

Roadmap of PREVAIL Decision Support System



PREVENTION ACTION INCREASES
LARGE FIRE RESPONSE PREPAREDNESS



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IS THERE A NEED FOR FUEL MANAGEMENT?

INPUT

- Hazard: Spatial assessment
- Potential Damage: Socioecological assessment



OUTPUT1: MAP OF FIRE RISK (HIGH RISK, MEDIUM RISK, LOW RISK)

Steps	1 st : list the name of the elements at risk	2 nd : classify their vulnerability	3 rd : classify their socio-ecological value (classify separately and sum the two values)		4 th : classify their recovery time	5 th : calculate final value
	Element at risk	Vulnerability	Ecological value	Socio economic value	Recovery time	Final value
Scale	N/A	(0 - 4)	(1 - 4)	(tangible or intangible) EUR or (1 - 4)	(1 - 4)	Multiply all previous classifications



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	HAZARD: Spatial assessment					
	0: Null	1: Very low	2: Low	3: Medium	4: High	5: Very high
0: Null	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
1: Very low	Low risk	Low risk	Low risk	Low risk	Medium risk	Medium risk
2: Low	Low risk	Low risk	Medium risk	Medium risk	Medium risk	Medium risk
3: Medium	Low risk	Low risk	Medium risk	Medium risk	High risk	High risk
4: High	Low risk	Low risk	Medium risk	High risk	High risk	High risk
5: Very high	Low risk	Medium risk	Medium risk	High risk	High risk	High risk

Medium risk is cost dependent



UNIVERSITÀ
DEGLI STUDI DELLA
TUSCIA



UNIVERSITÀ DEGLI STUDI DI NAPOLI
FEDERICO II



INSTITUTO
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DIAGNOSIS FOR FUEL MANAGEMENT – WHERE TO TREAT?

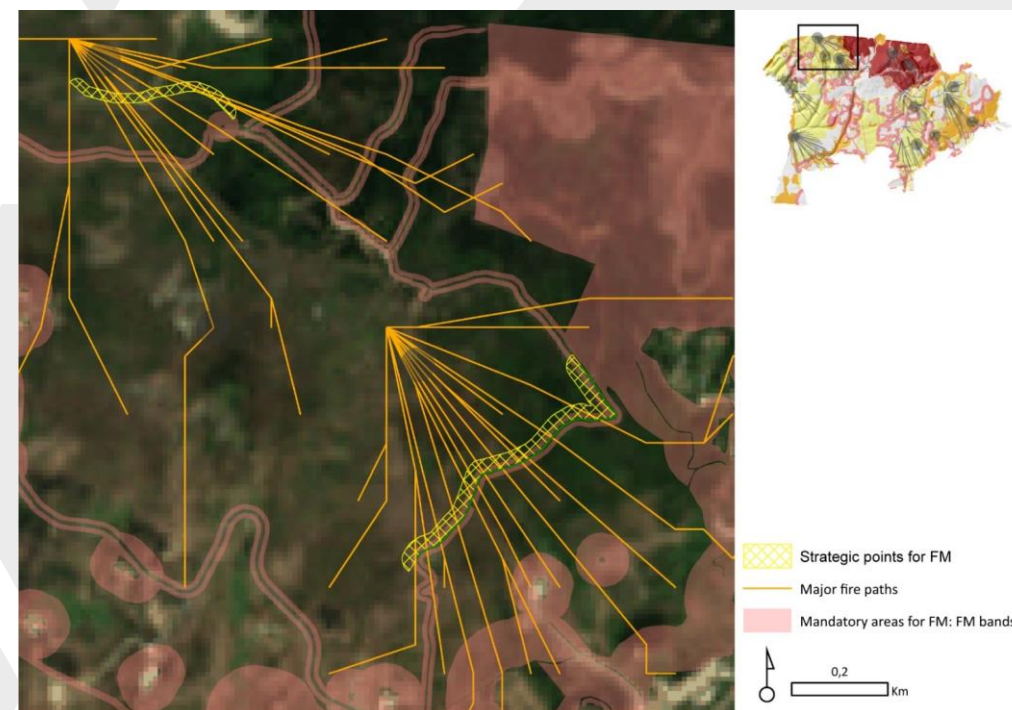
INPUT

- OUTPUT1
- Strategic points for fuel management (using fire simulators from ignition points)
- Legal obligations for fuel management

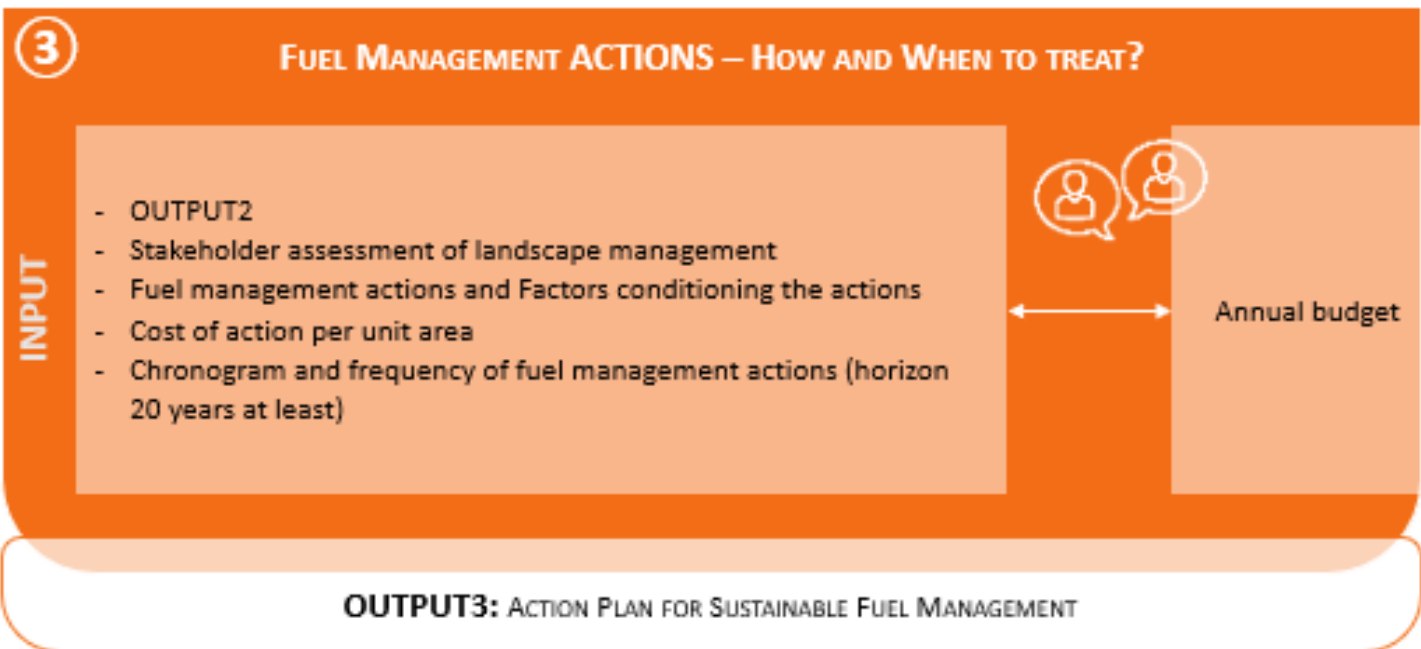
OUTPUT2: MAP OF CRITICAL AREAS OF FIRE SPREAD



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			Factors conditioning the actions			
			Smoke	Slope	Meteorology	Land cover
FM Actions	Business as usual	Machinery				
		Heavy machinery				E.g., protected areas
		Prescribed burning	E.g., highways, WUI		Window of opportunity	
	Landscape integrated management for fire prevention (Smart Solutions)	Agroforestry Management	Sheep			
			Livestock husbandry	Goats		
			Cows			
			Conservation	Wild animals		
		Wood forest products				
			Non-wood forest products	Resin extraction		
		LULC				
			Change in land use	Agriculture		
		LULC				

