Expanding collaborations through the Pau Costa Foundation:

From theory to practice

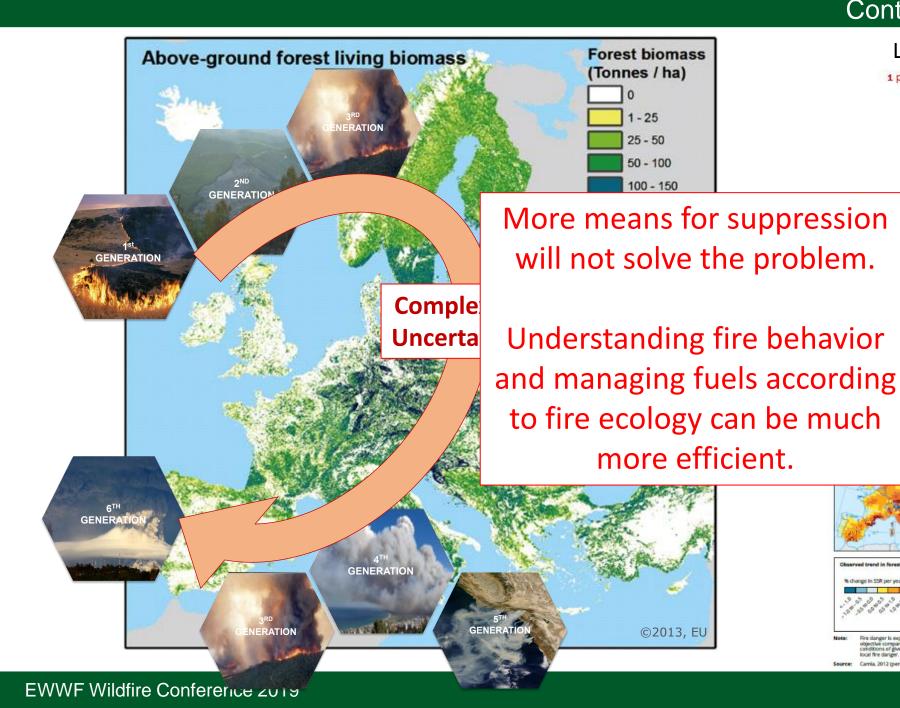
Núria Prat-Guitart, PhD nprat@paucostafoundation.org





EWWF Wildfire Conference 2019

Context - The challenges



Large population + WUI

mate change impacts

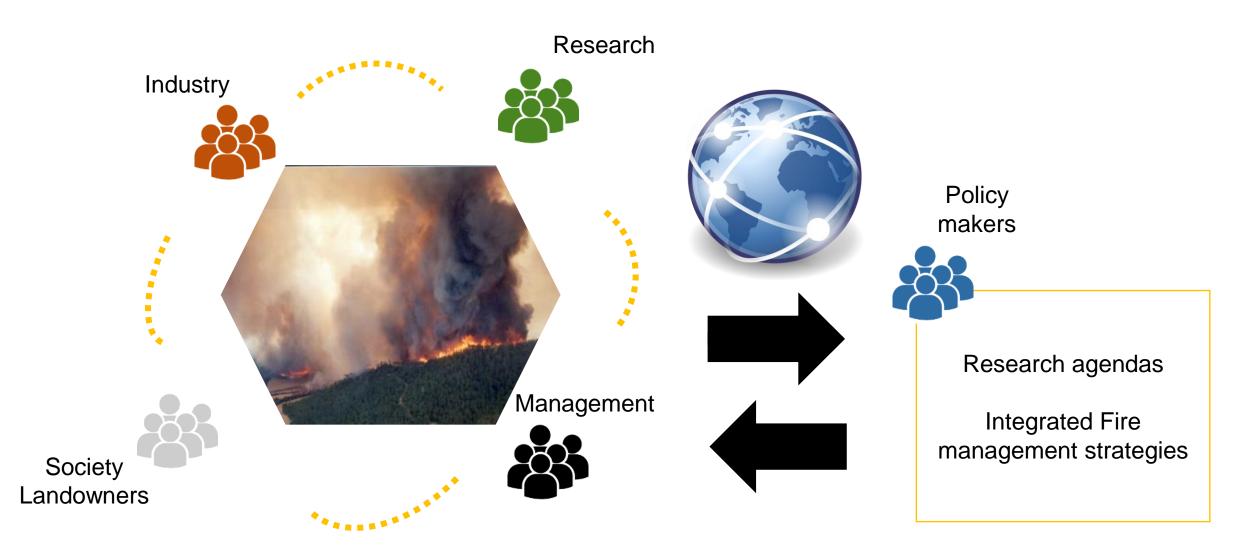


Observed trend in forest fire danger (1981-2010)		Projected change in forest fire danger (2071-2100 vs. 1961-1990	
% change in SSR per year	Statistical significance of fire danger trend	% change in SSR	0 500 1 000 1 500 km
1. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	ANT ANT AND AND AND	a see are perer to	© European Union 2016, source: joint Research Centr

te: The danger is expressed using the SSR. Daty severity values can be averaged over the firs season using the SSR holes, which about for objective comparison of the danger from year to year and from region to region. The carries call of the map does not allow specific conditions of given sites to be accounted for, as, for example, in the Aprine region, where the complex topography may strongly affect local the danger.

Source: Camia, 2012 (personal communication), based on Camia et al., 2008.

Context – The solution: build solid collaborations





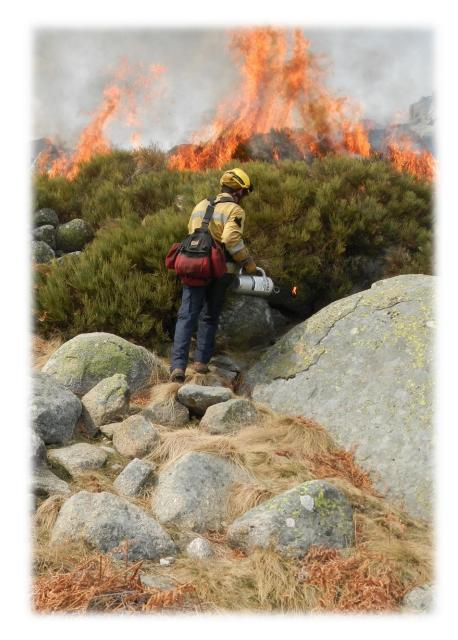
Pau Costa Foundation: Wildfires, Fire Ecology and Crisis Management

Contact point to facilitate the exchange of wildfire knowledge at different scales



KNOWLEDGE FROM THE EXPERIENCE







Approaches for collaboration at different scales:

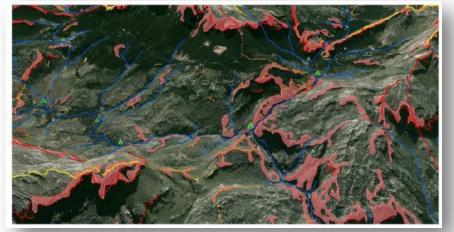
- Engagement of different actors to create resilient landscapes and societies
- Support initiatives to exchange and create fire (management) knowledge & tools around the world



Sustainable models involving local communities

Resilient landscapes and societies

- Strategic management \rightarrow involve fire experts, researchers & citizens.
- Sustainable rural economies \rightarrow contribution to mosaic & resilience.
- Empower landscape managers → training shepherds on fire ecology & landscape resilience.
- Participatory processes \rightarrow democratising wildfire strategies.





Resilient landscapes and societies II



Engage through communication

Community resilience \rightarrow *Firewise*



Toolkit with communication resources:

 \rightarrow Education programs. MEFITU: "The Mediterranean Forest, the Fire and You".

 \rightarrow Cartoon series.

 \rightarrow Art.

 \rightarrow Guidelines for educators, journalists and policy makers.









http://peopleartfactory.com/g/fuego-vs-fuego



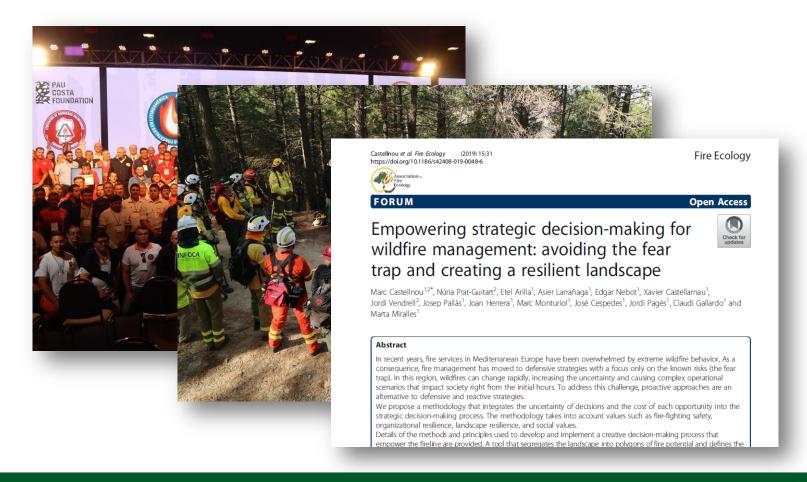
Approaches for collaboration at different scales:

- Engagement of different actors to create resilient landscapes and societies
- Support initiatives to <u>exchange and create fire</u> (management) knowledge & tools around the world



Exchanges between organisations to exchange knowledge and train

- Learn from lessons learned → exchanges of knowledge at regional and international level.
- Give visibility to the fire community \rightarrow active source of knowledge.





 Networking events → identify gaps & challenges for management & Open new opportunities for collaboration.





COSTA

Wildfire Magazine, Aug 2019

 Understanding wildfires and creating solutions → participation in R+D+i projects to enhance excellence and innovation.



SURVEY PARTICIPANTS

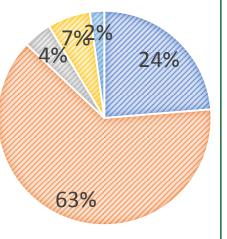
🛛 Academia

Management

Industry

Intermix

🛛 Other



Knowledge from managers is key to develop R+D+i that is applicable for real life problems.

Engagement of fire managers in R+D+i projects is currently not enough (<45% projects).

It is really important to include management experiences and lessons learned in R+D+i (91% of managers).

Final users should be part of the project since the R+D+i design. Validation is not enough to obtain applicable results.

Transdisciplinary teams.

Fire managers as data providers to provide a global database of knowledge and data.

Best ways to communicate the R+D+i outputs is in practitioner online portals and practitioner journals.

Regional events, where theory goes into practice, are the best places for engaging fire managers.

PAU COSTA FOUNDATION

Thank you! nprat@paucostafoundation.org





FIRE ECOLOGY ACROSS BOUNDARIES: CONNECTING SCIENCE AND MANAGEMENT

October 20-23, 2020 — Florence, Italy —

The Association for Fire Ecology and Pau Costa Foundation are partnering with Regione Toscana and University of Florence to host a conference in Europe for wildland fire scientists and managers. Save the date and join us in Florence for workshops, plenary and concurrent presentations, and field trips.

More information will be posted soon at fireacrossboundaries.org





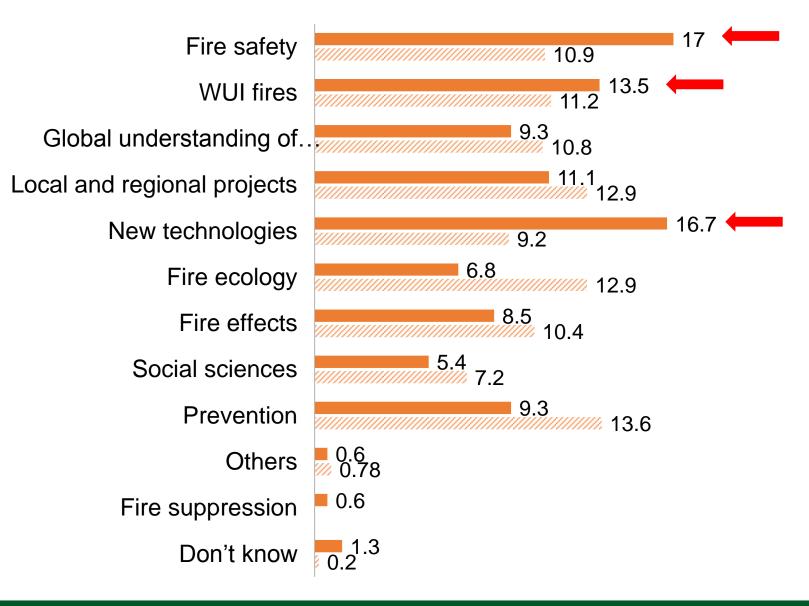
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How is climate change affecting fires in Atlantic & Northern Europe?
How can fire ecology be used for emergency management?
What is the impact of small fires for future fire regimes?
How good is prescribed burning to reproduce natural fires?
How are plant adaptations to fire responding to climate change?
How is the fire ecology and behaviour changing inside a WUI?

Perception – What topics are better covered by R+D+i?

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Current R+D+i (%) Weeded R+D+i (%)



Perception – What topics are better covered by R+D+i?

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21.4

20.7

17.1

Current R+D+i (%) [∞]Needed R+D+i (%)

