FIRE-IN on behalf of CNBOP-PIB participated, was a workshop called CMINE Workshop (name derived from the network created by





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DRIVER + Crisis Management Innovation Network Europe- European Innovation Network in Crisis Management). The CMINE network is a tool created, among others through the involvement of the Community of Practice for researchers, politicians, practitioners, industry representatives, communities related to the reduction of risk related to natural disasters (DRR- Disaster Risk Reduction) in relation to natural hazards. CMINE aims to focus the DRR community / natural hazards, supporting synergies between existing projects and initiatives, facilitating the exchange of knowledge at the regional, national and EU level, and increasing the possibilities of introducing innovative solutions to the market. Workshops on crisis management networks in Europe were organized by Ecorys.



The conference and Warsaw "Innovations for Crisis Management" were an opportunity to exchange experiences and practices in an active community in the area of security. About 200 participants from around the world took part in the event.

As a result of participation in the Conference and Workshops, interesting contacts were established for the FIRE-IN project and experts were selected, with whom the indirect results of the FIRE-IN project were planned for the nearest future. The meeting was also an opportunity to inform other participants of the event about the details of the FIRE-IN project implementation.

From the point of view of the benefits for the FIRE-IN project, the workshop network of practitioners proved to be the most valuable. As part of networking, promising cooperation was established with project partners ILEAnet (Innovation by Law Enforcement Agencies networking project) and iLEAD (innovation - Law Enforcement Agency's Dialogue)





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Appendix 2

10-11 October 2018, Presentation of FIRE-IN project at the eNOTICE project workshop, Scuola NBC Rieti – Italy

A moderator of the TWG E “CBRN”, representative of CNVVF as a partner of the FIRE-IN project attended the Multidisciplinary Field Exercise of the eNOTICE project, which has taken place at the Scuola NBC of Rieti (Italy).

The overall goal of the eNOTICE project is to establish a European network of CBRN training, testing and demonstration centres.

During the Field Exercise, eNOTICE project’s partners, as well as experts from Europe have seen the presentation of the Scuola NBC, an activity of the Operational Sampling Course, the BC training area and a CBRN/EOD (“dirty bomb” disposal) simulation.

During the debriefing that followed the Field Exercise, CNVVF presented the FIRE-IN project, the TWG E Workshop Results, as well as perspectives and potential cross collaboration with eNOTICE. CNVVF also participated to the discussion on the following issues: the added value of the organization of Joint Activities in the framework of CBRN training and the key factors to create a sustainable European Network of CBRN Training Centers. More information about the eNOTICE project: <https://www.h2020-enotice.eu/>



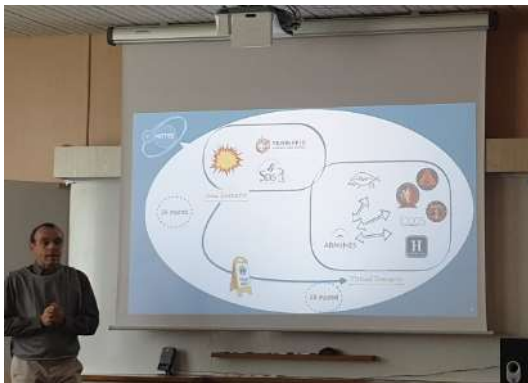


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Appendix 3

Collaboration with other CBRNE relating projects e-NOTICE event 22nd- 24th of May, 2019, Gurcy, Seine – Et – Marne, France

The TWG E CBRNE (CAFO) representative participated in the e-NOTICE project activity in France. The overall goal of the eNOTICE (European Network of CBRN Training Centers) project is to establish a European network of CBRN training, testing and demonstration centres aiming at enhancing CBRN training capacity for improved preparedness and incident response through increased collaboration between CBRN training centres and practitioners' needs-driven CBRN innovation and research. As part of the activity, an exercise was organized in the SDIS77 training facility in Gurcy. The topic of the exercise was a terrorist attack using CBRN substances. Within the event, the Fire-in project was presented and possible cooperation between pro-projects was presented. Taking into account the focus of the project - collaboration between CBRNE training centres across Europe, it is possible to identify the results of the project, which can inspire identified gaps and challenges in standardizing the quality of CBRNE training and education.



Part of the exercise was also testing UAV and robots, who are able to perform detection and measurement during radiation accidents. Modification of the UAV and robots for data collection within the radiation accident is realized within the framework of the **TERRIFFIC** project. TERRIFFIC's outcome can be provided with guidance on identifying identified CBRNE gaps and challenges.





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During the exercise was discussion with representatives of the **HOPICAMP** project. The aim of the project is to develop tools for the operation and training of Field Hospitals and Advance Medical Posts (AMP). Within the project, a virtual tool for personnel training and a system for logistic management using RFID chips is developing. In connection with the Fire-In project, it is possible to identify cooperation within the TWG A - Search and Rescue and TWG E CBRNE.





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Appendix 4

The CNVVF team, leader of TWG B on structure fires, attended the EVAPREM project seminar on October 23, 2018 in Brussels. The seminar introduced the research model and preliminary results.

The aim of the project EVAPREM is to deepen our understanding of the effectiveness and efficiency of the prevention services considering the corresponding socio-economic environment. The project will provide robust evidence and analysis to support policy-makers in understanding the impact of prevention and supports policy-makers at different administrative levels in elaborating and reshaping the selection of prevention services with providing cost effective evaluation tools.

EVAPREM project's partners are:

- The Estonian Rescue Board (ERB) – Coordinator
- University of Tartu, Estonia
- State Fire and Rescue Service of Latvia, Latvia
- Frederiksborg Brand og Redning, Denmark
- Fire and Rescue Department under the Ministry of the Interior of the Republic of Lithuania, Lithuania
- University of Turku, Finland

The results presented can be consulted at the link <http://www.evaprem.eu/comparison>.





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Appendix 5

CNVVF meets HEIMDALL Project in Savona (Italy).

Gianmario Gnecci, a Senior Fire Officer belonging to the Italian National Fire Service which is one of the FIRE-IN project and IN-PREP project Partner, attended, as External Advisor, the HEIMDALL EUW3 workshop in Savona at CIMA Foundation Premises on 16th and 17th April 2019..

The HEIMDALL Third End User workshop was aimed at testing and evaluating the third release of the Emergency Management Multi Risk Platform which is being developed by HEIMDALL Partners.

Mr. Gianmario Gnecci was involved as external advisor managing one of the five working teams during two tests of the system, related to a landslide scenario simulation. He also sent a short report to Heimdall Management on the issues that have been noticed during the test and that could also be shared with IN-PREP project team..

In the morning of 17th, before the start of the activities mr. Gnecci was offered, from the Project Coordinator dr. Mani Swaminathan, the opportunity to give a speech presenting the project FIRE-IN to all participants that appreciated the update on FIRE-IN main goals and the cross dissemination between EU funded projects.





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Appendix 6

The headquarters of the Civil Protection Department kicked off April 10, the two-day event dedicated to the exchange of forest fire experts, carried out under IPA DRAM - Disaster Risk Assessment and Mapping in the Western Balkans and Turkey", the Technical Assistance Program to the Western Balkan countries and Turkey financed by the European Commission - DG ECHO for better disaster risk management at European, national and regional level.

Leader of the Consortium is the Swedish Civil Protection Swedish Civil Contingencies Agency (MSB) with the Italian Civil Protection Department and CIMA Foundation, in collaboration with the Civil Protection Authorities of Croatia (NPRD) and Slovenia (ACPDR).

Since 2016, in fact, the purpose of the European IPA DRAM Project has been to implement effective national systems for the collection, assessment and mapping of disaster risks, alignment and integration into the European Civil Protection Mechanism of the seven States beneficiaries: Albania, Bosnia and Herzegovina, Macedonia, Kosovo, Montenegro, Serbia and Turkey.

The agenda of the first day sees the participation of specialists from the seven partner countries, officials from the Department, as well as set up interventions by the Carabinieri and the Fire Brigade. On Thursday 11 April, the delegation will visit the Lazio Region operations room and Ciampino airport where Giovanni Fresu, representative of the CNVVF, illustrated the operational structure of the Italian fire brigade, the land vehicles and the aerial means used in forest fires. He also illustrated the European projects in which firefighters such as STORM and FIRE-IN participate, inviting experts to join the community of end-users.





Appendix 7



On 28 of March 2019, PA Secure’s Andriy Martynenko, Adviser at the CBSS Secretariat, was invited to present [FIRE-IN project](#) and the CBSS civil security activities at the symposium in the city of Sønderborg (Denmark). The symposium was organised by the [Nordic Dialogue](#) and gathered more than 50 participants from Danish fire and rescue brigades, Danish Emergency Management Agency (DEMA), volunteer and private organisations, as well as international participants, who represented the Finnish National Rescue Association (SPEK) and the Fire and Rescue Services of Czech Republic.

The participants were informed of the organisation and structure of the voluntary fire and rescue brigades in Denmark, Finland and the Czech Republic and discussed the most effective ways to recruit and retain volunteers. Two ongoing Danish projects were introduced in the symposium: one focusing on youth fire cadets and the other – on army veterans, showed how the camaraderie and purposefulness of fire brigades can change the lives of teenagers and help veterans to re-acclimatise to civilian life. Both initiatives are very successful in Denmark and could contribute to the activation of voluntarism and social inclusion in other countries in the Baltic Sea Region as well as contribute to the FIRE-IN project’s knowledge base on inclusion of the civil society into Fire & Rescue activities.

Presentation of the PA Secure’s activities was met with interest and resulted in more fire and rescue practitioners signing up as FIRE-IN Associated Experts and the emergence of several new ideas for cooperation, which hopefully will be released under the Danish Chairmanship of the CBSS Civil Protection Network.

[Watch the panel with young fire cadets, explaining how participation in the project influenced them.](#)





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Appendix 8

FIRE IN at Workshop to define a Fire Safety mission for Europe

On 3 December, a workshop by the [International Association of Fire Safety Science](#) (IAFSS) was organised in Brussels, bringing together over 100 representatives, including the CNVVF representing FIRE-IN consortium, of the fire safety community to discuss the importance of science in fire safety and to define a Fire Safety Mission for Europe.

The event comes as a response to European Commission's [publication](#) of its outline for "Horizon Europe", the research & innovation programme which will follow Horizon 2020, with a proposed budget of around 100 billion € for 2021-2028. The original proposal makes no mention of fire safety.

The new proposed structure for Horizon Europe will build on thematic "pillars" (Health, Inclusive and Secure Society, Digital and Industry, Climate, Energy and Mobility and Food and Natural Resources) and horizontal "missions". The definition of a "Fire Safety Mission" is particularly suitable for the inclusion of fire safety in Horizon Europe, as fire safety is truly horizontal in nature, cutting across a broad variety of potential themes.

IAFSS launched a [position paper](#) calling for action concerning fire research and engineering needs for the future, the *IAFSS Agenda 2030 for a Fire Safe World*. Using the IAFSS Agenda 2030 as a starting point for dialogue, the IAFSS and International Standardisation Organisation Technical Committee on Fire safety (ISO TC92) invited all fire safety stakeholders to a workshop to define a Fire Safety Mission for Europe. Stakeholders will help develop a research roadmap and potentially white papers, to facilitate the generation of directed funding towards fire safety science research to address emerging societal and environmental challenges.

Key takeaways from this productive workshop are:

- the need to make fire science more proactive
- the importance to strengthen collaboration between academics, fire fighters and industry
- to work on fire safety awareness for professionals and citizens
- to take a holistic view on fire safety, involving all disciplines and aspects
- to consider the strong social aspect and be inclusive





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Appendix 9

The “4th International Conference on Dangerous Substances”, held in Santa Maria da Feira (Portugal) on 12 and 13 April 2019, allowed issues to be raised concerning hazardous materials and those chemicals that, by type or quantity, can cause situations of risk and danger.

The Conference took place in two days with different modality.



On 12 April 2019 new technologies, materials and personal protective equipments were presented to the Fire Brigades commanders. In particular innovative Air Purifying Respirators, drones, sealing and controlled drainage systems used for fast response to prevent environmental damage, etc. . Then the Commanders discussed the pros and cons of the use of these devices in different scenarios involving dangerous substances.

On 13 April 2019 issues and different experiences encountered were presented at a seminar mainly targeted to people belonging to Fire Brigades and Civil Protection, in charge for first response and management in case of these emergencies.

The goal of the conference was to improve the knowledge of dangers in accidents involving dangerous substances, both in the shipment and in industrial sites.

The program, reported below, included many case studies or drills regarding road accidents, fires, leakages, explosions, involving different types of dangerous substances, such as sulphur, Liquid Petroleum Gas, sodium hypochlorite, methane, Liquid Natural Gas.

The speakers were: Commanders from different Portuguese Fire Brigades or from other Countries (Spain, Italy and France); Heads of local Civil Protection Department and chemical companies Engineers.





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In the context of the Community action of development and innovation FIRE-IN, the Italian National Fire Corps decided to have a part in the conference reporting the LPG tanker truck explosion occurred in Bologna on 6 August 2018. This event attracted much attention in the media and the news spread throughout the whole world, thanks to the pictures and videos taken during the trucks fire and the following explosion.

The case study was presented using the slides attached to this brief, reporting:

- Overview of the Italia National Fire Corps Organization;
- Description of the accident (when, where, why, consequences in terms of victims and damages);
- Physics and effects of Boiling Liquid Expanding Vapour Explosions;
- Rescue system response (fire department, law enforcement, medical supply, civil protection);
- Critical issues and actions taken in order to reduce the impact of further similar accidents.

The seminar was attended by near 200 people.





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The event was highly appreciated by participants for all the interesting case studies presented.

It was a good opportunity for first responders to share experiences and discuss best practices in hazmat accidents, in order to protect people, rescuers and environment and also to minimize the economic damage.

Gianfranco Tripi



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