



Plurifor project: a transnational plan for the management of forest fire risk



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Plurifor: a multi-risk approach



Source: Ignazio Graziosi



SUDOE : 11 partners, 3 countries





Wildfires: South Europe Context





(JRC, 2018)



Objective

The aim of this group is to assess the Portuguese national and Spanish regional forest fire management plans and establish a set of recommendations.







Methodology

GT1: Analysis of organisations involved in forest risk management : interviews

GT2: Tools implementation and Writing/Improving risk management plans : workshops

GT3: Risk management plans evaluation : workshops

GT4 : Validation and transfer



Results

WEAKNESSES

 Prevention and rehabilitation phases are the weakest ones, the latter being completely absent from the plans, except in Galicia and in the National Plan for Forest Fire Defense in Portugal;

 In Portugal, civil protection priority is to save lives and not fighting forest fires. This is probably the most important problem related to forest fire crisis management: not having specific forest fires fighting crews.



Results

STRENGTHS

 The general opinion of the interviewed organizations (Spain and Portugal) is that they have access to technical tools and to advanced technology in prevention, prevision and crisis management phases;

• Prevision is judged adequate, and crisis management, mainly firefighting, is perceived efficient and well equipped.



Results

- Not all the regions have wildfire risk plans however all of them have institutions responsible for the prevention, warning and emergency/extinction of wildfires;
- Some of the regions don't have fuel map (e.g. Asturias);
- or don't have enough work in the fire risk education and awareness (e.g. Portugal);
- The use of fire behavior simulators as a decision support tool for prevention and extinction is not a common tool used on the studied regions.



Development of new tools

Fire risk plans – a common language for Iberian Peninsula

Small Book with best practices concerning the risk components that should be taken in consideration when preparing a wildfire risk plan.

The book contents are:

- » Typology of past fires using historical records;
- » Meteorology;
- » Fuel Maps;
- » Simulation tools;
- » Environmental education and fire risk awareness;
- » Practical example.





Basque country

Two new tools were developed to facilitate the use of fire simulators: Landscape Maps by LiDAR flight 2012 (LCP file) and Maps of areas of high fire risk in the Basque Country (by WindNinja software)



Development of new tools



As a final result of the collaboration, it is expected to be able to use fire simulators in the drafting of forest management plans and in the fight against forest fires.



LiDAR data to create fuel maps



Development of new tools





Development of new tools

Fire simulators to help optimize fuel management and to help on firefighting (eg. FARSITE, FLAMMAP)







0 0.5 1 2 Kilómetros

flame_length.asc (m)





Development of new tools

- social dimension of forest fires to decrease risk





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Main recomendations

- Up-to-date input data
- Continuous analysis of fire behavior
- Education and awareness



 Inter-administrative coordination between regional councils and cross-border cooperation



Thank you for your attention

Any questions...

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