Networking for the European Forest Risk Facility initiative

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Project context

Funded by European Union Humanitarian Aid and Civil Protection
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

National capacities
FIRST RESPONDERS
rescEU

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

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

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

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 Rationale: Under several climate change scenarios several regions seem 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:**

- **Knowledge and best practices identification**
- **Specific risk assessment**: Lessons learnt exchange
- **Multi hazard risk interactions assessment**
- **Wildfires, storms, avalanches, floods**
- **Cross-sectoral topics**: Governance, Cost Benefit, Communication, Vulnerability mapping...
- **Operational tools, information**...
- **Workshops and experts mobilisation, new information**...
- **Modular knowledge risk platforms and networks**
- **Book of operational guidelines**
- **Knowledge repository platforms**
- **Risk Facility Regional nodes**

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

Risk cross-sectoral components
- Risk assessment
- Cost-efficiency
- Risk Planning and governance
- Risk communication
- Civil protection, emergency and recovery

Risk cycle
- Prevention
- Preparedness
- Response
- Recovery

Wildfires
Storms
Floods
Avalanches & Risks interactions!

Lessons learned on different natural hazards
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
"common template to describe the identified tools and best practices on risks assessment and management"
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.

<table>
<thead>
<tr>
<th>Objective: INCOME</th>
<th>Hazard: STORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact on Vulnerability</td>
<td>Natural influence</td>
</tr>
<tr>
<td>Yes</td>
<td>Water logged soil (no deep roots)</td>
</tr>
<tr>
<td>No</td>
<td>...</td>
</tr>
<tr>
<td>Human influence</td>
<td>Thinning activities</td>
</tr>
<tr>
<td>DSS tool to assess the probability of wind damage</td>
<td></td>
</tr>
<tr>
<td>Impact on Exposure</td>
<td>Measures</td>
</tr>
<tr>
<td>Yes</td>
<td>Early harvesting of vulnerable stands</td>
</tr>
<tr>
<td>No</td>
<td>Storm damage insurance</td>
</tr>
</tbody>
</table>

Management objective: “Income
Hazard: “Storm” after “Avalanche”

<table>
<thead>
<tr>
<th>Objective: INCOME</th>
<th>Hazard: AVALANCHE → STORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact on Vulnerability</td>
<td>Natural influence</td>
</tr>
<tr>
<td>Yes</td>
<td>Water logged soil (no deep roots)</td>
</tr>
<tr>
<td>No</td>
<td>Destabilisation of stands through avalanche damage</td>
</tr>
<tr>
<td>Human influence</td>
<td>Thinning activities / salvage logging after avalanche</td>
</tr>
<tr>
<td>DSS tool to assess the probability of wind damage</td>
<td></td>
</tr>
<tr>
<td>Impact on Exposure</td>
<td>Measures</td>
</tr>
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<td>Yes</td>
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Image: Single risk assessment in detail.

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

Single and cross-link Risks’ assessment and knowledge exchange
NET RISK WORK project results & outcomes

Single and cross-link Risks’ assessment and knowledge exchange

- 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.. )
“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 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)

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

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