



MEDWILDFIRELAB

**“GLOBAL CHANGE IMPACTS ON WILDLAND FIRE BEHAVIOUR
AND USES IN MEDITERRANEAN FOREST ECOSYSTEMS,
TOWARDS A « WALL LESS » MEDITERRANEAN WILDLAND
FIRE LABORATORY”**

FORESTERRA ERA-NET



Forest fires in the Mediterranean basin



Millennia of **human activities** on Mediterranean **landscapes** have modified natural forest fire dynamics and the capacity of vegetation to respond to disturbances .

Furthermore, **climate change**, increasing climate or weather extremes (e.g. droughts or heat waves), is adding new threats and higher risks to cope with.

Global change due to climatic changes (temperature and precipitation)

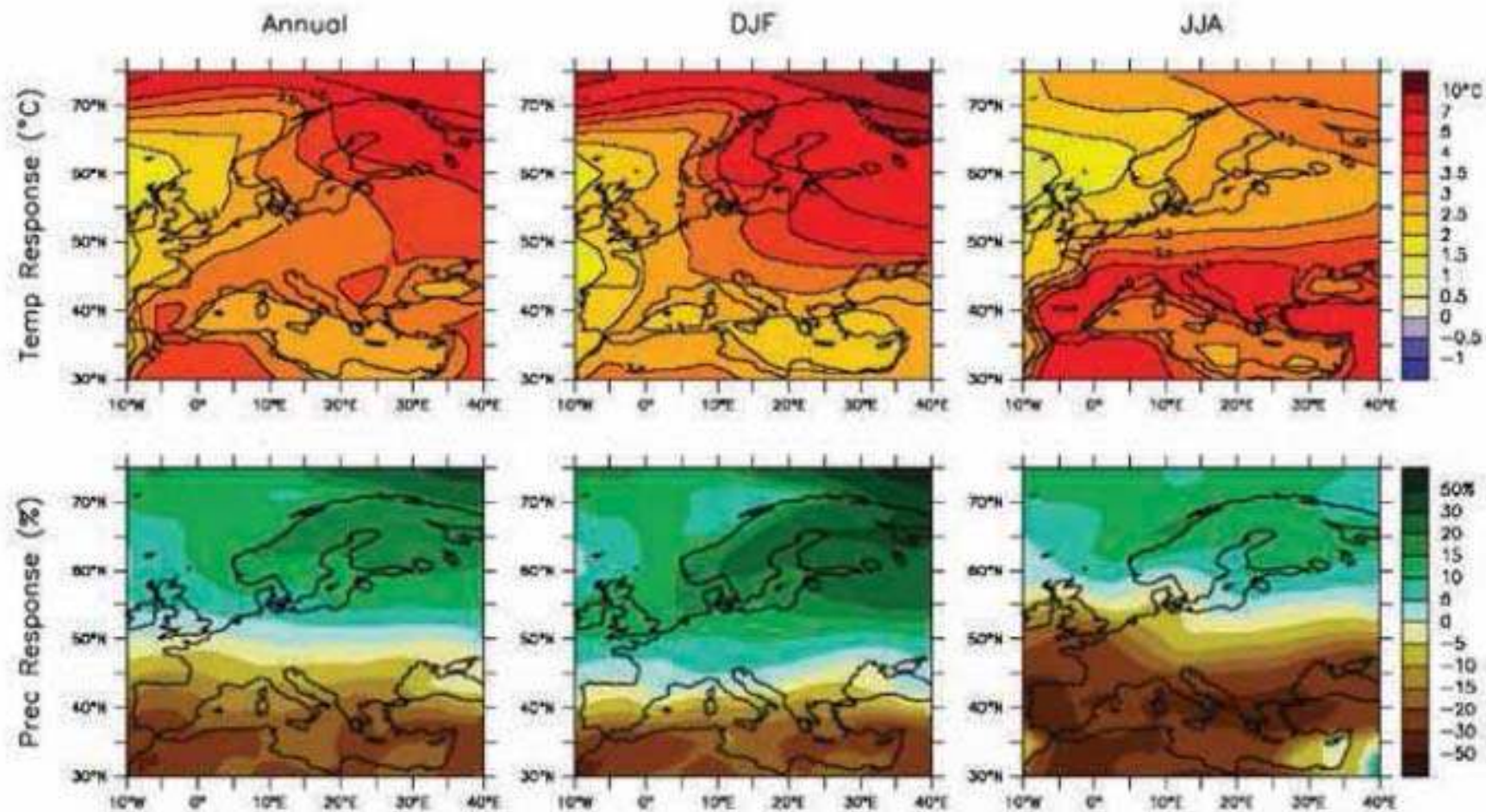


Figure 1.25. Comparison of current temperatures and rainfall, with projections for 2100

Note : DJF= December, January, February; JJA = June, July, August.

Source: IPCC, 2007b.

Scenarios for the Mediterranean in 2100:

	Temperature variation (°C)		Precipitation variations (°C)	
	Min	Max	Min	Max
Season				
Winter	+1.7	+4.6	-16	+6
Spring	+2	+4.5	-24	-2
Summer	+2.7	+6.5	-53	-3
Autumn	+2.3	+5.2	-29	-2
Annual	+2.2	+5.1	-27	-4

Source: IPCC, 2007b.



MedWildFireLab

1st October 2014

To

31st March 2017

Partner	Responsible
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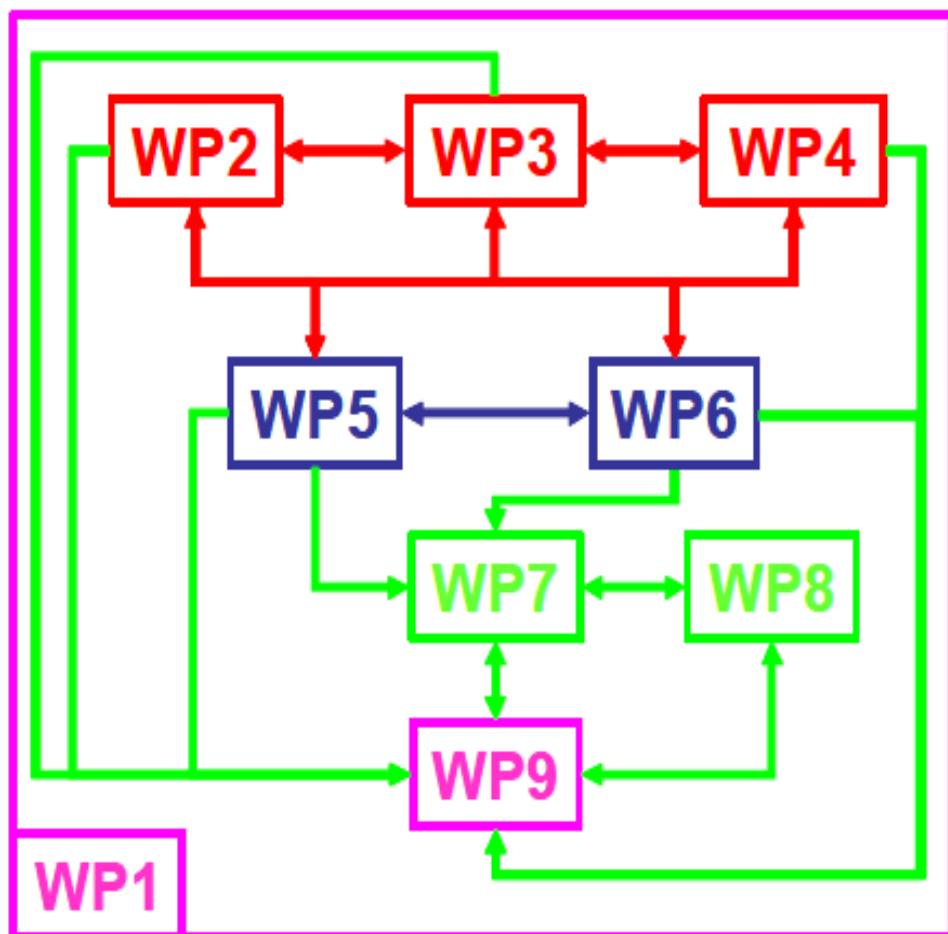
Three major aims:

- To enhance the cooperation and exchange of knowledge between scientists and students, between engineers, technicians and workers among Mediterranean fire research and technological development teams
- To ensure the transfer from basic to applied research in this domain for the Mediterranean environment in the context of global change: change of land use and climate change.
- To develop a Euro-Mediterranean Research Area in the wildland fire domain coherent with the European Union's objectives, the European Parliament's and Union for the Mediterranean's recommendations.

Five main goals:

- To improve the efficiency of research through exchange of knowledge
- To select common concepts and vocabulary
- To foster data sharing and mutual opening of existing infrastructures (experimental sites, research facilities, databases...)
- To elaborate adapted methods for research and technological development
- To integrate the specific spatial scales and diverse roles of the Mediterranean wildland areas, mainly those concerned by wildland fires
- To achieve these aims and goals, the partners constitute a multidisciplinary consortium at Mediterranean scale.

General structure



WP1: Coordination

WP2. Physical and Chemical Sciences

WP3. Biological Sciences

WP4. Social and Human Sciences

WP5. Technological Activities (Wildland
Urban Interface & Prescribed Burning)

WP6. Wildland Fire Fighting Training

WP7. Promotion actions

WP8. Towards a wall-less Mediterranean
Wildland Fire Laboratory

WP9. Communication and Dissemination

WP1: Coordination, Management and Governance of the project

Coordination team: ISA-CEABN (Coordinator), UCM-GPSF (Deputy coordinator (administrative secretariat), and a secretariat, in order to:

(i) ensure the implementation of the project activities in due time

(ii) promote efficient relationships among the consortium



WP2. Contribution of Physical and Chemical Sciences

Task 2.1. Global change impacts on wildland fire ignition process

Task 2.2. Global change impacts on wildland fire behaviour

Task 2.3. Evaluation of wildland fire behaviour models or systems of models



WP3. Contribution of Biological Sciences

Task 3.1: State of the art

Task 3.2. Characteristics of
dead wildland fuel

Task 3.3. Characteristics of
living wildland vegetation –
potential fuel

Task 3.4. Restoration of burned
areas



WP4. Contribution of Social and Human Sciences

Task 4.1. State of the art

Task 4.2. Socio-economic causes and factors of wildland fires

Task 4.3. Influence of the recent territorial dynamics in fire regimes



WP5. Technological Activities

Task 5.1. Up-dated state of the art

Task 5.2. Promote methodologies for the management of the Wildland-Urban Interfaces

Task 5.3. Prescribed burning, a tool for forest management



WP6. Wildland Fire Fighting Training

Task 6.1. State of the art:

Task 6.2. Wildland fire-fighters training for the future in Mediterranean basin

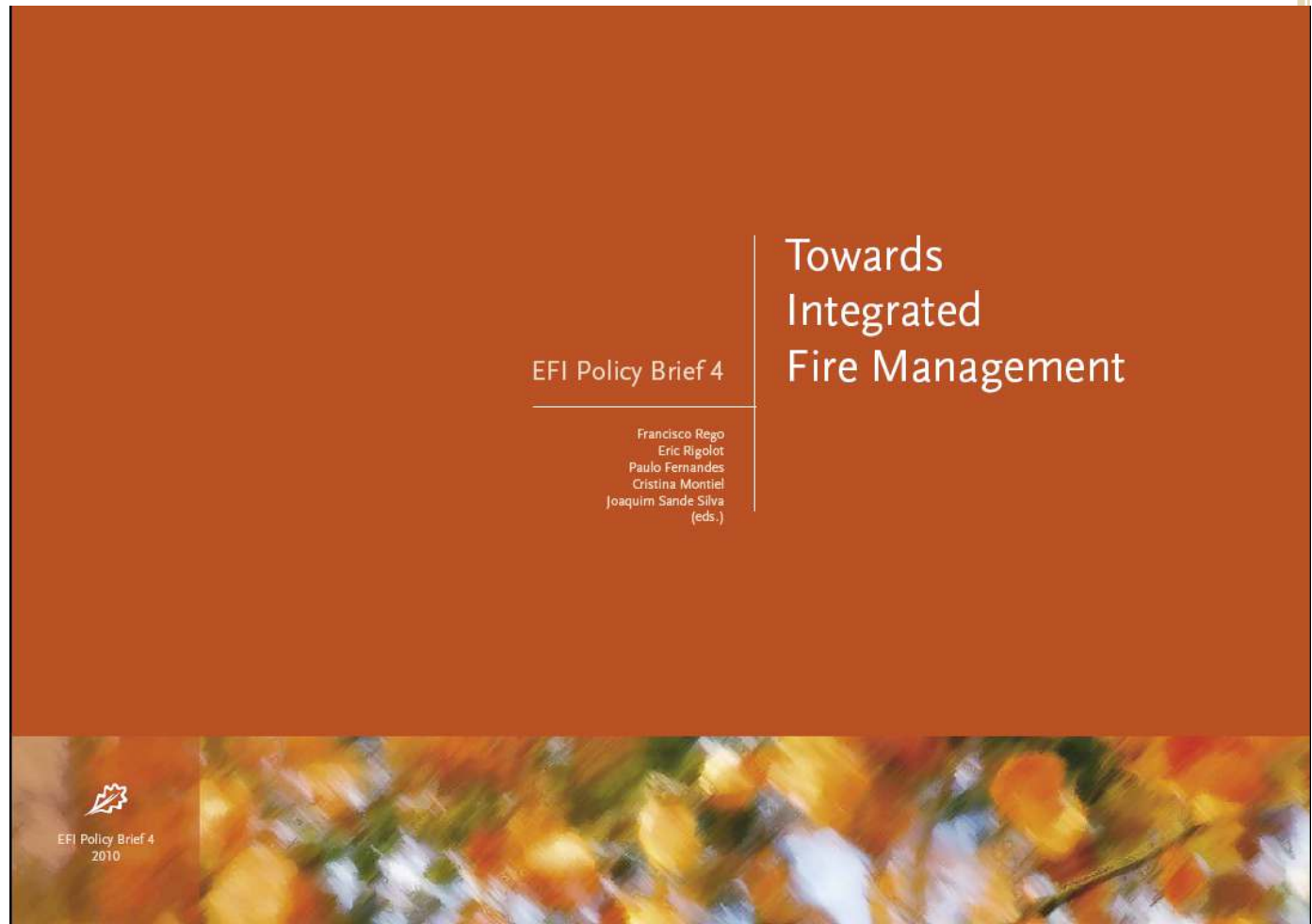
Task 6.3. Initiation and scientific support of training for the future



WP7. Promotion actions towards National, European and Mediterranean Institutions

Task 7.1. Elaboration and dissemination of Policy briefs

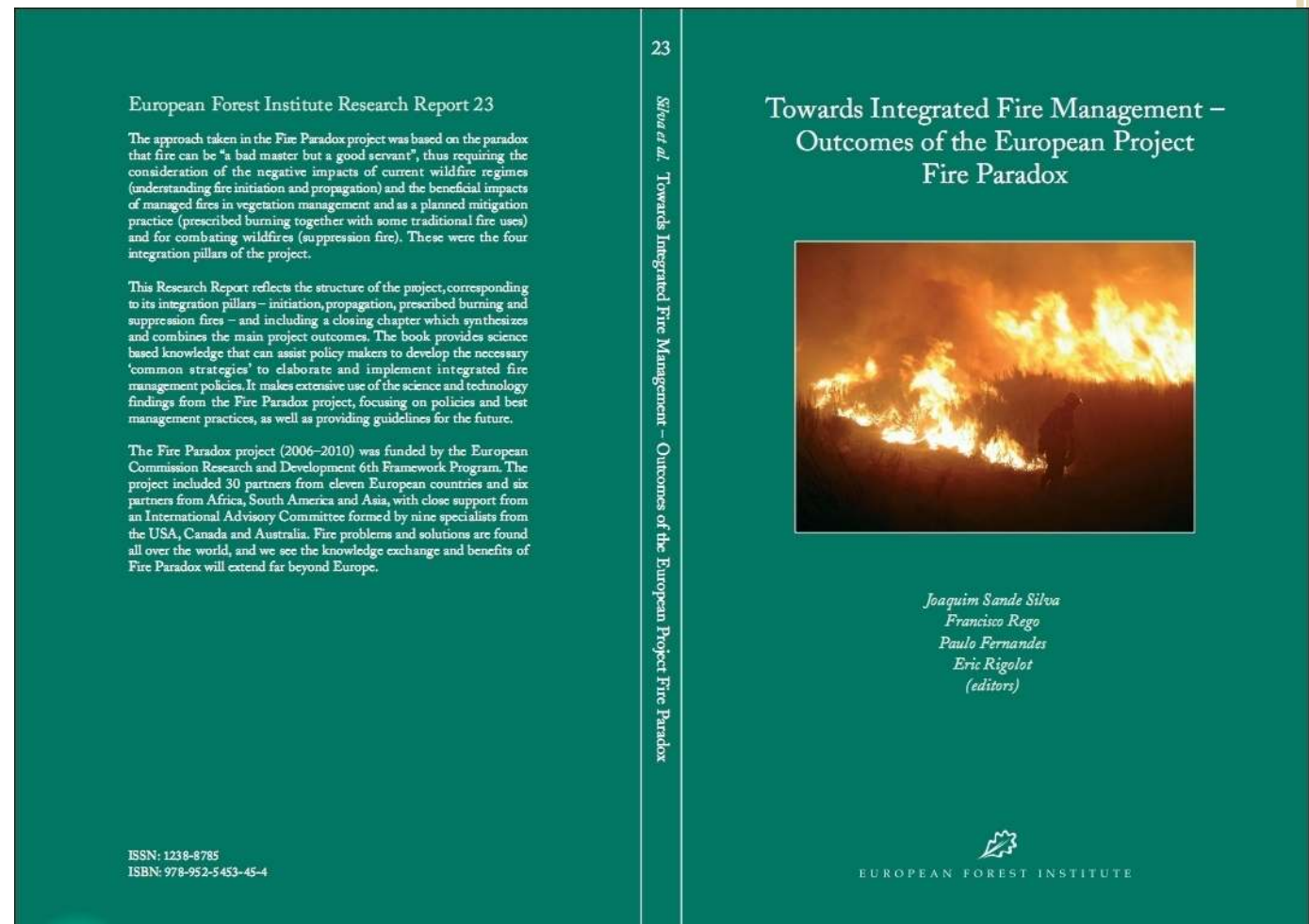
Task 7.2. Dissemination of the Policy briefs by the coordination staff and the Steering Committee



WP8.Towards a wall-less Mediterranean Wildland Fire Laboratory

Task 8.1. Conditions and agreements contents for creating a long term cooperation structure

Task 8.2. Launching of the eponym TJRU: the wall-less Mediterranean Wildland Fire Laboratory



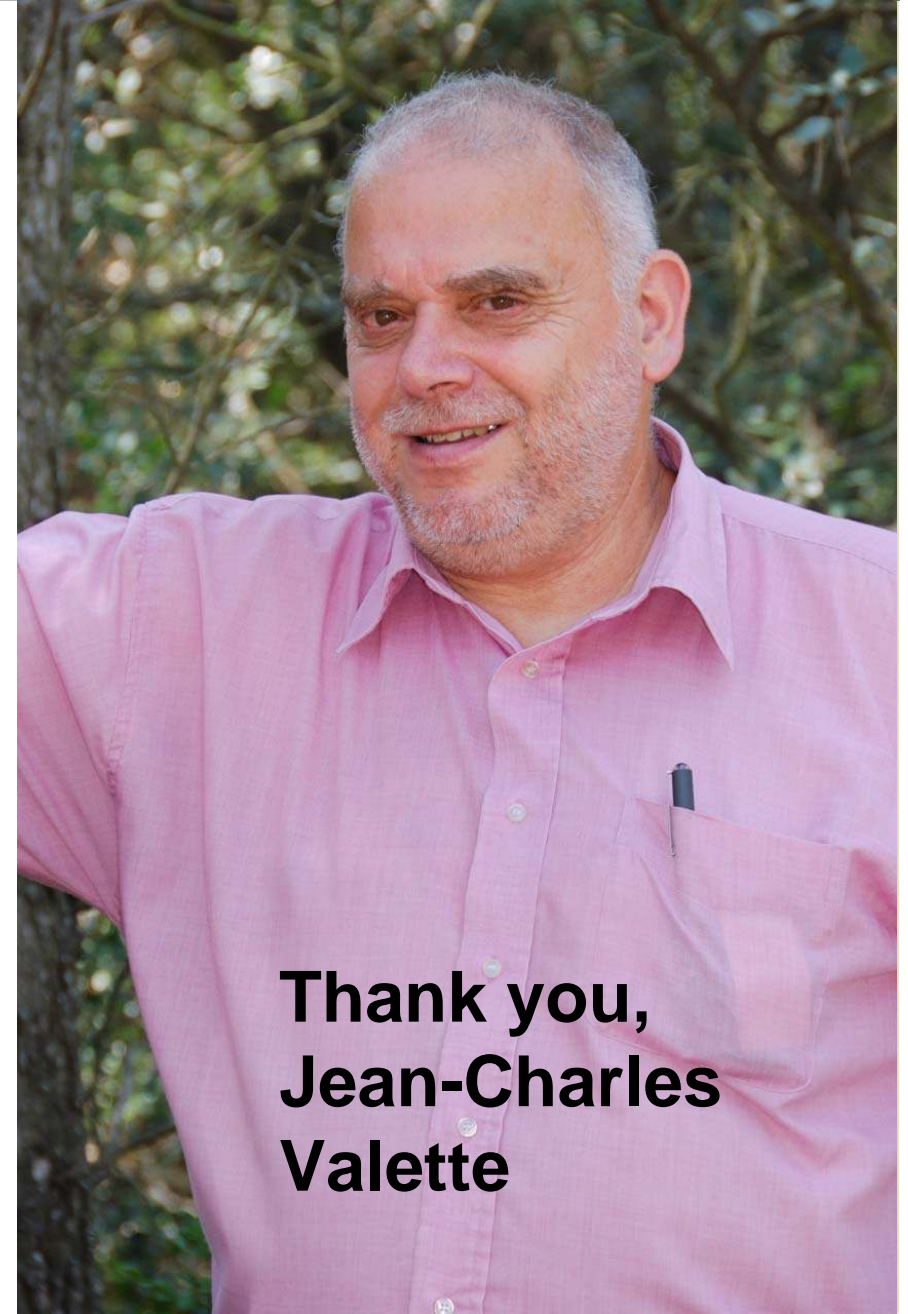
WP9 Communication and MedWildFireLab Web site www.medwildfirelab.org

Task 9.1. MedWildFireLab e-Bulletin

Task 9.2. MedWildFireLab e-Library will be based on a previous e-Library developed under EUFIRELAB project and Fire Intuition (FIRE PARADOX)

Task 9.3 MedWildFireLab e-Observatory will contain 1500 references up-dated on EUFIRELAB web site (work by Jean-Charles Valette)

Task 9.4. Others functions



**Thank you,
Jean-Charles
Valette**

The long-term vision:

A long-term cooperation structure, as the proposed Transnational Joint Research Unit (TJRU) in the Wildland Fire Domain, is absolutely required to make full use of all the extraordinary progress in knowledge and the very substantial technical achievements made with public funds (national and EU) in the past decades.

This is a major goal of the consortium and the idea behind the wall-less Mediterranean Wildland Fire Laboratory.