



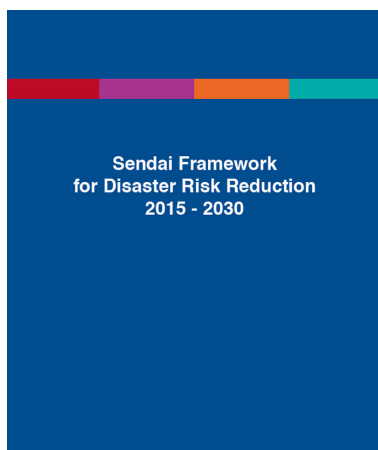
## ***New Emergency Management in a Resilience Era Facing Health, Climate and Energy Challenges***

***6<sup>th</sup> to 10<sup>th</sup> December 2021***

Date and slot of presentation to be  
filled in shortly

Michel Bour, SAFE Cluster – Manager European  
project FIRE-IN

## **Boosting citizen's awareness with the support of Fire and Rescue practitioners to accelerate implementation of the Sendai Framework**



4 Priorities

**Priority 1. Understanding disaster risk**

**Priority 2. Strengthening disaster risk governance to manage disaster risk**

**Priority 3. Investing in disaster risk reduction for resilience**

**Priority 4. Enhancing disaster preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction**



## European FIRE-IN Project



- Coordinated by SAFE Cluster



## SAFE Cluster

**+400**  
MEMBERS  
IN FRANCE



**53%**  
TPE / PME

**20%**  
ACADÉMIQUES

**20%**  
AUTRES

**5%**  
GG / ETI



## SAFE Cluster



### Our missions :

- Support the network in the development of technologies / services for the **safety of citizens** and users in cities, transport and the natural environment
- **Federate and create links between the different actors** : solution / service providers (to detect, analyze, decide, act, support) and end users (communities, fire and rescue services, etc.)





# FIRE-IN

## 5 Thematic Working Groups + involvement of Associated Experts



**A. Search and Rescue (SAR) and emergency Medical Response**

CES,  
SAFE, ENSOSP, CNVVF, CAFO



**B. Structures fires**

CNVVF  
ENSOSP, CAFO, SGSP, MSB



**C. Vegetation fires**

GFMC  
CFS, PCF, MSB, KEMEA



**D. Natural disasters**

THW  
MSB, CNVVF, CFS, KEMEA



**E. CBRNE**

CAFO  
ENSOSP, SGSP, KEMEA,  
CNVVF



FIRE-IN  
Associated Experts (AE) community  
(international community including key thematic practitioner experts from public, private, NGOs bodies, and representative of thematic working groups from existing networks)

1000 experts expected



## **FIRE-IN**



The main objective of FIRE-IN is to improve the national and European Fire & Rescue capability development process by fostering innovation in this domain and promoting innovative solutions to recognize needs.

This may significantly reduce residual risks and raise the security level of EU citizens.

FIRE-IN addresses the concern that capability-driven research and innovation in this area need much stronger guidance from practitioners and better exploitation of the technology potentially available for the discipline.

<http://fire-in.eu> : the one stop shop for Fire and Rescue Innovation and Research

## **FIRE-IN**

Three main identified needs by the consortium of the project :

1. Improving awareness, preparation and training of the population, based on the observation that in the event of a major crisis, the civil protection response is hampered if the population is not prepared
2. Common procedures, interoperable tools for sharing information, and common inter-service/ inter-border training
3. Tools and procedures for information and data sharing with the population and field workers in real time during the crisis





**Fire-In: Overview of prioritized capability challenges (PCCs) identified in the second cycle of workshops**

**Community involvement**

- Change of paradigm. From 'We, authorities, will protect you' to 'You, citizen, should be actively involved'. These affirmations mean that the citizen should be prepared to be self-sufficient concerning their own protection and their community protection always inside the framework of the emergency.
- Build trust involving communities and key stakeholders in risk management permanently: from risk awareness to the preparation of scenarios, to the decisions and behaviour during the emergency, to verifications, to drills and exercises.
- Be prepared to provide massive alerts to population.
- Train/educate/inform general population starting from scratch and in a basic and easy way, about knowledge of risk and appropriate behaviours, specially targeting those more exposed and vulnerable. Educate kids and young ones.
- Address all phases of emergency and the different levels of risk. Provide tools to facilitate adequate decision-making: checklists, emergency kits ...

## **Black Saturday Wildfires in Australia 7 February 2009**

- The research highlighted many issues and challenges on Black Saturday, including limited awareness and preparedness for bushfire risk, a tendency for people to leave or evacuate at the last moment and the inadequacy of preparedness and defensive actions in fires burning under what are now considered 'Catastrophic' fire danger conditions.
- The research also compiled evidence and examples of highly effective preparedness and response.
- A paradigm change for fire services from responding to fires with ever more resources, to engaging the population and placing more responsibility in their hands (preparedness & during crisis); **"firewise" or "fire smart"** approaches are also very effective in achieving awareness, preparedness and prevention measure.



## Firewise

[Public Education](#) / [Fire causes & risks](#) / [Wildfire](#) / [Firewise USA®](#) / [How to become a Firewise USA® site](#)



### How to become a Firewise USA® site



The involvement of citizens in wildfire risk reduction and fire prevention is becoming more important in areas with a high wildfire risk. There are several actions that citizens living in communities exposed to wildfires can do to make those communities more aware of the risk and less vulnerable. For more than 20 years, the NFPA has implemented the FIREWISE program on more than 20,000 communities in the US

NFPA's Firewise USA® program teaches people how to adapt to living with wildfire and encourages neighbors to work together and take action now to prevent losses

The Firewise USA® program is administered by NFPA® and is co-sponsored by the USDA Forest Service and the National Association of State Foresters.

## ***New Emergency Management in a Resilience Era Facing Health, Climate and Energy Challenges***

The FIREWISE program landed in Europe a few years ago with a lot of potential to make a difference in a continent that is densely populated and most of its population lives in WUIs (Wildland Urban interface).

In Spain, the Pau Costa Foundation is NFPA's wildfire partner.

**Agreement with the NFPA**  
**Firewise in Spain to advance in the preparation for forest fires**



**FIREWISE USA™**  
Residents reducing wildfire risks



## **FireSmart**

FireSmart Canada is a national initiative to help property owners and communities understand the ways in which wildfire might threaten structures and property located in, and close to, forested and wildland areas, and the steps individuals and communities can take to reduce the susceptibility of buildings and property to fire.

*New Emergency Management in a Resilience Era Facing Health, Climate and Energy Challenges*



The FireSmart program is implemented through seven disciplines to help neighbourhoods address the threat of wildfire: education, emergency planning, vegetation management, legislation, development, interagency cooperation and cross training.





# FireSmart

## Tips to FireSmart Your Home

Taking action to FireSmart your property will dramatically decrease the risk of wildfire damaging your home. The best part is, it's surprisingly easy to do.

- Clean under your deck to remove any combustible material. Establish a 1.5 metre non-combustible zone around the perimeter of the house and deck.
- Clean and maintain gutters and roofs. Keep decks and balconies clear of leaves and debris.
- Keep grass and weeds cut below 10 centimetres.
- Have a wildfire evacuation plan and make sure everyone in your household knows what to do.
- Download the [FireSmart home assessment](#) and do a self-assessment of your home and property.
- Hold sheds and other structures to the same standards as your home.
- Relocate propane tanks 10-30 metres from your home, and keep combustible vegetation a minimum of 10 metres from propane tanks.
- Move firewood and lumber 10-50 metres away from home.
- Prune trees to create a two-meter clearance from the ground to the lowest branches.
- Add non-combustible 3 millimetre screens to external vents (except dryer vents).
- Reduce the flammability of your landscaping and plant wildfire resistant vegetation. [Learn landscaping.](#)

BRITISH COLUMBIA  
**FireSmart**

Learn more at [FireSmartBC.ca](https://www.firesmartbc.ca)

## **FIRE-IN**

### **2. Common procedures, interoperable tools for sharing information, and common inter-service/ inter-border training**

Crises of a cross-border nature make it difficult to identify the current event. Yet authorities need to enable effective collective action in the face of transboundary problems that no Member states can address on their own.

Feedback on the health crises induced by the Covid-19 pandemic.

As soon as the COVID has started to challenge the F&R services in EU, FIRE-IN has also become a focal point for practitioners to deposit and share best practices, guidelines and innovations.

In that perspective, it has served as a shared and remote test-bed to improve the response capability face to a common challenge in the whole Europe and beyond.



## **FIRE-IN**

### **2. Common procedures, interoperable tools for sharing information, and common inter-service/ inter-border training**

Coronavirus: European countries share their best Practices!

Coronavirus outbreak: Best practices, guidelines from European countries and Fire and Rescue services (+ more)

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**The FIRE-IN Newsletter**

**COVID-19 Special Edition  
Best practices and guidelines from European Fire and  
Rescue services**



## FIRE-IN

### 2. Common procedures, interoperable tools for sharing information, and common inter-service/ inter-border training

#### Compilation of English content on guidelines and recommendations:

- Rapid risk assessment: Novel coronavirus disease 2019 (COVID-19) pandemic: increased transmission in the EU/EEA and the UK – sixth update (file): [here](#)
- Critical preparedness, readiness and response actions for COVID-19 [by World Health Organization \(file\)](#)
- Q&A on infection prevention and control for health care workers caring for patients with suspected or confirmed 2019-nCoV ([webpage](#)): [here](#)
- [Global Recommendations for Emergency Services Organisations to manage the outbreak of COVID-19](#)
- In the face of the COVID-19 pandemic, another H2020 funded project, MEDEA has resolved to provide reliable and consistent information updates that would be useful to all network practitioners, [visit their specific COVID-19 information page](#)
- From EENA, the European Emergency Number Association: COVID-19: **GLOBAL RECOMMENDATIONS FOR EMERGENCY SERVICES**
- First responders Mental Health: [5 ways first responders can focus on mental health during the COVID-19 pandemic](#)
- Live updates COVID-19: [European cities respond to the coronavirus crisis](#)

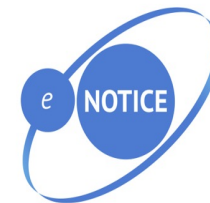


## 2. Common procedures, interoperable tools for sharing information, and common inter-service/ inter-border training

### AN EVENT DEDICATED BY PRACTITIONERS FOR PRACTITIONERS

In the field of civil protection, just-in-time training is provided to practitioners to enable the rapid acquisition of specific skills or knowledge when the need arises.

Five pan-European networks of security practitioners were jointly invited to participate in live webinars and featured top speakers from different backgrounds, in order to provide first-hand information and experience gained from real disasters.



**JUST-IN-TIME TRAINING  
A JOINT LIVE WEBINAR ON BEST PRACTICES AND  
METHODOLOGIES IN THE MEDICAL, FLOOD RESPONSE AND CBRN  
FIELDS  
18 JUNE 2020, 10:00 CEST**

2.

**COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT**

Brussels, 15.6.2021

Drawing the early lessons from the COVID-19 pandemic

**Three lessons learnt for future health response:**

- The decisive role of EU coordination
- Resilience of the EU policy coordination system
- EU role on the global stage

**TEN LESSONS OF COVID-19 FOR PUBLIC HEALTH POLICY**

Lesson One: Faster detection and response depends on stronger global surveillance and more comparable and complete data

Lesson Two: Clear and coordinated scientific advice facilitates policy decisions and public communication

Lesson Four: Emergency tools need to be ready, faster and easier to activate

Lesson Five: Coordinated measures should become a reflex for Europe

Lesson Nine: Pandemic preparedness and response is a global priority for Europe

Lesson Ten: A more coordinated and sophisticated approach to misinformation and disinformation should be developed

## **FIRE-IN**

### **3. Tools and procedures for information and data sharing with the population and field workers in real time during the crisis**

#### **Flash Flood**



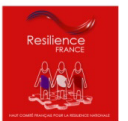
# Flash Flood

## Fire-In: Community Awareness Raising

Generally shifting the awareness to living with a risk acceptance from “We (the Authority) protect YOU (citizen)” to “YOU (citizen) need to be fully involved”

This can be done by:

- Access of the public to emergency plans
- Information on risks like flash floods, dyke breaches compulsory if a person buys a property or builds a house
- Involvement of the private sector into the planning process to use synergies between governmental institutions, other public authorities and the private sector via:
- Training of all groups involved and hit by the flash flood in the same language (on operations) and a simple way to read data



## **Flash Flood**

- Information of the public with concrete risks broken down on the area of affected households and companies is required with advise how to mitigate risks
- Standardization of public information throughout Europe. This can be done by:

Private mobile phone e.g. apps with standardized information and advice on risk mitigation measures

Specific channel on the radio and TV for crises with similar information



## **FIRE-IN**

### **3. Tools and procedures for information and data sharing with the population and field workers in real time during the crisis**

#### **Project: Universal Multi-Alert Platform**

Needs :

- Search and visualize all available information
- Process the data for decision support
- Visualize the information in a synthetic way
- Mobilize the required resources
- Alert citizens in danger in a targeted way

Projet PUMA-X

**P**late-forme

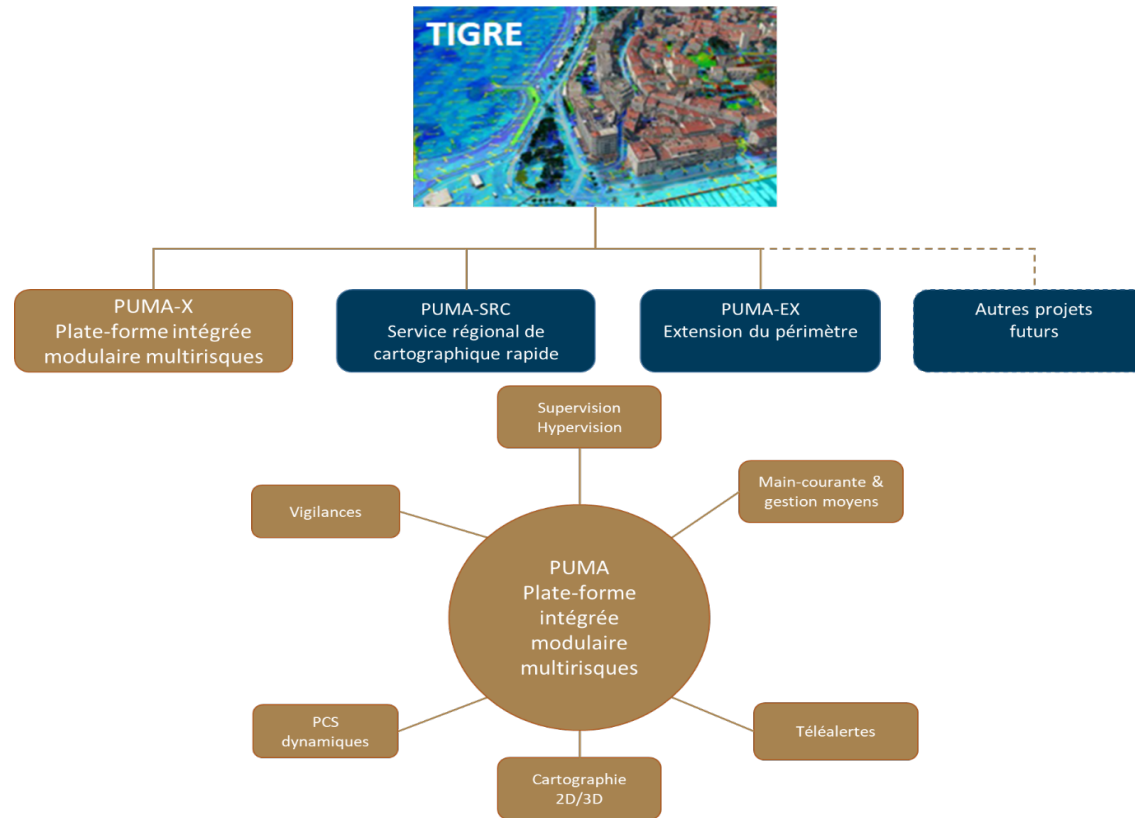
**U**niverselle

**M**ulti

**A**lertes

## FIRE-IN

- **3. Tools and procedures for information and data sharing with the population and field workers in real time during the crisis**



## Example: PREDICT: a Team of Experts

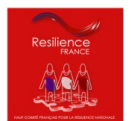
**EXPERTISE in :**  
**HYDRAULICS AND HYDROLOGY, METEOROLOGY, SATELLITE IMAGERY**

Core business: **BESPOKE PREVENTION SERVICES**

The key component of the services involves continuous hydrometeorological monitoring (24/7). This allows to inform their users immediately of any risk of flooding, coastal flood, windstorm or heavy snowfall.

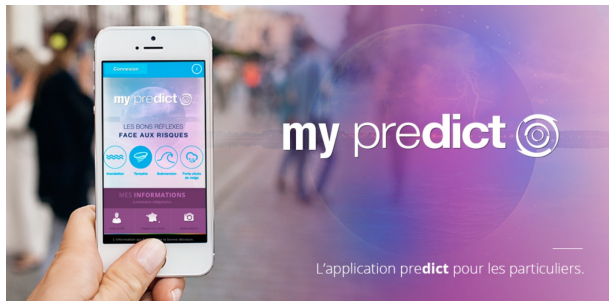
**ASSISTING RISK MANAGERS BEFORE, DURING AND AFTER RISK PHENOMENA.**

**HELPING MUNICIPALITIES to manage the risk**



# PREDICT: a Team of Experts

## Helping citizens adopt the right attitude towards risks



Predict has designed a decision support system, with a cartographic support, exclusively for individuals: the "Mypredict" application.



After defining your profile, you can access a diagnosis of the risk in your community and preventive instructions adapted to the extent of the phenomenon concerning you





The slide features a background with a glowing orange sun on the left, casting light across a grid of lines that form a globe. A large, stylized number '1' is positioned on the right side of the slide.

# FIRE-IN

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