

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

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|---|---|
| Title | Tactical Fire Course |
| Description <i>[1 sentence]</i> | International courses on training the use of fire as a tactical tool for prescribed burning programs or fire suppression operations |
| Country, location | Catalonia, UK, Spain, Denmark, France |
| Date | Since 2011 |
| Contact e-mail | info@paucostafoundation.org |
| Institution | PCF – Catalan Fire Service |
| Net Risk Work Partner | PCF |
| Document type | Best practice |
| Language | <input type="checkbox"/> Catalan <input checked="" type="checkbox"/> English <input type="checkbox"/> French <input type="checkbox"/> German <input type="checkbox"/> Italian <input type="checkbox"/> Spanish <input type="checkbox"/> Other |
| Source/origin | <input checked="" type="checkbox"/> Partner's expertise <input type="checkbox"/> Expertise from the network <input type="checkbox"/> Other (internet) |

Topic

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| Area | <input type="checkbox"/> Risk assessment | <input type="checkbox"/> Risk Planning | <input checked="" type="checkbox"/> Risk Management |
| Risk | <input checked="" type="checkbox"/> Wildfires | <input checked="" type="checkbox"/> Fire behavior patterns and typologies <input type="checkbox"/> Fire ignition and spread models <input type="checkbox"/> Wildland urban interface | <input checked="" type="checkbox"/> Fuel management <input checked="" type="checkbox"/> Fire service needs <input checked="" type="checkbox"/> Prescribed burning <input type="checkbox"/> Other |
| | <input type="checkbox"/> Storms | <input type="checkbox"/> First measures after storm <input type="checkbox"/> Work safety during salvage logging <input type="checkbox"/> Timber storage and cost containment <input type="checkbox"/> Forest protection and pest control | <input type="checkbox"/> Regeneration and afforestation <input type="checkbox"/> Preventive silvicultural measures <input type="checkbox"/> Other <i>[Introduce which ones]</i> |
| | <input type="checkbox"/> Avalanches | <input type="checkbox"/> Technical protective measures <input type="checkbox"/> Maintenance of protection forests | <input type="checkbox"/> Other <i>[Introduce which ones]</i> |
| | <input type="checkbox"/> Floods | <input type="checkbox"/> Prevention through land use management <input type="checkbox"/> Technical protective measures | <input type="checkbox"/> Other <i>[Introduce which ones]</i> |
| | <input type="checkbox"/> Other | | <i>[Introduce which ones]</i> |
| Cross-sectoral topics | <input checked="" type="checkbox"/> Risk and vulnerability assessment and mitigation <input type="checkbox"/> Cost-effectiveness assessment | <input type="checkbox"/> Risk planning, governance and policy framework <input type="checkbox"/> Community involvement and risk | |



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| | <input type="checkbox"/> Civil protection, emergency and post-disaster management <input type="checkbox"/> communication <input type="checkbox"/> Other: [Introduce which ones] |
| Level | <input checked="" type="checkbox"/> Local <input checked="" type="checkbox"/> Regional <input type="checkbox"/> National <input type="checkbox"/> Cross-border <input type="checkbox"/> EU <input type="checkbox"/> Global |
| DRM cycle phase | <input checked="" type="checkbox"/> Prevention <input checked="" type="checkbox"/> Preparedness <input checked="" type="checkbox"/> Response <input type="checkbox"/> Recovery |
| DRM domain | <input type="checkbox"/> Policy making <input type="checkbox"/> Early warning system <input checked="" type="checkbox"/> Disaster response |
| Sendai priorities | <input type="checkbox"/> Priority 1: Understanding disaster risk <input type="checkbox"/> Priority 2: Strengthening disaster risk governance to manage disaster risk <input checked="" type="checkbox"/> Priority 3: Investing in disaster risk reduction for resilience <input checked="" type="checkbox"/> Priority 4: Enhancing disaster preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction |
| Contribution to Sendai Targets | <input type="checkbox"/> Reduce global disaster mortality <input type="checkbox"/> Reduce the number of affected people <input checked="" type="checkbox"/> Reduce the direct disaster economic loss <input type="checkbox"/> Reduce disaster damage to critical infrastructure <input checked="" type="checkbox"/> Increase the number of national and local disaster risk reduction strategies <input checked="" type="checkbox"/> Enhance international cooperation to developing countries <input type="checkbox"/> Increase availability of and access to multi-hazard early warning systems and disaster risk information and assessment |

Description and analysis

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| <p>Summary: quick presentation of the Good Practice</p> <ul style="list-style-type: none"> The use of fire as a tool for suppression operations and as a tool for fuel reduction through prescribed burning programs, has been proved as very efficient and more cost-effective than other techniques. The organization of international courses of the use of fire as a tool is an opportunity to share knowledge and techniques that contributes to build a strong European network of fire practitioners. Also, the use prescribed fire has been recognized as ecologically beneficial for forest ecosystems, and contributes to reduce fire risk and CO2 emissions. |
| <p>Place in national/regional policy</p> <ul style="list-style-type: none"> Regional policy recognise fire as a tool to be used during suppression operations and as a tool for fuel management. |
| <p>Goals and achievements</p> <ul style="list-style-type: none"> To disseminate the advantages of using fire as cost-effective and more efficient tool than other techniques. To train fire fighters in using fire as fuel reduction tool. To contribute on implementing prescribed burning programs. To increase preparedness and training of firefighters for forest fire events. |
| <p>Actors involved</p> <ul style="list-style-type: none"> Fire and forest services, fire practitioners, land managers, land owners, etc. |
| <p>Implementation stage</p> <ul style="list-style-type: none"> Fully operational. PCF has organised 6 international fire courses. The experiences are implemented, fully operative in Northumberland, Scotland, Navarra region, Denmark and south of France. |
| <p>State of technical knowledge</p> <ul style="list-style-type: none"> Knowledge and methodologies are based on the experiences in Catalonia and Spain, |

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| developed by Catalan Fire Service and others Forest services in Spain. | |
| Context | <ul style="list-style-type: none"> Each region has their own fire regulations, and must be understood before implementing prescribed burning programs. |

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| Detailed Characteristics [<i>Objective: detail the implementation conditions of the Good Practice</i>] | |
| Description of the implementation steps | <ol style="list-style-type: none"> Understanding of local/regional regulations and context related with use of fire as a tool for fire risk reduction, etc. Organisation of international course Deployment of the course |
| Governance | |
| Necessary means to implement the Good Practice in efficient conditions | <ul style="list-style-type: none"> 1 instructor per 5 trainees. To have plots to be burned as practical scenarios. |
| Challenges encountered during implementation and solutions incurred | <ul style="list-style-type: none"> To understand the needs and particularities regarding the use of fire in the different EU countries. |
| Priorities identified for successful implementation of the Good Practice | <ol style="list-style-type: none"> To assign a liason officer between attendees and course instructors. To understand the needs and particularities with the use of fire in the different EU countries. To have enough scenarios where students will be deployed and trained by trainees. |

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| Impact of the Good Practice [<i>Objective: evaluate the impact of the Good Practice</i>]. | |
| <ul style="list-style-type: none"> To build an European network of fire practitioners. To provide new technics for fire reduction. To provide new tools to implement suppression operations that include the use of fire. | |

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| Future developments [<i>Objective: understand the follow-up perspectives</i>] | |
| <ul style="list-style-type: none"> To implement national prescribed burning programs. To recognize use of fire as a cost-effective tool at a EU level. | |

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| External resources [<i>Objective: provide further information</i>] | |
| Attached materials | <i>[include format (document, photo, video...) and name of the file]</i> |
| Web links | |
| Contacts | |

[Additional information - optional]

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| Lessons learnt [<i>Objective: compare the results obtained to the objectives set at the start of the Good Practice</i>] | |
| Evaluation process, if exists (internal or external) | <ul style="list-style-type: none"> The students take an exam (teoric and practical) at the end of the course. |
| Assessment of results (quantitative and qualitative) and comparison with main goals | |
| <i>[free text – 5 lines max]</i> | |

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

- The courses can only be implemented if the regulations of the country allow the implementation of tactical fire as a tool.

Stability of the human environment *[Stability of partnership, structures, population enabling successful implementation and positive impact in the long term]*

[free text – 5 lines max]

Financial requirements *[business model]*

- The hosting institution covers the expenses of the course.
- The cost of the course will be adapted to the particular requirements of each case.

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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