



EFI Project Centre

***“Fire ecology and post-
fire management”***
(2005-2009)





Objectives:

1. to gather the *state-of-the-art of existing scientific knowledge* concerning the fire characteristics of the different forest types and respective species;
2. to develop a set of *criteria to classify forest types in terms of the associated fire hazard* and resilience;
3. to define the *potential and limitation of the various post-fire management options*;
4. to help *developing the transfer mechanisms needed between research and its application by end-users* in this specific issue.



Expected benefits:

- 1. to provide a scientific basis for post-fire management options that allow adequate decisions by land managers;**
- 2. to provide an effective use of the acquired knowledge;**
- 3. to define priorities for research on post-fire management;**
- 4. to harmonise research efforts aiming the development of common criteria for post-fire management decisions.**



Phoenix members:





Phoenix members:

1. Centro de Ecologia Aplicada, Instituto Superior de Agronomia, Portugal
2. University of Trás-os-Montes e Alto Douro (UTAD), Portugal
3. University of Aveiro (UA), Portugal
4. Centro de Estudios Ambientales del Mediterraneo (CEAM), Spain
5. Centre de Recerca Ecològica i Aplicacions Forestals, Spain
6. Dep. Ciencias Ambientales, Universidade de Castilla - La Mancha, Spain
7. Escola Tecnica Ingenieros Agrónomos, Universidade de Castila - La Mancha, Spain
8. Centre Tecnològic Forestal de Catalunya, Spain
9. IPROCOR, Spain
10. Universidad de Leon
11. University of Santiago de Compostela (USC), Spain



Phoenix members:

12. Institut National de la Recherche Agronomique (INRA), France
13. Centre National du Machinisme Agricole, du Génie Rural des Eaux et des Forêts (CEMAGREF), France
14. International Association for Mediterranean Forests, France
15. University of Napoli Federico II (UNINA), Italy
16. University of Tuscia (UNITU), Italy
17. University of Basilicata, Italy
18. Italian Academy of Forest Sciences, Italy
19. Institute of Mediterranean Forest Ecosystems and Forest Products Technology, Greece
20. University of Athens (NKUA), Greece
21. University of Tessaioniki (UT), Greece



Phoenix coordination:





Phoenix coordination:





Main outputs:

1. Phoenix web site;
2. Phoenix leaflet;
3. Newsletter (annual);
4. Conferences on “Fire ecology and post-fire management” (2007 and 2009);
5. National workshops (“Needs and knowledge gaps in post-fire management”);
6. Advanced course on post-fire management (annual; Lisbon);
7. Book on technical guidelines for post-fire management (both printed and electronic).



Work Programme (1/4):

Task 1 - Scientific bases for post-fire management

Task 1.1 - What forest types are less likely to burn?

Task 1.2 - What are the characteristics of the dominant species that can explain the different preference to fire of the various forest types?

Task 1.3 - What forest types are more resilient to fire?

Task 1.4 - What are the species characteristics that control their differential resistance to fire?

Task 1.5 - What are the general findings of the fire history of some major forest types and species in southern Europe?



Work Programme (2/4):

Task 2 - Technical recommendations

Task 2.1 - What are the adequate forest types /species to use in forest conversion after fire?

Task 2.2 - What is the potential and limitations of the various post-fire management options?



Work Programme (3/4):

Task 3 - Knowledge transfer

This task will try to:

- *Identify the reasons for the lack of effective transfer mechanisms between research achievements and their application by end users.*
- *Produce a report including suggestions on how to develop effective ways for allowing the application of the results of research on post-fire management by end-users.*



Work Programme (4/4):

Task 4 - Technical guidelines on post-fire management

Production of book on “Technical guidelines on post-fire management” (both printed and available on the web), taking into account the situation in different countries.



Main current projects:

- EU FIRE PARADOX (CEABN, Portugal)
- FFP project “Post-fire restoration” (CEABN, Portugal)
- SUBERNOVA Cork oak forest renovation in Extremadura and Alentejo (IPROCOR, Spain)
- Erosfire - A model-based, decision-support tool for soil erosion hazard assessment following forest wildfires (UA, Portugal)
- Reproduction of *Pinus halepensis* after large fires: influence of several silviculture treatments in the reproductive dynamics and in the forest biodiversity (UCLM, Spain)



Phoenix Management Committee:

- Francisco Moreira (ISA, Portugal)
- Paulo Fernandes (UTAD, Portugal)
- Ramon Vallejo (CEAM, Spain)
- Eric Rigolot (INRA, France)
- Stefano Mazzoleni (UNINA, Italy)
- Margarita Arianoutsou (KNUA, Greece)



Further information:

Francisco Moreira

Centro de Ecologia Aplicada “Prof. Baeta Neves”
Instituto Superior de Agronomia
Tapada da Ajuda
1349-017 Lisboa
Phone: + 351 21 3616080
E-mail: fmoreira@isa.utl.pt
Website: www.phoenix-efi.org