Expanding collaborations through the Pau Costa Foundation:

From theory to practice

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More means for suppression will not solve the problem. Understanding fire behavior and managing fuels according to fire ecology can be much more efficient.
Context – The solution: build solid collaborations

- Industry
- Research
- Management
- Policy makers
- Research agendas
- Integrated Fire management strategies

Society
Landowners

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

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

Community resilience → Firewise

Toolkit with communication resources:

→ Education programs. MEFITU: “The Mediterranean Forest, the Fire and You”.

→ Cartoon series.

→ Art.

→ 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 exchange and create fire (management) knowledge & tools around the world**
Learn from lessons learned → exchanges of knowledge at regional and international level.

Give visibility to the fire community → active source of knowledge.
Support the exchange and creation of knowledge II

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

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

Wildfire Magazine, Aug 2019

PyroLife
+15 PhD students
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.
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?
Current R+D+i (%)  Needed R+D+i (%)

Fire safety: 10.9  17
WUI fires: 11.2  13.5
Global understanding of...: 9.3  10.8
Local and regional projects: 11.1  12.9
New technologies: 9.2  16.7
Fire ecology: 6.8  12.9
Fire effects: 8.5  10.4
Social sciences: 5.4  7.2
Prevention: 9.3  13.6
Others: 0.6  0.78
Fire suppression: 0.6
Don’t know: 0.2

Perception – What topics are better covered by R+D+i?
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<table>
<thead>
<tr>
<th>Topic</th>
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**EU Funding (%):**

- Fire safety: 2.9%
- WUI fires: 8.9%
- Global understanding of...: 21.4%
- Local and regional projects: 17.1%
- New technologies: 17.1%
- Fire ecology: 3.2%
- Fire effects: 6.8%
- Social sciences: 8.6%
- Prevention: 20.7%
- Others: 7.5%
- Fire suppression: 2.9%