Common template for risk assessment and management operational tools and best practices identification (Action B1)

Title: Operational Tools and Best Practices for Risk Assessment and Management

The identification of tools and best practices on risk assessment and management helps providing an idea of the state of the art in the field. By completing this form, the best practice will be included in the knowledge repository platforms and available for the practitioner community to use. We encourage the user to complete as many fields as possible from the template in order to provide the most relevant information needed to apply the best practice to other practitioners. Instructions:

- Blue boxes are mandatory fields
- More than one item can be selected in multiple choice boxes

Document classification

Title	**Operative exchanges to implement fire analyst methodologies**
Description *[1 sentence]*	**Exchanges of personnel to share knowledge on fire dynamics and fire weather analysis**
Country, location	**International (Portugal, France, Italy…)**
Date	**Since 2011**
Contact e-mail	**info@paucostafoundation.org**
Institution	**Pau Costa Foundation with partnership with Fire and Rescue Services from across Europe**
Net Risk Work Partner	**PCF**
Document type	**Best practice**
Language	☐Catalan ☒English ☐French ☐German ☐Italian ☐Spanish ☐Other
Source/origin	☒Partner's expertise ☐Expertise from the network ☐Other (internet)

Topic

Area	☒Risk assessment		☒Risk Planning	☒Risk Management
Risk	☒**Wildfires**	☒Fire behaviour patterns and typologies ☐Fire ignition and spread models ☐Wildland urban interface		☐Fuel management ☒Fire service needs ☐Prescribed burning ☒Other *Fire weather analysis*
	☐**Storms**	☐First measures after storm ☐Work safety during salvage logging ☐Timber storage and cost containment ☐Forest protection and pest control		☐Regeneration and afforestation ☐Preventive sylvicultural measures ☐Other *[Introduce which ones]*
	☐**Avalanches**	☐Technical protective measures ☐Maintenance of protection forests		☐Other *[Introduce which ones]*
	☐**Floods**	☐Prevention through land use management ☐Technical protective measures		☐Other *[Introduce which ones]*
	☐**Other**			*[Introduce which ones]*
Cross-sectoral topics	☒Risk and vulnerability assessment and mitigation		☐ Risk planning, governance and policy framework	

	☐ Cost-effectiveness assessment ☐ Civil protection, emergency and post-disaster management	☐ Community involvement and risk communication ☐Other: [Introduce which ones]

Level	☒Local ☒Regional ☒National ☒Cross-border ☐EU ☐Global
DRM cycle phase	☐Prevention ☒Preparedness ☒Response ☐Recovery
DRM domain	☐Policy making ☐Early warning system ☒Disaster response
Sendai 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
Contribution to Sendai Targets	☐Reduce global disaster mortality ☐Reduce the number of affected people ☐Reduce the direct disaster economic loss ☐Reduce disaster damage to critical infrastructure ☒Increase the number of national and local disaster risk reduction strategies ☒Enhance international cooperation to developing countries ☐Increase availability of and access to multi-hazard early warning systems and disaster risk information and assessment

Description and analysis

Summary: quick presentation of the Good Practice • The exchange of lessons learnt, knowledge and methodologies trough expert technicians have been proved as the most useful way to build an efficient network of end-users in Europe. • Due to years of experience of forest firefighting, the methodologies for fire dynamics and fire weather analysis developed in Catalonia are internationally recognized and can help to building an integrated network of emergency services in Europe, trough sharing methods and using same terminology in fire analysis, assessment of risk, etc. • These knowledge and methodologies, after adapted and translated into each fire service, contribute to increase preparedness and efficiency of response phase, as well as to provide more accurate and efficient response to answer "request for assistance" situations or during cross-border events
Place in national/regional policy • No place in national or regional policies.
Goals and achievements • To implement existing, recognized and truthful methodologies for fire and weather analysis • To share and implement tools for wildfire risk assessment, based on lessons learnt • To define and implement strategies and tactics based on the forecasting of fire behaviour, as well as to be used as a tool to assess the needs of resources of an emergency and to size its response • To implement a common framework of wildfire analysis for cross-border events and "request for assistance" situations
Actors involved • The exchange is made among end-users, usually fire services, but could be implemented trough civil protection entities or forest services.
Implementation stage • Fully operational. PCF has done three main exchanges in Portugal, France and Italy. The experiences are implemented, fully operative and running, especially in France.
State of technical knowledge

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• Knowledge and methodologies are based on the experiences in Catalonia, developed by Catalan Fire Service and the Campbell Prediction System (CPS).	
Context *[regulatory, socio-economic, political]* *[free text – 5 lines max]*	

Detailed Characteristics [*Objective: detail the implementation conditions of the Good Practice*]
Description of the implementation steps 1. Hosting. At least 1 experienced technician in fire dynamics and fire weather analysis will visit the fire service interested in implementing these methodologies. The technician will identify needs and particularities of the fire service and will adapt the methodologies to it. The technician should visit and participate in as many as possible wildfire emergency response situations, where will assist and asses fire officers during the emergency response 2. When. The exchange should be carried out during the fire season, or fire risk period 3. Duration. The duration should be, at least 1 month
Governance • Responsible: fire chief officer from fire service that host the invited technician.
Necessary means to implement the Good Practice in efficient conditions • 1 experienced technician, expert on the field of fire dynamics and fire weather analysis
Challenges encountered during implementation and solutions incurred • The identification and the understanding of needs and particularities of each fire and emergency service, and adapt to them the fire analysis methodologies, the strategies and tactics
Priorities identified for successful implementation of the Good Practice 1. To assign a liaison officer between the fire service and the visiting technician who must speak both languages 2. To properly explain to the fire service the aim of hosting a technician from another emergency service

Impact of the Good Practice [*Objective: evaluate the impact of the Good Practice*].
• To provide new tools for the preparedness and response phase • To share knowledge and lessons learnt • To build and participate in the international network of end-users

Future developments [*Objective: understand the follow-up perspectives*]
• The best practice will continue to be implemented in other fire and rescues services • The best practices shall be adapted to the needs of the hosting institution

External resources [*Objective: provide further information*]	
Attached materials	*[include format (document, photo, video…) and name of the file]*
Web links	
Contacts	

[Additional information - optional]

Lessons learnt [*Objective: compare the results obtained to the objectives set at the start of the Good Practice*]

Evaluation process, if exists (internal or external)
[free text – 5 lines max]
Assessment of results (quantitative and qualitative) and comparison with main goals
[free text – 5 lines max]
Negative aspects identified
[free text – 5 lines max]
Unexpected consequences (short / mid / long term) and corrective measures implemented
[free text – 5 lines max]

Durability and transferability [*Objective: evaluate the integration of the Good Practice and its sustainability, give recommendations for transferability*]			
Is this information:	**Replicable** ■	**Measurable** ☐	
Regulatory Framework *[free text – 5 lines max]*			
Stability of the human environment *[Stability of partnership, structures, population enabling successful implementation and positive impact in the long term]* • The experts that can participate in the exchange shall be available			
Financial requirements *[business model]* • The hosting institution will cover the expenses of the exchange			
Success factors *[political, technical, human, financial...]* *[free text – 5 lines max]*			
Risk factors *[legal, financial, safety…]* *[free text – 5 lines max]*			
Additional and non-formal experiences contributing to the implementation of Good Practice *[free text – 5 lines max]*			

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