

*Planted Forest Facility & IEFC
annual meeting, Porto, 26-28th
June 2018*



net risk work



Funded by
European Union
Humanitarian Aid
and Civil Protection

Networking for the European Forest Risk Facility initiative

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CTFC



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Forest Research Institute
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net risk work



Networking for the European Forest Risk Facility initiative
Planted Forest Facility & IEFC annual meeting, Porto, 26-28th June 2018



Project context



Funded by
European Union
Humanitarian Aid
and Civil Protection

https://ec.europa.eu/echo/funding-evaluations/financing-civil-protection-europe/selected-projects_en

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English (en)

EUROPEAN CIVIL PROTECTION AND HUMANITARIAN AID OPERATIONS

European Commission

European Commission > European Civil Protection and Humanitarian Aid Operations > Funding & Evaluations > Financing civil protection

HOME WHO WE ARE WHAT WE DO WHERE WE WORK PARTNERSHIPS FUNDING & EVALUATIONS RESOURCES & CAMPAIGNS NEWS & STORIES

Selected projects

Photo credit: EU/ÉCHO

You can search any keyword in project titles, abstracts and tags.

Find a project Search

Projects selected under the annual Call for Proposals for Prevention and Preparedness in Civil Protection

Projects 2017	Projects 2008
Projects 2016	Projects 2007
Projects 2015	Projects 2006
Projects 2014	Projects 2005
Projects 2013	Projects 2004
Projects 2012	Projects 2003

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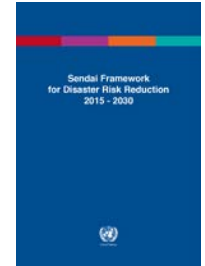
MORE INFORMATION

- Enhanced Response Capacity Funded Projects 2011-2012
- List of EU-supported civil protection exercises
- Kick-off 2016 Technical
- Grant agreement specific administrative and financial issues



DG ECHO International frameworks references

✓ Sendai Framework for Disaster Risk Reduction 2015 - 2030



Priority 1
Understanding
disaster risk

Priority 2
Strengthening disaster risk
governance to manage
disaster risk

Priority 3
Investing in disaster risk
reduction for resilience

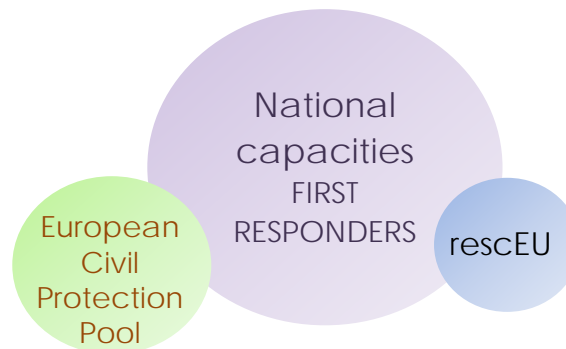
Priority 4
Enhancing disaster preparedness for
effective response, and to «Build
Back Better» in recovery,
rehabilitation and reconstruction

✓ Strengthening EU Disaster Management: rescEU Solidarity with Responsibility (COM(2017) 773)

1. REINFORCED PREVENTION

1. Completing the full Disaster Risk Management Cycle
2. Optimising the use of existing EU funds on Disaster Prevention

2. INCREASED PREPAREDNESS & RESPONSE



3. ADMINISTRATIVE SIMPLIFICATION

- A less complex set of rules to react faster
- De-activation clause
- Facilitate synergies with other response funding instruments
- Enhanced training activities



Project context



The great flood of 1607, Britain's worst natural disaster.

<http://theconversation.com/total-flood-defence-is-a-myth-we-must-learn-to-live-with-the-water-22670>

To learn takes time!
Networking and knowledge
exchange helps to accelerate it

10 February 2014, 5.54am GMT

**Total flood defence is a myth: we
must learn to live with the water**



Sometimes the choice is to flood town or country. Sometimes it's both. *Sam Brownell*



Project context

Integrated approach managing risk

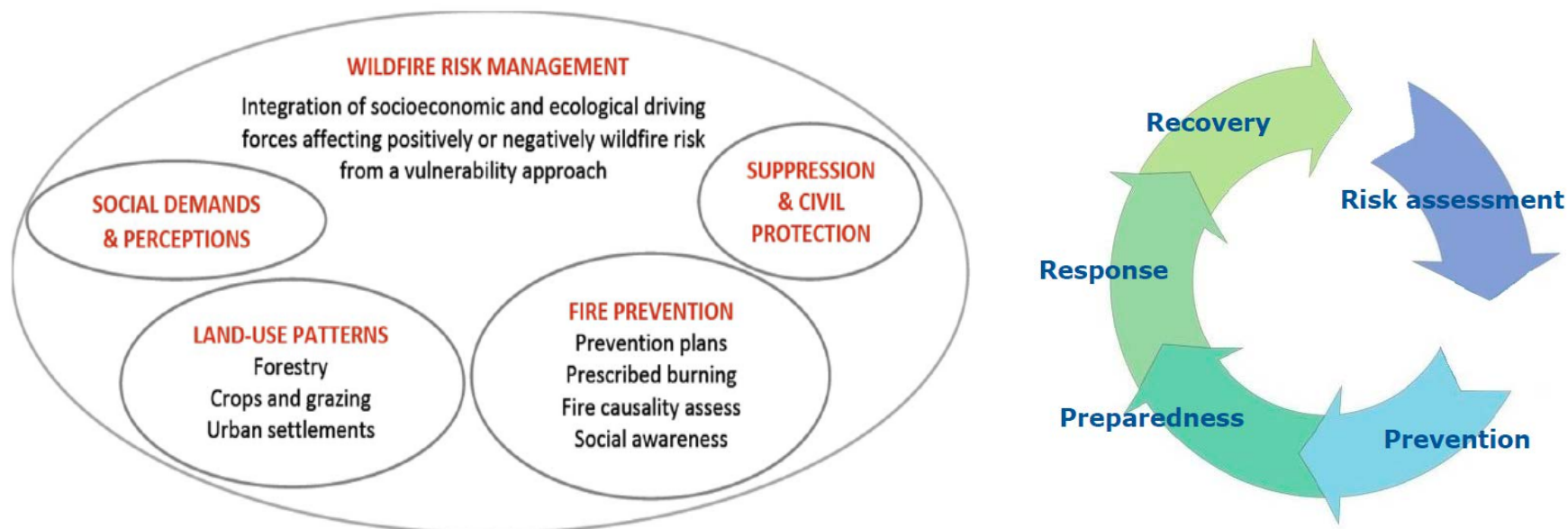


Figure 3. Components of an integrated approach of Wildfire Risk Management.

Plana, et al. 2015



Project title: **Networking for the European Forest Risk Facility Initiative**

Beneficiary and partners:

Forest Sciences and Technology Centre of Catalonia- CTFC (Spain) - Coordinator

European Forest Institute - Central European Regional Office - EFICENT (Germany)

Forest Research Institute of Baden-Württemberg – FVA (Germany)

The Civil Protection General Directorate of Autonomous Region of Sardinia- DGPC RAS (Italy)

Entente pour la forêt Méditerranéenne – EPLFM_VALABRE (France)

Fire Ecology and Management Foundation Pau Costa Alcubierre – PCF (Spain)

Collaborators: Forestry Commission - Forest Services & Forest Research (United Kingdom)

Total project eligible cost: **811.489 €**

Starting date: **01/01/2017**

Ending date: **30/11/2018**

Duration in month: **23**

<http://netriskwork.ctfc.cat>



net risk work

NET RISK WORK Rationale: Under several climate change scenarios several regions seems undergo increased risk of different natural disasters with higher severity events, new areas affected or new risks interactions (i.e., the wildfires burning the forest cover and increasing flood or avalanche risk).

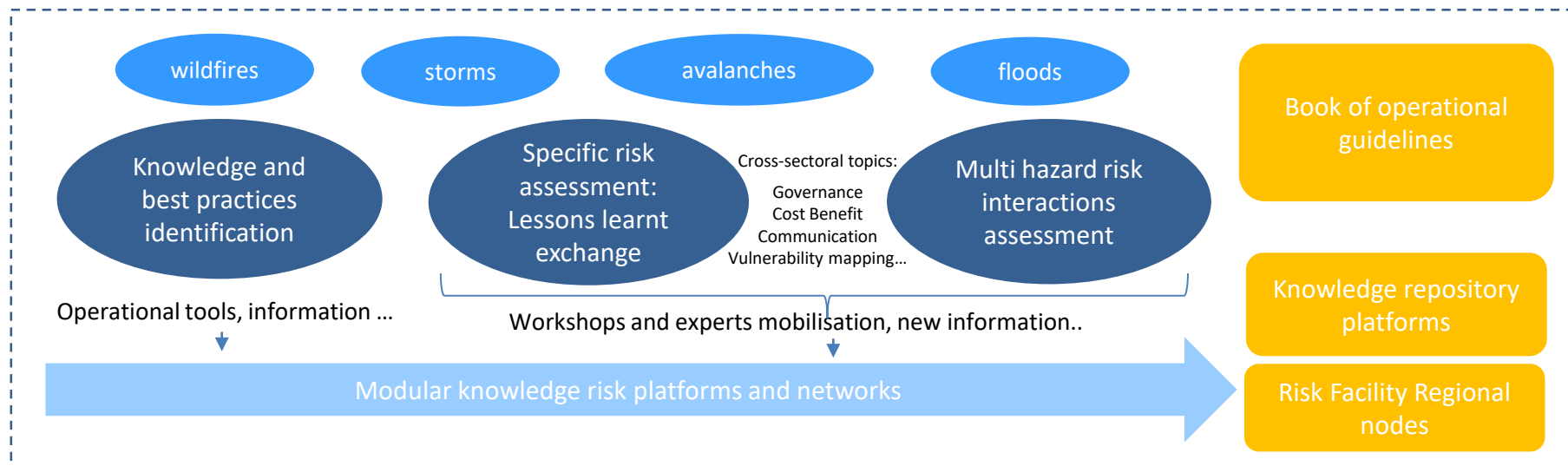


Wildfires, pest and diseases and avalanche risks interaction in *Spruce spp.* forest in alpine mountains (Trin, Switzerland. Photo: E.PLANA)



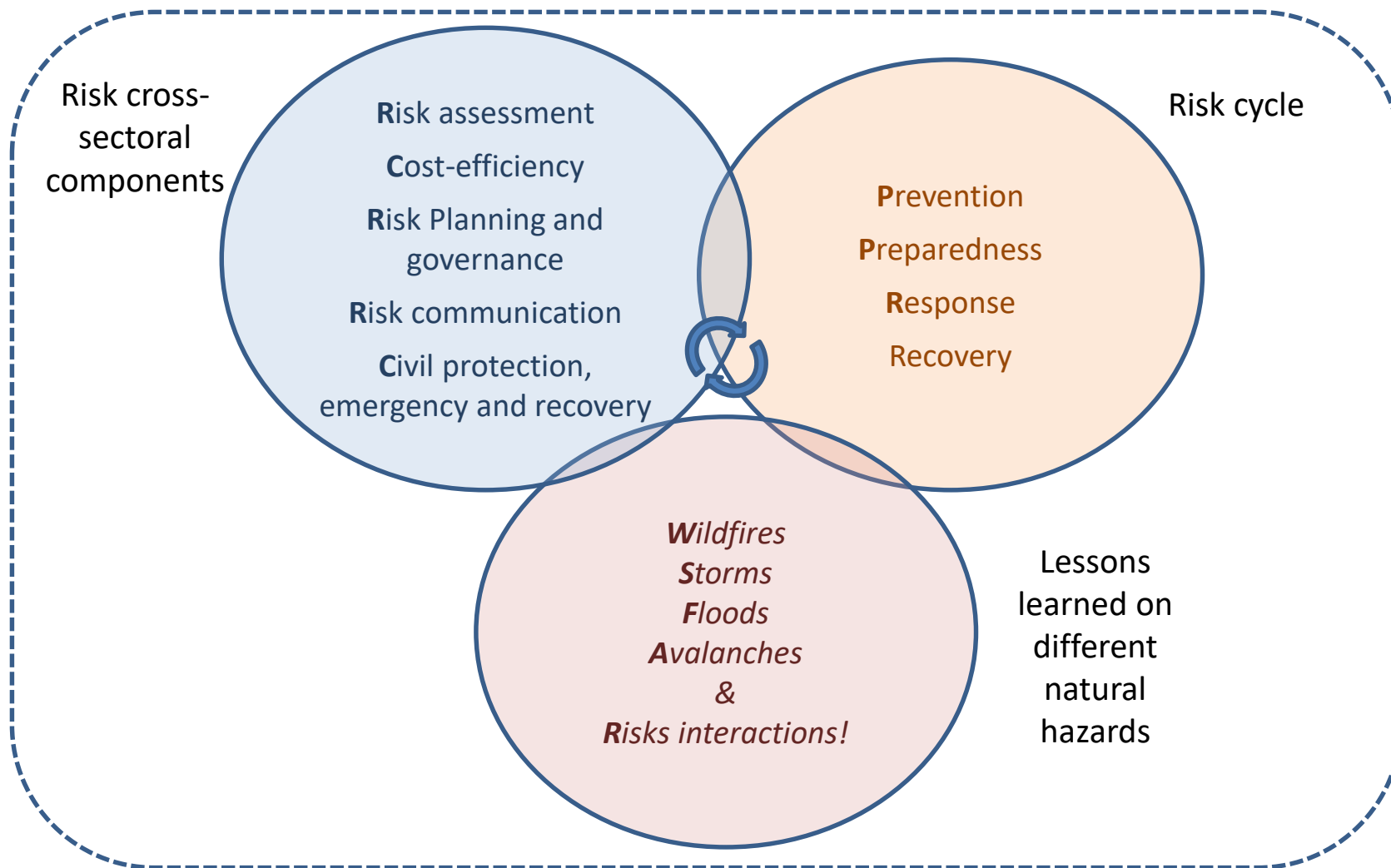
NET RISK WORK Objective: Project wants to provide a reflection on evolution and interactions under climate (global) change context across EU about **4 forests risks (wildfires, storms, avalanches, floods)**, meanwhile developing regional nodes concept under **European Forest Risk Facility**.

Results:





Conceptual approach





NET RISK WORK project results & outcomes

Single and cross-link Risks' assessment and knowledge exchange

Best practices
compilation

Risk interaction
matrix

Training seminar
& Exchange
Workshops

Networking support tools

Risk Platform

Wildfire regional
nodes

Book of
Guidelines



NET RISK WORK project results & outcomes

Single and cross-link Risks' assessment and knowledge exchange

Best practices compilation

“common template to describe the identified tools and best practices on risks assessment and management”



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	Mobile App Forest fire prevention
Description (1 sentence)	Mobile application targeting hikers, inhabitants, tourists and fire fighters to prevent and fight forest fires
Country, location	France
Date	2017
Contact e-mail	l.janeron@valabre.com
Institution	Valabre
Net Risk Work Partner	EPLFM
Document type	Website or portal
Language	<input type="checkbox"/> Catalan <input type="checkbox"/> English <input checked="" 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

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

Distribution of best practices by cross-sectorial topic



Figure 2. Best practices and operational tools distributed by cross-sectorial topic and type of risk.

NET RISK WORK project results & outcomes

Single and cross-link Risks' assessment and knowledge exchange

Risk interaction matrix

“capitalizes and shares the knowledge and possibilities in respect to single risk and risk interaction (...) thinking in risk formula concepts (vulnerability, exposure and hazard) as well as natural and human influences”

Image: Relations between risk, its elements and management objectives.

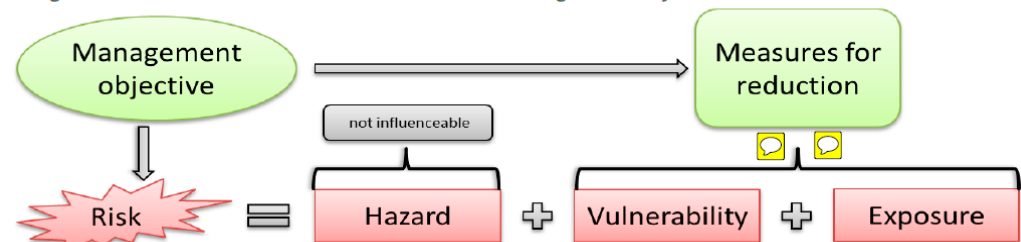


Image: Single risk assessment in detail.

Objective: INCOME		
Hazard: STORM		
Impact on Vulnerability	Natural influence	i/d
	Water logged soil (no deep roots)	↑
	...	
	...	
Yes	<input checked="" type="checkbox"/>	Management objective: "Income Hazard: "Storm" after "Avalanche"
No	<input type="checkbox"/>	
Human influence		
Thinning activities		
Impact on Exposure	DSS tool to assess the pr	
	...	
	...	
	...	
Yes	<input checked="" type="checkbox"/>	Management objective: INCOME Hazard: AVALANCHE → STORM
No	<input type="checkbox"/>	
Measures		
Early harvesting of vulnera		
Impact on Vulnerability	Storm damage insurance	
	...	
	...	
	...	
Yes	<input checked="" type="checkbox"/>	Management objective: INCOME Hazard: AVALANCHE → STORM
No	<input type="checkbox"/>	
Natural influence		
Water logged soil		
Impact on Vulnerability	Destabilisation of	
	...	
	...	
	...	
Yes	<input checked="" type="checkbox"/>	Management objective: INCOME Hazard: AVALANCHE → STORM
No	<input type="checkbox"/>	
Human influence		
Thinning activities		

Objective:		INCOME	
Hazard:		AVALANCHE → STORM	
Impact on Vulnerability	Natural influence	i/d	
	Water logged soil (no deep roots)	↑	
	Destabilisation of stands through avalanche damage	↑	
	Yes <input checked="" type="checkbox"/>	...	
	No <input type="checkbox"/>	...	
	Human influence	i/d	
	Thinning activities / salvage logging after avalanche	?	
	DSS tool to assess the probability of wind damage	↓	
	...		
	...		
Impact on Exposure	Measures	i/d	
	Early harvesting of vulnerable stands	↓	
	Storm damage insurance	↓	
Yes <input checked="" type="checkbox"/>	...		
No <input type="checkbox"/>	...		

[illegible]



NET RISK WORK project results & outcomes

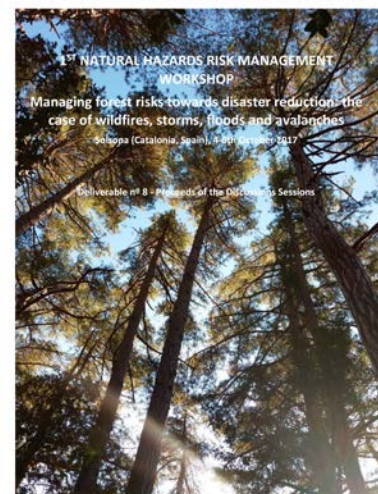
Single and cross-link Risks' assessment and knowledge exchange

Training seminar
& Exchange
Workshops

- ✓ 1 Risk and Networking Pre-assessment meeting (May 10-13th 2017 Freiburg)
- ✓ 2 Natural hazards risk management Workshop (October 5-7TH 2017 Solsona & April 10-13th 2018 Cagliari)
- ✓ Participation on several DRR events (CP Forum, SURE KO, SunFORun – IUFRO conference, PLACARD seminar, COOPEREM KO, EFIATLANTIC..)



Networking for the European Forest Risk Facility initiative – NET RISK WORK



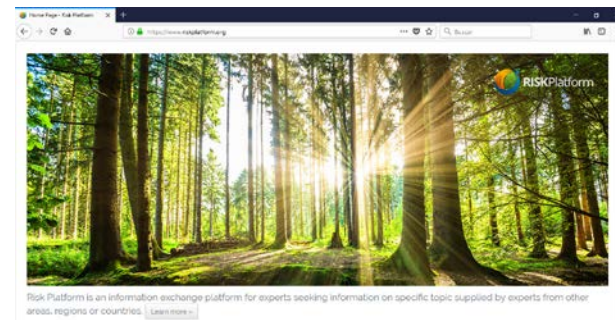


NET RISK WORK project results & outcomes

Networking support tools

Risk Platform

“is a social media platform to share experiences, events, knowledge, documents, feelings, etc., about risk. The users are academics, practitioners, and public in general.”
<http://www.riskplatform.org/>



Regional nodes

“Regional Node is the spatial or virtual location where knowledge domains, networks and repositories intersect (...) the objective is to establish a central point to be used as a link for existing networks, individual practitioners and communities that possess expert knowledge on fire risk.”
European Wildfire Risk Node (EWRN)



Book of
Guidelines

Including constructive discussions along the Project and case studies:
Operational recommendations.
Print edition EN + on line edition FR, ES, DE, IT



“Natural hazards impacting to people highlights forests’ protection function and cost-effectiveness of forestry and SFM ensuring it”



Thanks for your attention

Eduard Plana Bach

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Governance

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