

Towards integrated approaches: Landscaping wildfire risk mitigation in a circular way

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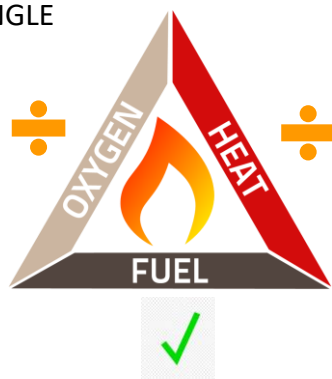


Wildfires as a Socionatural Hazard

associated with a combination of natural and anthropogenic factors, including environmental degradation and climate change

<https://www.undrr.org/terminology/hazard>

FIRE TRIANGLE



FIRE SPREAD TRIANGLE

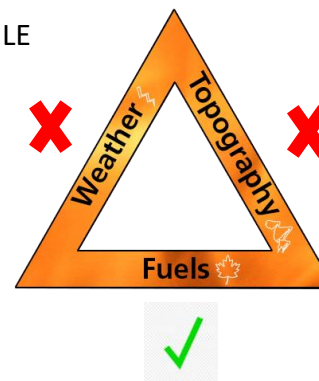


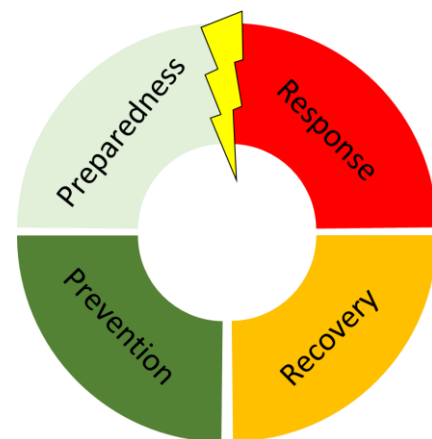
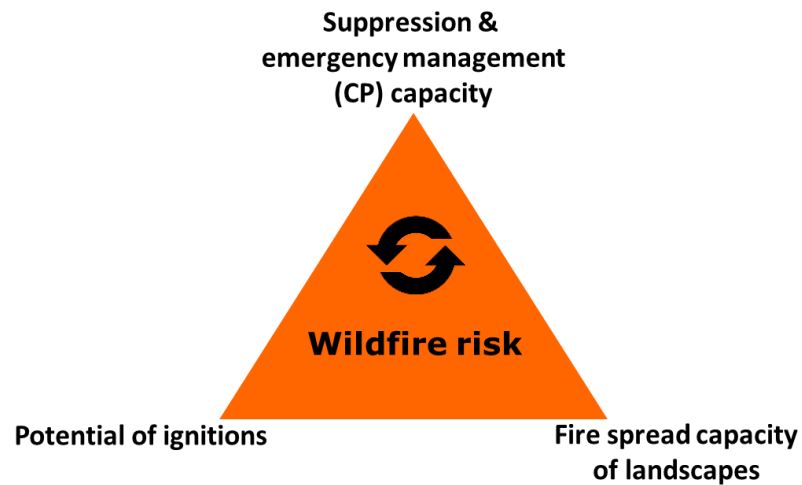
Photo: Catalan Fire and Rescue Service

Not changeable 

Partially changeable 

Changeable 

ISO 31000 – Risk management



Active prevention



Passive prevention



Preparedness / Response

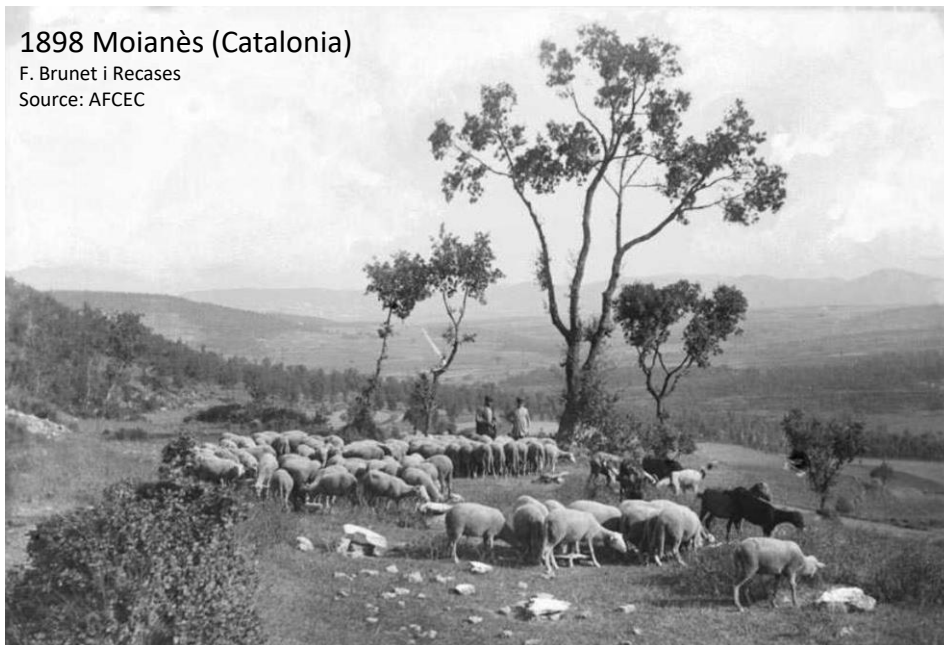


Photo: C. Miranda, Catalan Forest Service

1898 Moianès (Catalonia)

F. Brunet i Recases

Source: AFCEC



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Usar el fuego contra el fuego: las quemas prescritas

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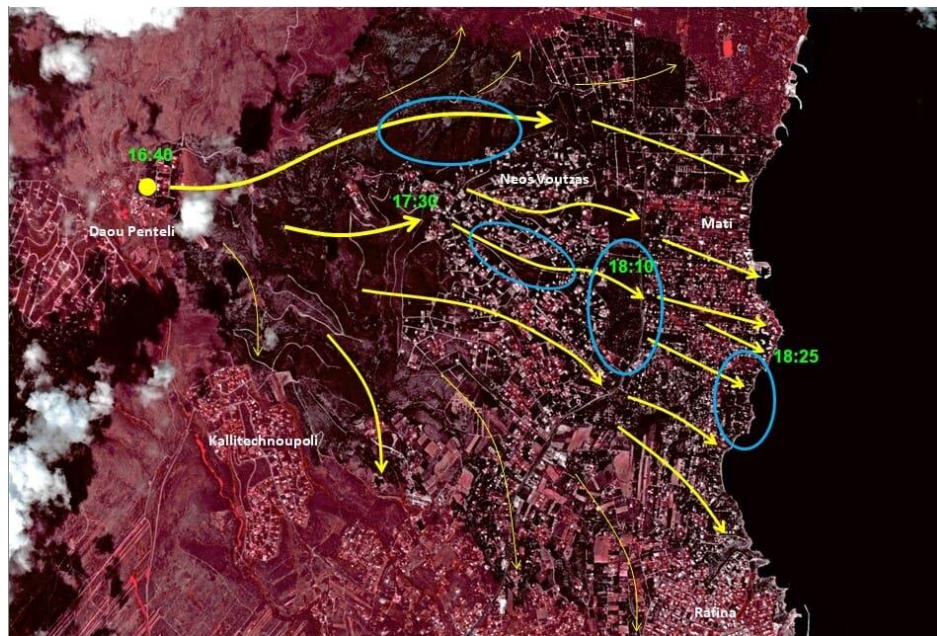
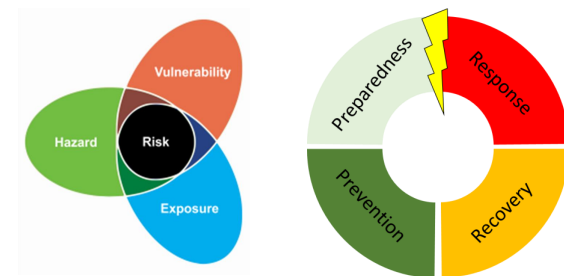
Eduard Plana Bach, Jefe del Área de Política Forestal y Gobernanza Ambiental del Centro Tecnológico Forestal de Cataluña. Miembro fundador de la Fundación de Ecología del Fuego y Gestión de Incendios Pau Costa Alcubierre.

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Landscaping forest/urban resilience & DRR



From fueled woodlands to fire-resistant landscapes able to protect citizens, infrastructures and values

(Goal) Prevent new and reduce existing disaster risk through the implementation of **integrated and inclusive** (...) measures that prevent and reduce hazard exposure and vulnerability to disaster, increase preparedness for response and recovery, and thus **strengthen resilience**.

Sendai Framework for
Disaster Risk
Reduction 2015 - 2030

11. Promoting **nature-based solutions** for adaptation

14. Reducing **climate-related risk**

EU Strategy on
Adaptation to
Climate Change

EU Biodiversity
strategy for 2030



The European
Green Deal

A new EU Forest
Strategy

- protecting forests in a changing climate whilst **promoting sustainable forestry management to mitigate against climate change**;
- Protecting forests and enhancing ecosystem services;



Common
Agricultural Policy

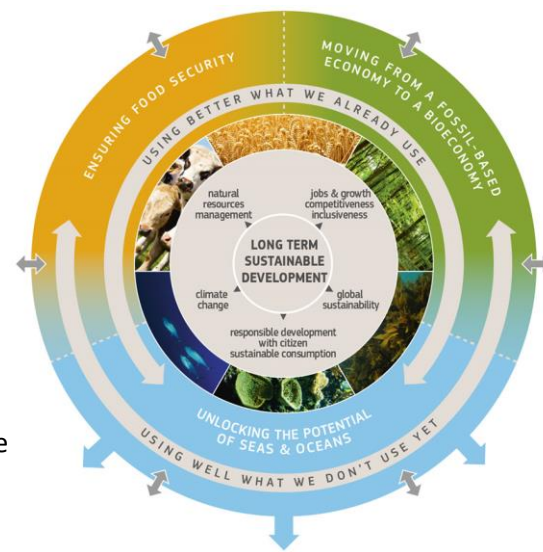
Farm to fork
Strategy

EU Bioeconomy
strategy

- 1.Strengthen and scale up the **bio-based sectors**, unlock investments and markets
- 2.Deploy **local bioeconomies** rapidly across the whole of Europe

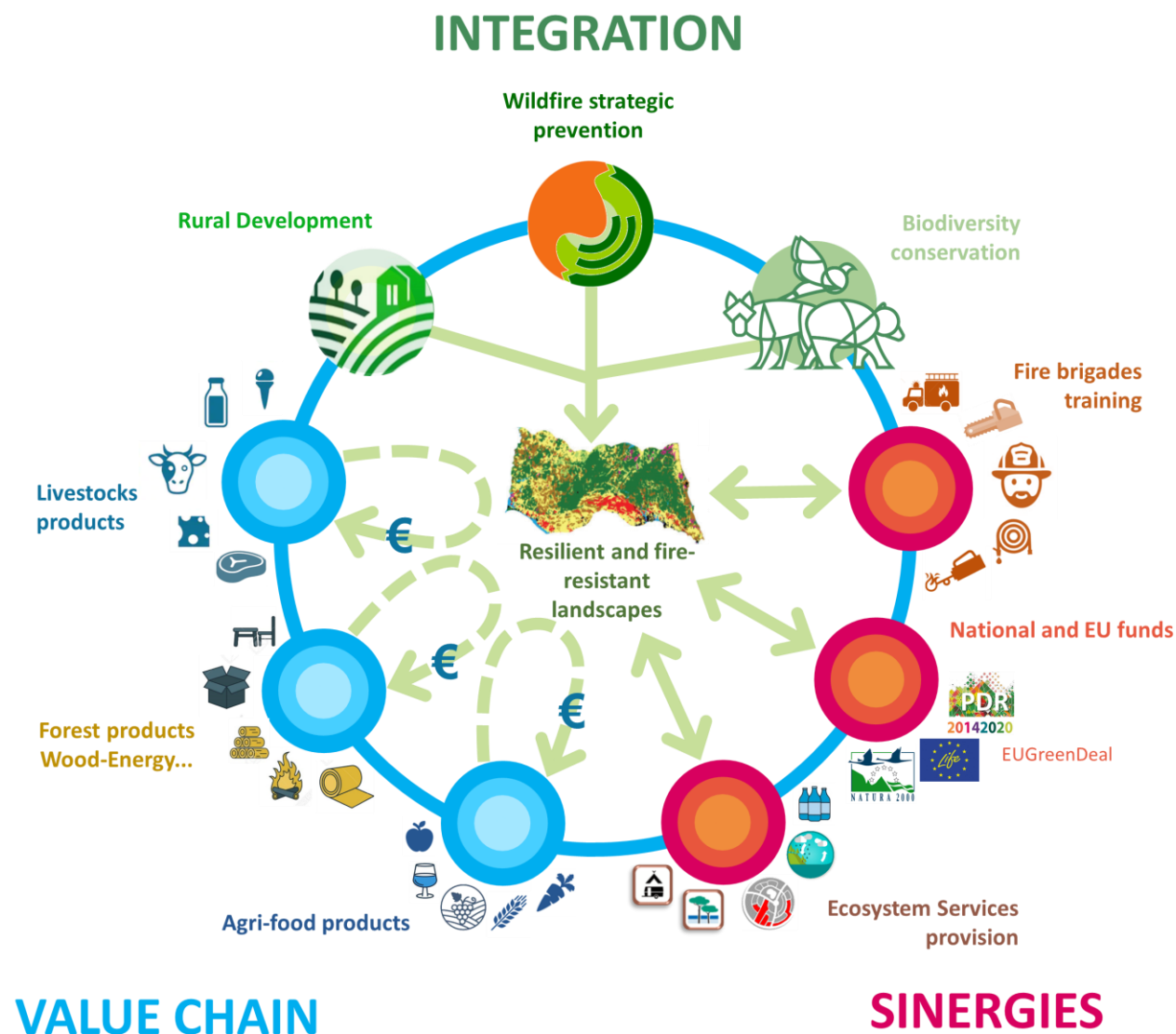
Eco-schemes & land management contracts for forest-environment-climate services and forest conservation;

sustainable food **labelling framework** that covers (...) climate, **environmental** and **social aspects** of food products.



Smart solutions within PREVAIL

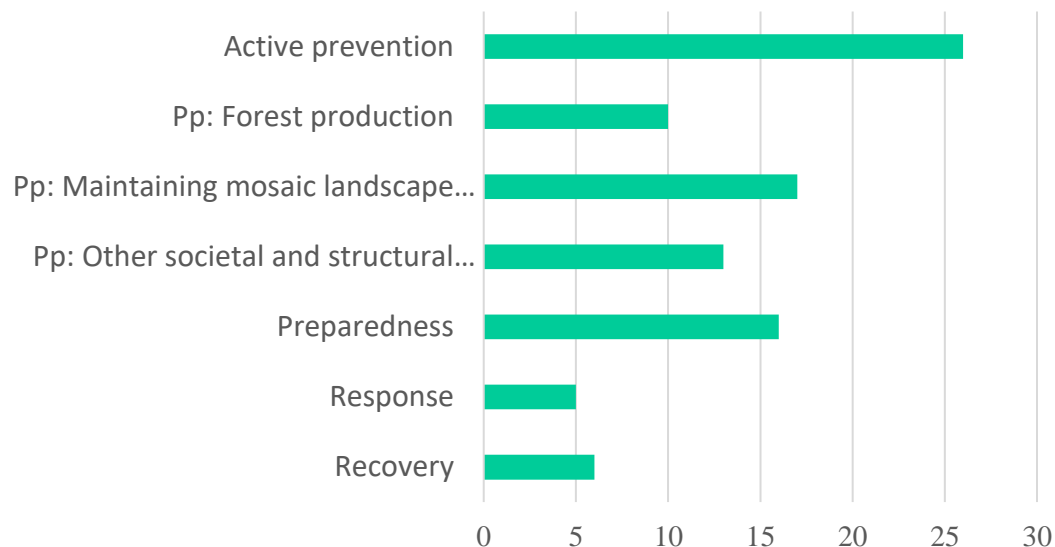
“practical measures and initiatives implemented in a **sustainable manner**, enhancing **cost-efficiency**, optimizing the **synergies and cooperation** from a multi-objective perspective, able to capitalize the **best existing knowledge** and being permanently updated under a **lessons learnt** approach”



Smart solutions within PREVAIL

Initiatives and smart solutions towards fire resilient landscapes	
Basic information	
Name	ID PRE
Promoter	
Scope	<input type="checkbox"/> Regional/Sub-regional <input type="checkbox"/> National <input type="checkbox"/> EU <input type="checkbox"/> Place
General focus (mark as much as necessary)	
Classes into DRM cycle phases	<input type="checkbox"/> Active prevention <input type="checkbox"/> Preparedness <input type="checkbox"/> Response <input type="checkbox"/> Recovery
	<input type="checkbox"/> Passive prevention <input type="checkbox"/> Forestry production <input type="checkbox"/> Maintaining mosaic landscape and grazing <input type="checkbox"/> Other societal and structural support to rural development
Description and complementary information	
Main category	<input type="checkbox"/> Best practice <input type="checkbox"/> Field reference guide / training material <input type="checkbox"/> Mobil app. / portal web <input type="checkbox"/> Software / IT / DSS <input type="checkbox"/> Video / Media resource
Available languages	
Short description	
Complementary information	
Web link	
Contact	

Initiatives by DRM phases and sub-classes



<http://lessonsonfire.eu/solutions-map>



Active prevention

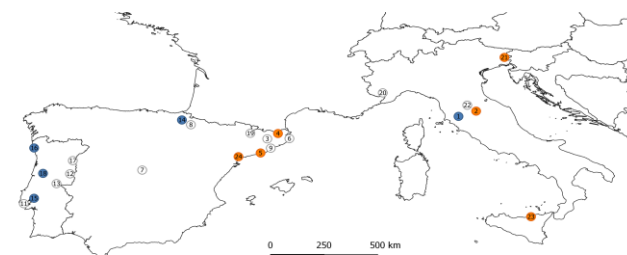
Preparedness

Passive prevention

- Forestry production
- Maintaining mosaic
- Other support

Response

Recovery



Clasificación de soluciones inteligentes

Soluciones inteligentes que producen bienes (Tabla 1)

- 2. Life Granatha
- 4. Rebaños de fuego
- 5. Life Monserrat
- 10. Bosques del Valls
- 21. Red de empresas "Llinda Cirsica"
- 23. Paneles naturales de corcho, Syfar
- 24. Perímetro de Protección Prioritaria

Soluciones inteligentes que generan servicios (Tabla 2)

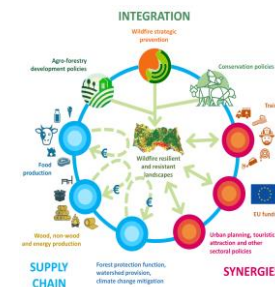
- 1. Centro de entrenamiento Toscana

- 14. Proyecto Open2preserve
- 15. Proyecto Silvast
- 16. Conservación del lobo ibérico
- 18. REN-Redes Energéticas Nacionales
- 3. Life Demogest
- 6. Biomasa en Calonge
- 7. Proyecto Geprif
- 8. Proyecto Promobiomasse
- 9. Life Pinassa

- 11. Life Elia-Art
- 12. Pastoreo en Baldios da Malcata
- 13. Escuela de pastores
- 17. Pastoreo en Reserva Faia Brava
- 19. ORGEST
- 20. Centro de entrenamiento Piemonte
- 22. Biomasa para reducción incendios
- Limites nacionales

Some **key aspects** moving forward **fuel management smart solutions**

(Gap analysis – Deliverable 4.2)



- ✓ **Huge needs for limited resources** (budget available & lack of profitability and facilities & bureaucracy & legal constrains in forest ownerships)
- ✓ **Policy harmonization and coherence** (landscaping WFRM)
- ✓ **Formal recognition** (and retribution) **of wildfire prevention function**
- ✓ **Coordination and collaborative private-public frameworks** (gaps on risk calculation)
- ✓ **Novel funding mechanisms** (future expenses, social demands - land managers, ..)
- ✓ **Societal awareness and participation into DRR strategies** (bioeconomy, fire-adapted communities, RM scenarios choose..)
- ✓ Be aware : Perceived **conflict** SFM & Biodiversity conservation ?



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Thanks for your attention !!