

prevail



funded by the European Union Civil Protection Mechanism Programme



PREvention Action Increases Large fire response preparedness

<https://www.prevailforestfires.eu/>





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Coordinator:



UNITUS – *UNIVERSITY OF TUSCIA- Department of Innovation in Biology, Agri-food and Forest systems* - DIBAF – **Italy**,

<http://www.unitus.it/it/dipartimento/dibaf/>

Partners:



UNINA - *UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II, Department of agricultural science* – **Italy**,

<http://www.unina.it/>



CTFC - *FOREST SCIENCE AND TECHNOLOGY CENTRE OF CATALONIA* – **Spain**,
<http://www.ctfc.cat/en/>



DEMETER - *INSTITUTE OF MEDITERRANEAN AND FOREST ECOSYSTEMS*– **Greece**,
<http://www.fria.gr/>



ISA – *UNIVERSITY OF LISBON, INSTITUTO SUPERIOR DE AGRONOMIA* - **Portugal**,
<http://www.isa.ulisboa.pt/ceabn/>

Background: Wildfire regimes → extreme events

- Ongoing climate warming (extreme weather conditions) & landscape-scale build-up of fuels = perfect storm
- Fireline intensity limit for Indirect attack is $\sim 10,000 \text{ kWm}^{-1}$

Extreme wildfires always exceed these limits, resulting in large & severe and large fires, sometimes disasters



UCPM

European Union Civil Protection Mechanism (UCPM) can be activated



coordinated, rapid and effective international response, through a direct link with national civil protection authorities



UCPM 2017 | 27 activations

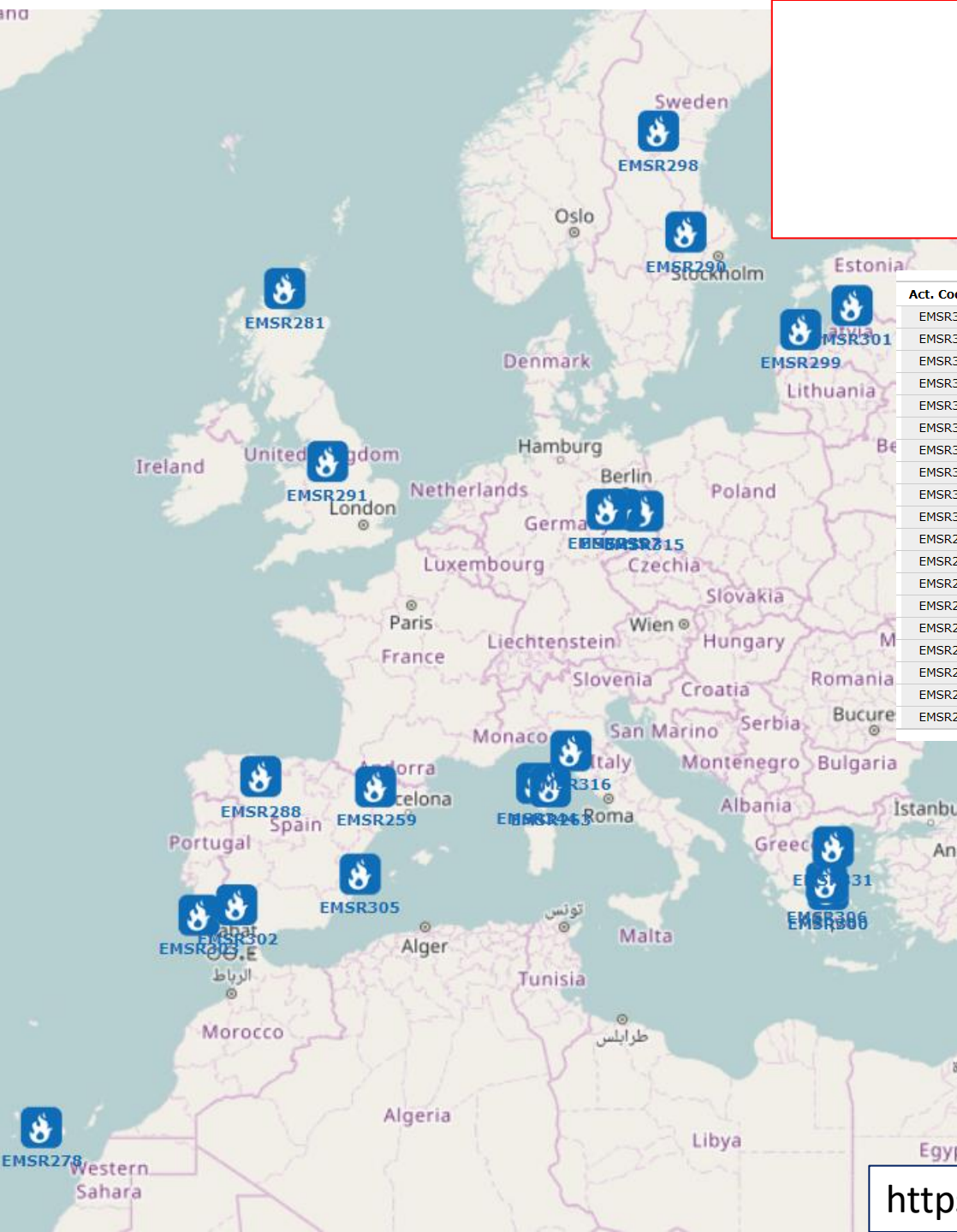
Extremely large fires
June 2017, Portugal~
45000 ha, 66 fatalities

Act. Code	Title	Event Date	Type	Country/Terr.
EMSR259	Forest Fire in Aragon	2017-12-04	Wildfire	Spain
EMSR254	Forest Fires in Castilla y León region,...	2017-10-15	Wildfire	Spain
EMSR253	Forest fire in Piemonte, Italy	2017-10-27	Wildfire	Italy
EMSR252	Wildfire in Corsica	2017-10-23	Wildfire	France
EMSR250	Forest fire Portugal	2017-10-15	Wildfire	Portugal
EMSR248	Forest Fires in Castilla y León region,...	2017-07-29	Wildfire	Spain
EMSR247	Forest fire in Borjomi area, Georgia	2017-09-22	Wildfire	Georgia
EMSR242	Forest Fire in Western Achaia, Greece	2017-09-11	Wildfire	Greece
EMSR239	Forest fire in Andalusia, Spain	2017-09-09	Wildfire	Spain
EMSR237	Forest fire in Andalusia, Spain	2017-09-09	Wildfire	Spain
EMSR230	Forest Fire in Nagyiván, Hungary	2017-08-03	Wildfire	Hungary
EMSR227	Forest fire in Leon, Spain	2017-08-22	Wildfire	Spain
EMSR226	Wildfire in Georgia	2017-08-20	Wildfire	Georgia
EMSR224	Forest fire in Zakynthos Island and North-...	2017-08-11	Wildfire	Greece
EMSR221	Forest fire in Corsica, France	2017-08-11	Wildfire	France
EMSR220	Forest fires in Bizerte, Tunisia	2017-07-31	Wildfire	Tunisia
EMSR219	Wildfire in Jaen	2017-08-03	Wildfire	Spain
EMSR218	Wildfire in Greenland	2017-08-03	Wildfire	Greenland
EMSR217	Forest fire in southern Albania	2017-08-03	Wildfire	Albania
EMSR216	Forest fire in Natural Reserve of Calar	2017-07-27	Wildfire	Spain
EMSR214	Forest Fires in Southern France	2017-07-24	Wildfire	France
EMSR213	Forest Fire in Southern Italy	2017-07-11	Wildfire	Italy
EMSR211	Forest Fires in Castellón Province	2017-06-28	Wildfire	Spain
EMSR210	Forest Fires in Rio Tinto, Huelva Province	2017-07-03	Wildfire	Spain
EMSR209	Forest Fires in Doñana, Huelva Province	2017-06-24	Wildfire	Spain
EMSR207	Forest fires in Leiria District, Portugal	2017-06-17	Wildfire	Portugal



<https://emergency.copernicus.eu/mapping/>

UCPM 2018 | 19 activations



Act. Code	Title	Event Date	Type	Country/Terr.	Feed
EMSR331	Forest Fire in Sithonia, Greece	2018-10-25	Wildfire	Greece	
EMSR316	Forest Fire in Tuscany, Italy	2018-09-24	Wildfire	Italy	
EMSR315	Fire in Brandenburg, Germany	2018-09-21	Wildfire	Germany	
EMSR307	Forest Fire in Jüterborg, Germany	2018-08-23	Wildfire	Germany	
EMSR306	Forest Fire in Evia Island, Greece	2018-08-12	Wildfire	Greece	
EMSR305	Forest Fire in Valencia, Spain	2018-08-06	Wildfire	Spain	
EMSR303	Forest Fire in Faro, Portugal	2018-08-03	Wildfire	Portugal	
EMSR302	Wildfire in Andalucia, Spain	2018-08-02	Wildfire	Spain	
EMSR301	Forest Fire in Latvia	2018-08-01	Wildfire	Latvia	
EMSR300	Forest Fires in Attika, Greece	2018-07-23	Wildfire	Greece	
EMSR299	Forest Fire in Latvia	2018-07-18	Wildfire	Latvia	
EMSR298	Forest Fire in Central Sweden	2018-07-16	Wildfire	Sweden	
EMSR295	Forest fire in Saxony-Anhalt, Germany	2018-07-04	Wildfire	Germany	
EMSR291	Wildfire in England	2018-06-24	Wildfire	United Kingdom	
EMSR290	Forest fire in Sweden	2018-06-03	Wildfire	Sweden	
EMSR288	Forest fire NW Spain	2018-05-12	Wildfire	Spain	
EMSR281	Wildfires in Northern Scotland	2018-04-15	Wildfire	United Kingdom	
EMSR278	Forest Fire in Tenerife, Spain	2018-04-08	Wildfire	Spain	
EMSR263	Forest fire in Corsica, France	2018-01-04	Wildfire	France	

23-26 July 2018, Attica,
Greece
100 fatalities

<https://emergency.copernicus.eu/mapping/>

UCPM 2019 | 33 activations



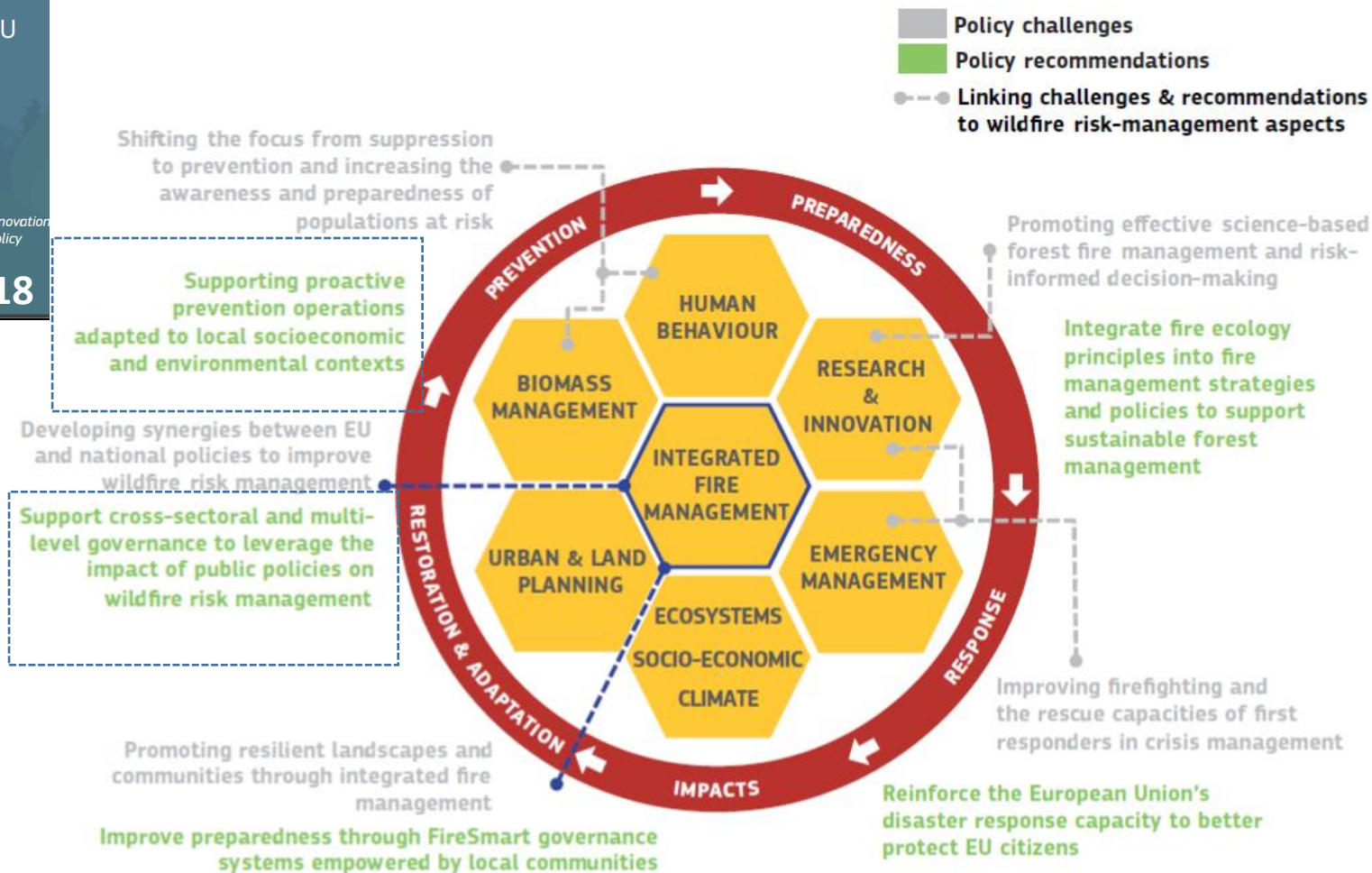
Act. Code	Title	Event Date	Type	Country/Terr.	Feed
EMSR408	Wildfires in New South Wales, Australia	2019-11-06	Wildfire	Australia	
EMSR403	Forest fire in Serbia	2019-10-27	Wildfire	Serbia	
EMSR401	Forest fire in Sardinia, Italy	2019-10-22	Wildfire	Italy	
EMSR396	Fires in Lebanon	2019-10-15	Wildfire	Lebanon	
EMSR394	Forest fire in Campania, Italy	2019-09-20	Wildfire	Italy	
EMSR390	Forest fire in Zakynthos Island, Greece	2019-09-15	Wildfire	Greece	
EMSR389	Forest fire in Loutraki area, Greece	2019-09-14	Wildfire	Greece	
EMSR387	Forest fire in San Ignacio de Velasco,...	2019-08-23	Wildfire	Bolivia	
EMSR386	Forest fire in Aveiro District, Portugal	2019-09-05	Wildfire	Portugal	
EMSR383	Forest fires in South America	2019-08-01	Wildfire	Bolivia, Brazil, Paraguay	
EMSR382	Forest fire in Valleseco, Gran Canaria,...	2019-08-17	Wildfire	Spain	
EMSR381	Forest fire in Cazadores, Spain	2019-08-12	Wildfire	Spain	
EMSR380	Forest fire in Evia Island, Greece	2019-08-13	Wildfire	Greece	
EMSR379	Forest fire in Artenara, Spain	2019-08-10	Wildfire	Spain	
EMSR378	Wildfire in West Greenland	2019-08-12	Wildfire	Greenland	
EMSR377	Wildfire in Sardinia, Italy	2019-08-06	Wildfire	Italy	
EMSR375	Forest fire in Segovia, Spain	2019-08-04	Wildfire	Spain	
EMSR374	Fire in Sardinia, Italy	2019-07-28	Wildfire	Italy	
EMSR373	Fires in Zaragoza, Spain	2019-07-23	Wildfire	Spain	
EMSR372	Fire in Castelo Branco, Portugal	2019-07-20	Wildfire	Portugal	
EMSR371	Fire in Sardinia, Italy	2019-07-13	Wildfire	Italy	
EMSR370	Forest fire in Sierra de Gador, Spain	2019-07-13	Wildfire	Spain	
EMSR369	Forest Fire in Evia Island, Greece	2019-07-04	Wildfire	Greece	
EMSR368	Forest Fire in Castile and León, Spain	2019-06-28	Wildfire	Spain	
EMSR367	Wildfire in Community of Madrid, Spain	2019-06-28	Wildfire	Spain	
EMSR366	Forest fire in Mecklenburg-Western...	2019-06-30	Wildfire	Germany	
EMSR365	Fire in Torre de l'Espanyol, Spain	2019-06-26	Wildfire	Spain	
EMSR363	Forest Fire in Brandenburg, Germany	2019-06-03	Wildfire	Germany	
EMSR362	Forest Fire in Andalusia, Spain	2019-06-01	Wildfire	Spain	
EMSR360	Forest Fire in Canary Islands, Spain	2019-05-15	Wildfire	Spain	
EMSR353	Wildfire in Lower Saxony, Germany	2019-04-22	Wildfire	Germany	
EMSR345	Forest Fire in Mount Kenya, Kenya	2019-03-01	Wildfire	Kenya	
EMSR344	Forest fire in Corsica, France	2019-02-24	Wildfire	France	

11 nuove notifiche

<https://emergency.copernicus.eu/mapping/>



EU Policy perspective: integrated fire management





Fire resistant and resilient (FRR) landscapes

In response to these alarming trends, a priority should be greater attention to **land-based fire prevention practices** as part of integrated fire management. These practices can translate into more fire-resistant and resilient landscapes and communities that are better equipped to face the expected risks.



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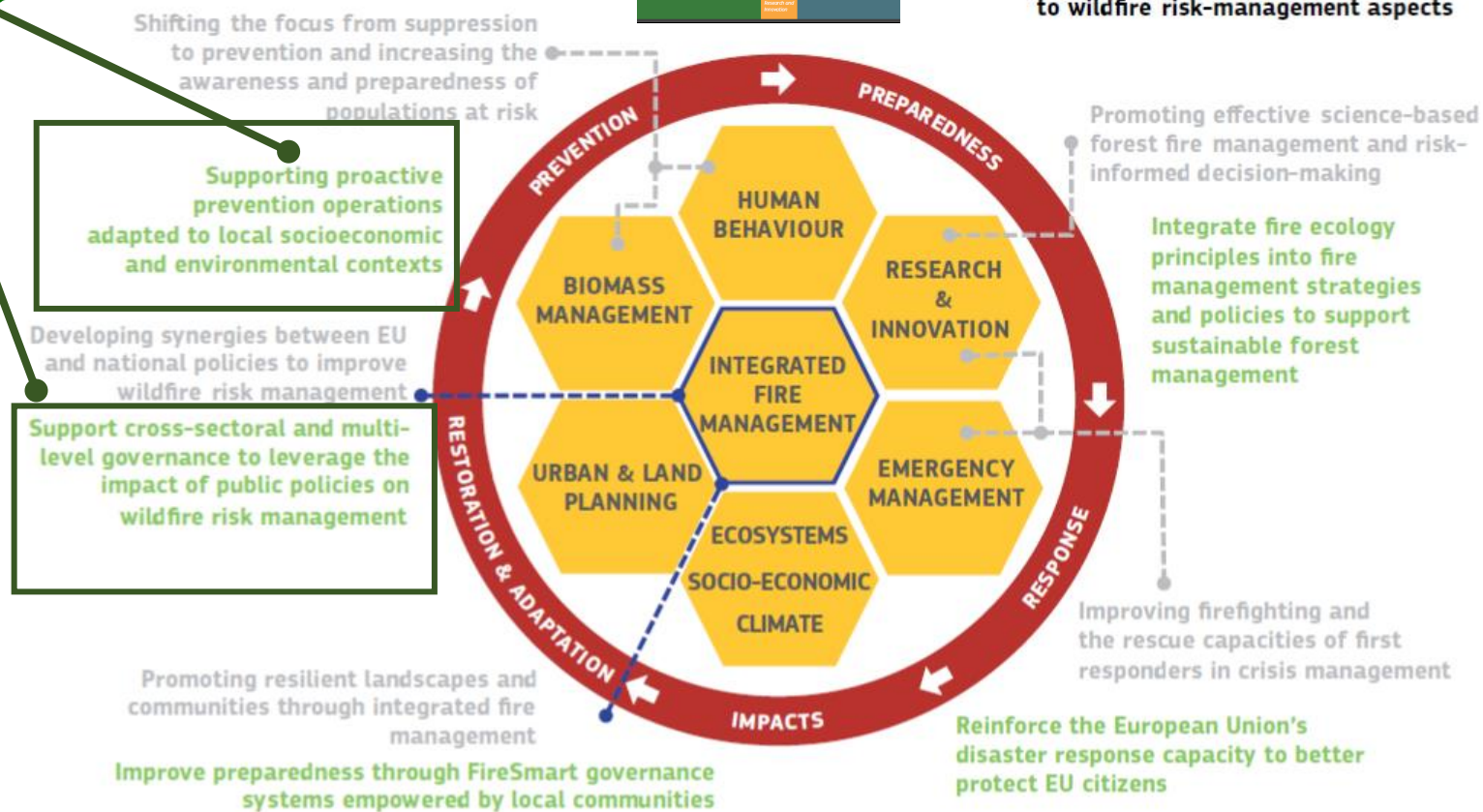
The Union Civil Protection
Mechanism (**UCPM**)
co-finance projects that
support Member and
Participating States' efforts
in the field of **disaster
preparedness and
prevention**

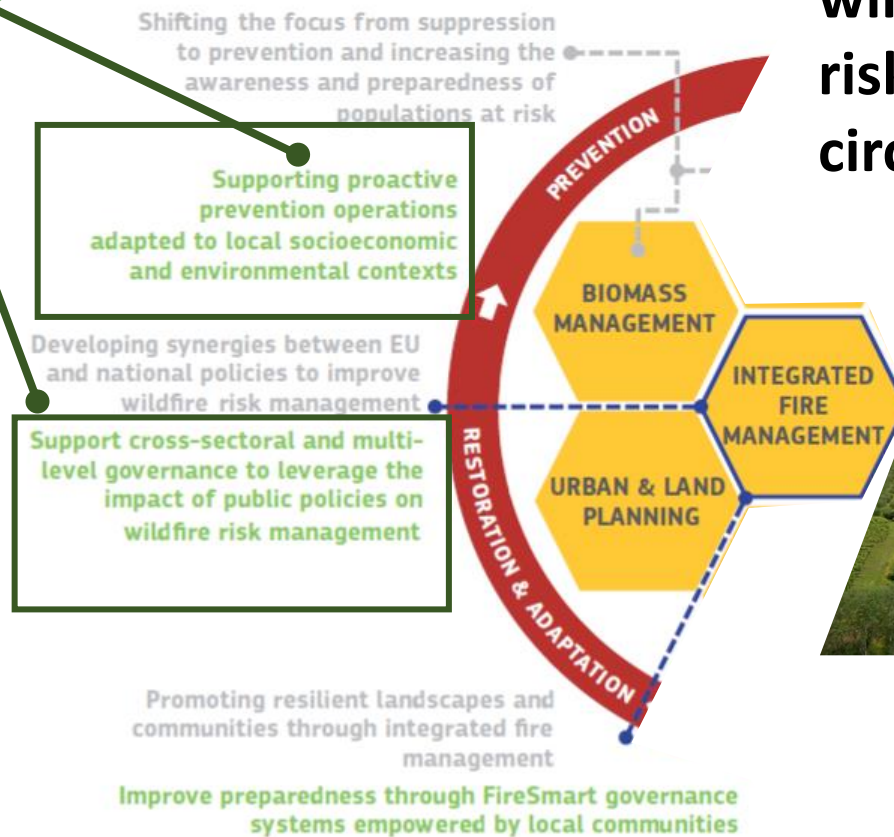


**landscape scale fire prevention
can make fire suppression more
effective and less costly**



- Policy challenges
- Policy recommendations
- Linking challenges & recommendations to wildfire risk-management aspects



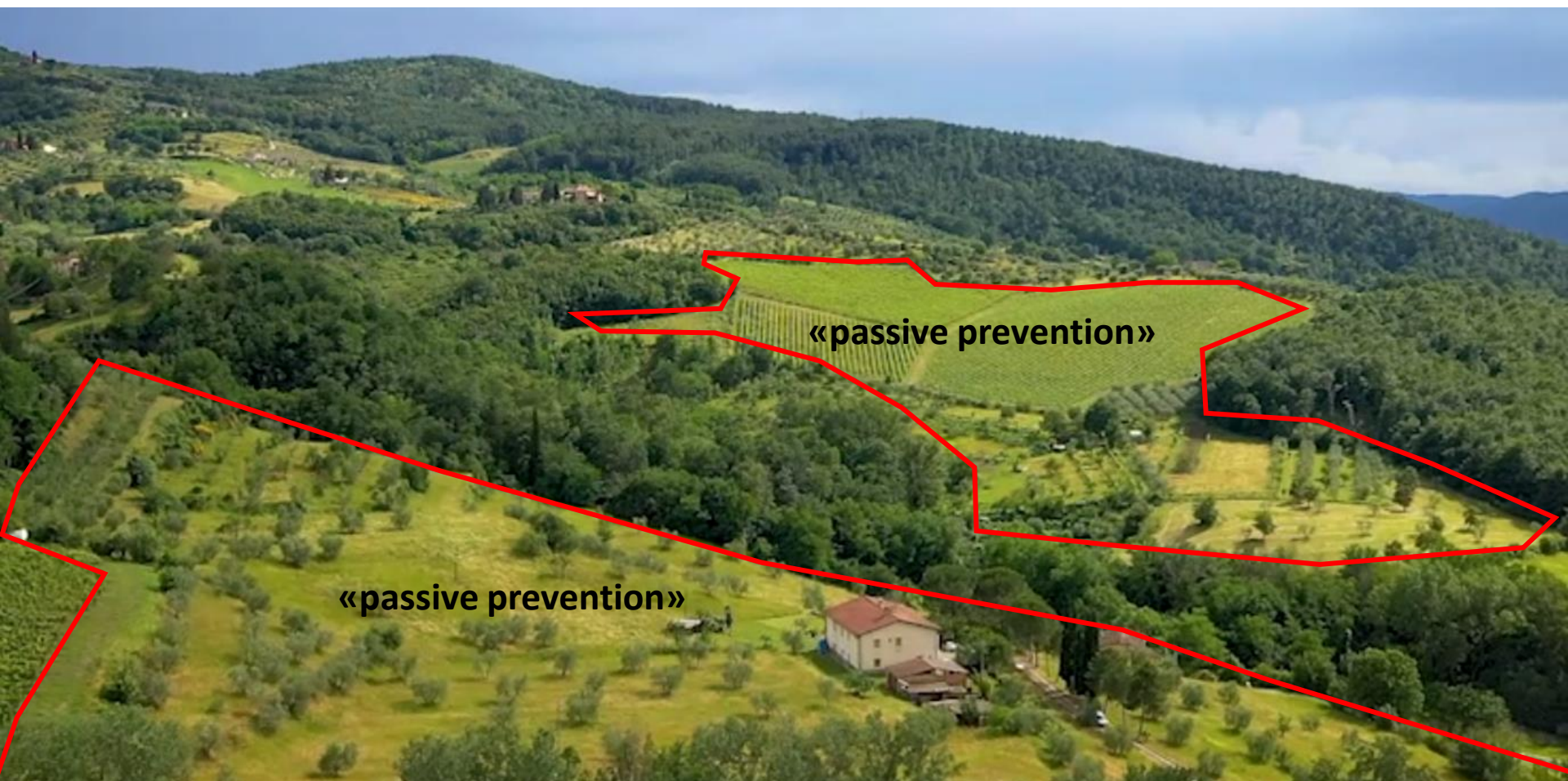


How can we mitigate wildfire risk in a cost efficient & circular way?



Analyzing EU funding on wildfire prevention
(e.g. Rural Development Programs, active and
passive prevention)

Understanding which land cover types «stop»
wildfires and help reducing fire fighting effort





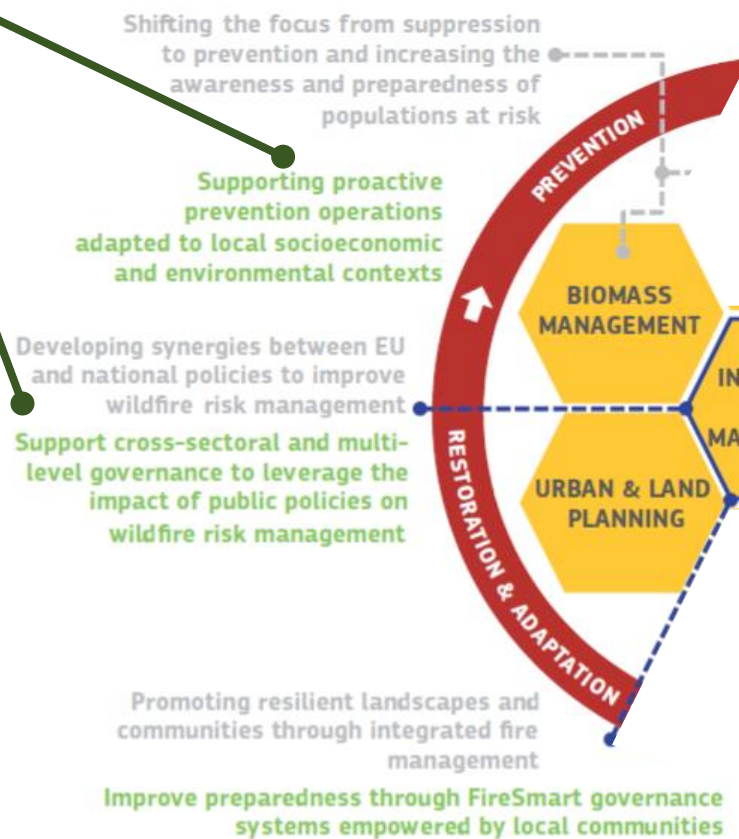
Fire resilient landscapes: (em)powered by local communities

**Cost efficient & circular processes
to sustain fuel management =
SMART SOLUTIONS**

**Socio-Ecological Decision Support
System (DSS) for effective fuel
management**

***(Is there a need for fuel
management? Where to treat?
How and when to treat?)***





Funds invested in forest fire prevention in Mediterranean countries (A. Tomao)

Where large fire occur and stop & simulated influence of fuel treatments on firefighting (G. Xanthopolous)

Best practices and smart solutions towards fire resilient landscapes (E. Plana & M. Serra)

Socio-ecological decision support system (DSS) for effective fuel management (F. Rego & C. Colaço)

Final Conference

21 april 2021 09:00 - 13:00 CEST

Online - registration required on:

www.prevailforestfires.eu/conference

partners:



Funded by
European Union
Civil Protection and
Humanitarian Aid

Program

09.00 – 09.15: Welcome and conference presentation

Anna Barbati (Project coordinator, University of Tuscia)

09.15 – 10.00: Project results overview

Antonio Tomao (University of Tuscia)

Funds invested in forest fire prevention in Mediterranean countries

Gavriil Xanthopoulos (DEMETER – Institute of Mediterranean & Forest Ecosystems)

Where and when large fires occur in southern Europe and where they stop and simulated influence of fuel treatments on firefighting demand

Eduard Plana Bach & Marta Serra (Forest Science and Technology Centre of Catalonia)

Lessons learnt to enhance wildfire risk mitigation through agro-forestry and fuel management activities: framing best practices and smart solutions towards fire resilient landscapes

Francisco Rego & Conceição Colaço (CEABN, ISA, University of Lisbon)

Socio-ecological decision support system (DSS) for effective fuel management

10.00 – 11.15: DSS – Serious Game

Moderators:

Francisco Rego & Conceição Colaço (CEABN, ISA, University of Lisbon)

Smart solutions documentary trailer

(University of Naples Federico II, Compagnia delle Foreste)

11.15 – 11.45: Break

11.45– 12.45: Round table:

Bioeconomy and fire management in Southern Europe

Moderator:

Davide Ascoli (University of Turin)

Invited speakers:

Ana Noriega (General Secretary PEFC Spain)

Inazio Martínez de Arano (Director of EFIMED)

Davide Pettenella (University of Padova)

12.45 – 13.00: Conclusions

Evangelia Tsartsou (DG for European Civil Protection and Humanitarian Aid Operations)

Scientific Committee

Francesco Giannino, Mauro Moreno – *University of Naples Federico II*

Davide Ascoli – *University of Turin*

Anna Barbati, Antonio Tomao – *University of Tuscia*

Conceição Colaço, Catarina Sequeira, Vanda Acácio,

Francisco Castro Rego – *CEABN, ISA, University of Lisbon*

Gavriil Xanthopoulos – *DEMETER– Institute of Mediterranean & Forest Ecosystems*

Eduard Plana, Marta Serra – *Forest Science and Technology Centre of Catalonia*



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