



EUROPEAN FOREST INSTITUTE
ATLANTIC EUROPEAN REGIONAL OFFICE – EFIATLANTIC



Eduard Mauri

PLURIFOR project

Lessons learnt from collaborative forest risk
management improvement efforts

Interreg
Sudoe
European Regional Development Fund

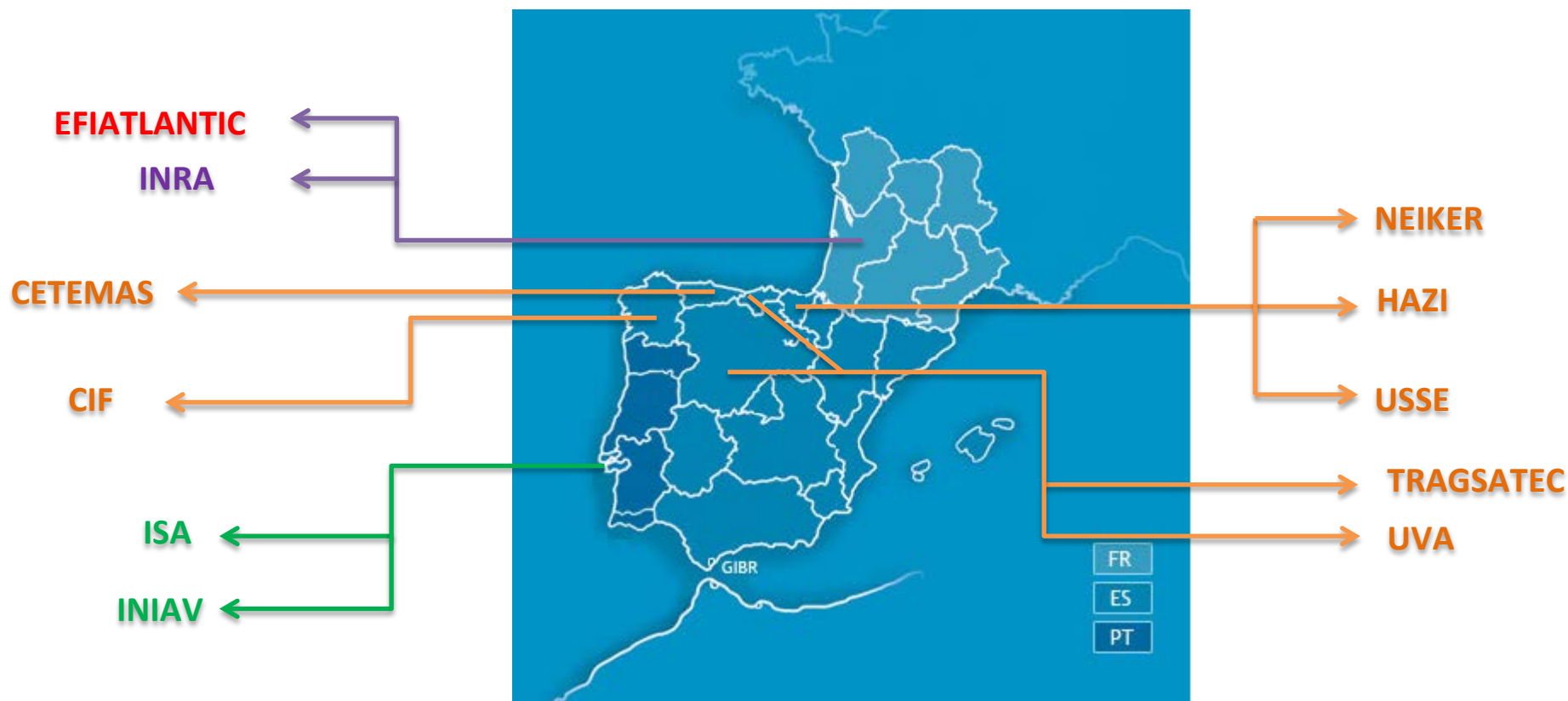


Networking for the European Forest Risk Facility initiative
Natural Hazards risk management workshop
Solonà, Catalonia, Spain, 4-6 October 2017

Goal and partners

Previous project **FORRISK**: network for innovative silviculture and integrated forest risk management systems

PLURIFOR: improve forest risk management plans by sharing international knowledge





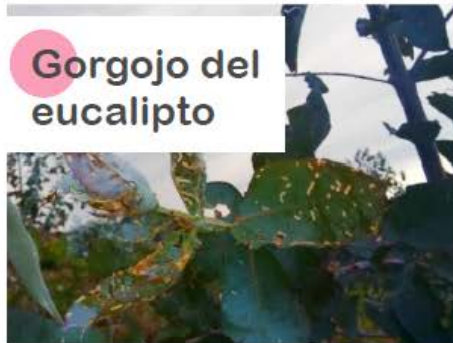
Avispilla del castaño



Nematodo de la madera del pino



Gorgojo del eucalipto



Chancro resinoso del pino



Plagas y enfermedades emergentes



Incendios forestales



Degradación del suelo



Tormenta



Fotos: PLURIFOR partners, Fotolia - dloboda, Forestry Images - Ignazio Graziosi





WP1: Analysis of organisations and tools for risk management



WP2: Tools implementation and create/improve risk management plans



WP3: Risk management plans evaluation



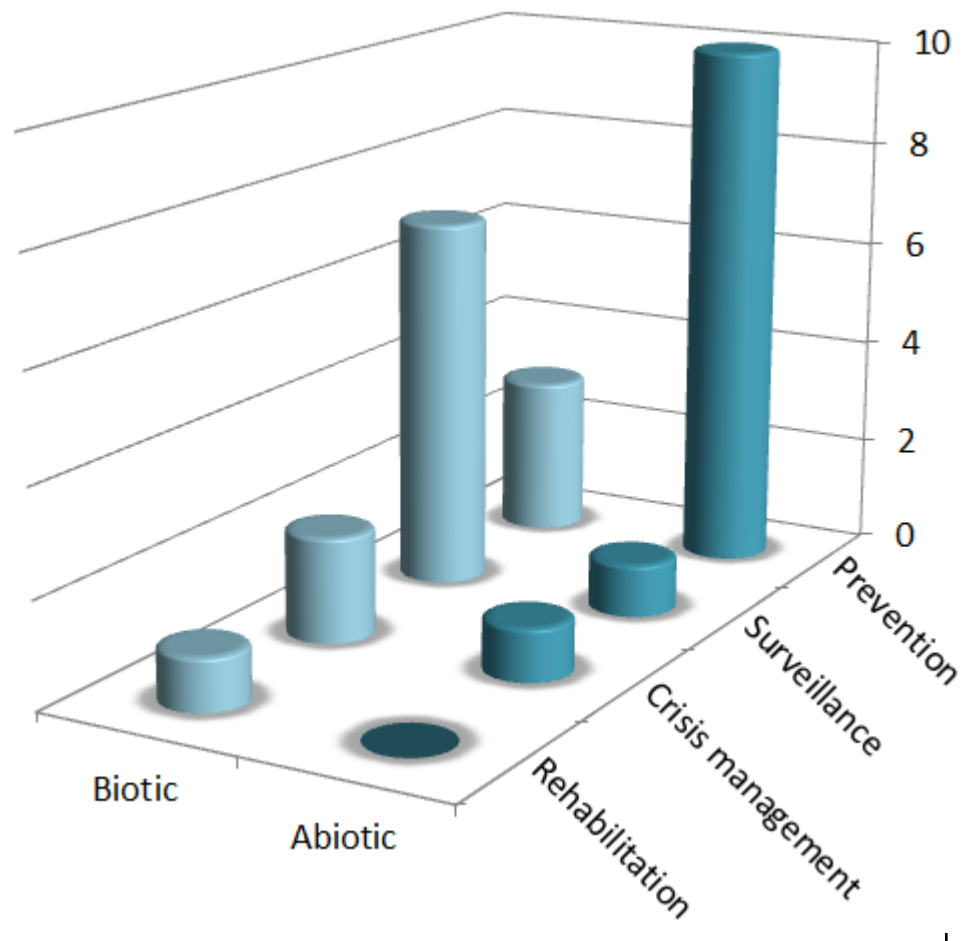
WP4 : Validation and transfer





T2.2: improving tools for RMP

Risk	Improved tools
Abiotic	n = 12
Storm	5
Fire	4
Soil degradation	3
Biotic	n= 13
Pinewood nematode	2
Chestnut gall wasp	4
Eucalypt weevil	1
Pine pitch canker	3
Emerging pests and pathogens	3





Lessons learnt

- Complex relationships, heterogeneous involvement
- Not taking enough advantage from partners
- Lack of synergies between risks
- Too much forest science, not enough social science





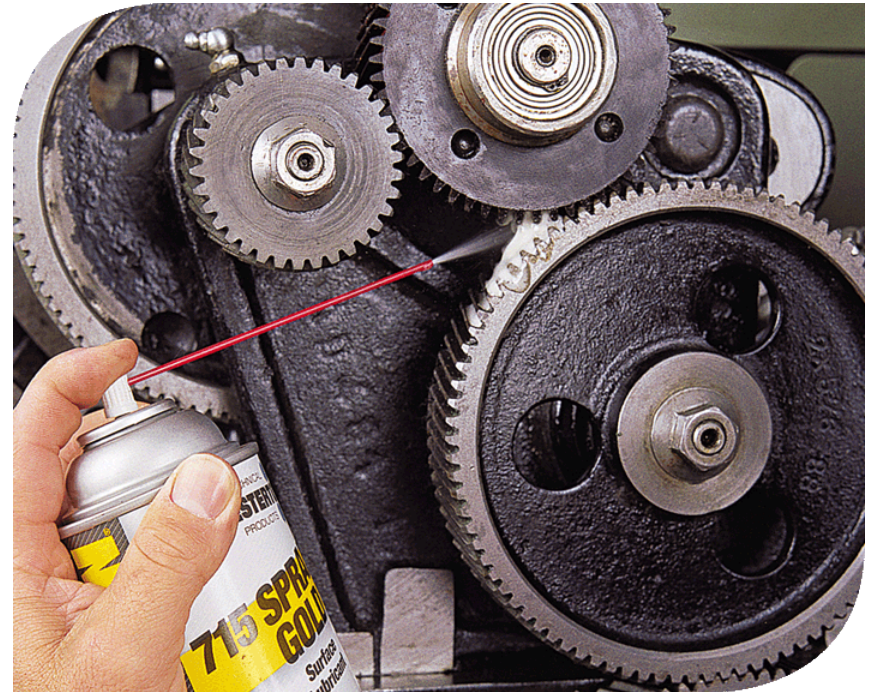
Complex relationships, heterogeneous involvement



	Partenaires										
	1	2	3	4	5	6	7	8	9	10	11
Partenaires associés	EFI	INRA	ISA	INIAV	NEIKER	HAZI	USSE	CIF	TRAGATEC	Uva	CETEMAS
1 Diputación Foral de Bizkaia España						x					
2 SERVICIO DE EMERGENCIAS DEL PRINCIPADO DE ASTURIAS											x
3 CELULOSAS DE ASTURIAS SA											x
4 Subdirección Xeral de Prevención e Defensa contra os Incendios Forestais								x			
5 ASOCIACION DE PROPIETARIOS FORESTALES DE ASTURIAS											x
6 ASOCIACION ASTURIANA DE EMPRESARIOS FORESTAL DE LA MADERA Y EL MUEBLE											x
7 Gobierno de Cantabria										x	
8 Junta de Castilla y León									x		
9 Diputación Foral de Álava						x					
10 Diputación Foral de Gipuzkoa						x					
11 SERVICIO REGIONAL DE INVESTIGACION Y DESARROLLO AGROALIMENTARIO											x
12 CONSEJERIA DE AGROGANADERIA Y RECURSOS AUTOCNOS											x
13 EMPRESA DE TRANSFORMACIÓN AGRARIA									x		
14 Servicios Agrarios Galegos								x			
15 Gobierno Vasco - Departamento de Desarrollo Económico y Competitividad					x	x					
16 Caisse de Prévoyance et de Protection des Forêts du Sud-Ouest		x									
17 Direction régionale de l'alimentation, de l'agriculture et de la forêt	x	x									
18 Association Régionale de Défense des Forêts Contre l'Incendie	x										
19 Altri Florestal			x								
20 Instituto da Conservação da Natureza e das Florestas				x							
21 RAIZ- Instituto de Investigação da Floresta e Papel			x								



- Delays
- Heterogeneous results

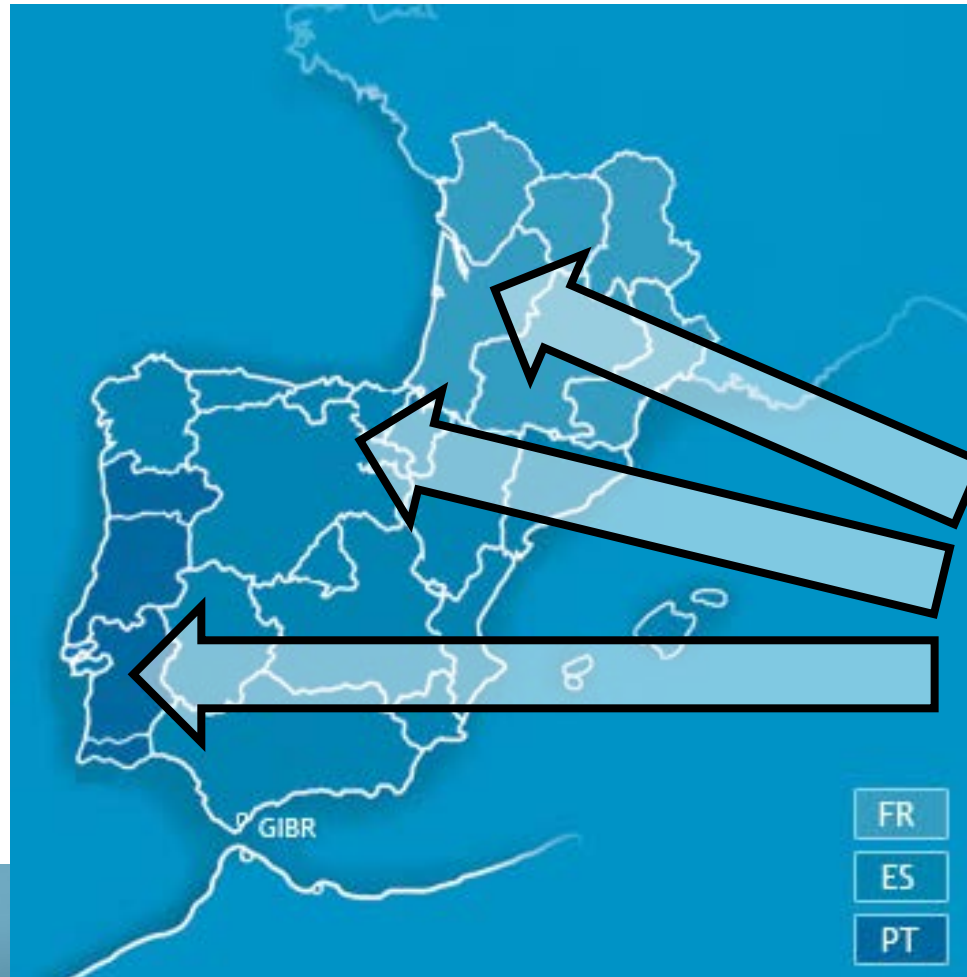








Not taking enough advantage from partners



USSE 
UNIÓN DE SELVICULTORES DEL SUR DE EUROPA





Lack of synergies between risks

Avispilla del castaño



Nematodo de la madera del pino



Gorgojo del eucalipto



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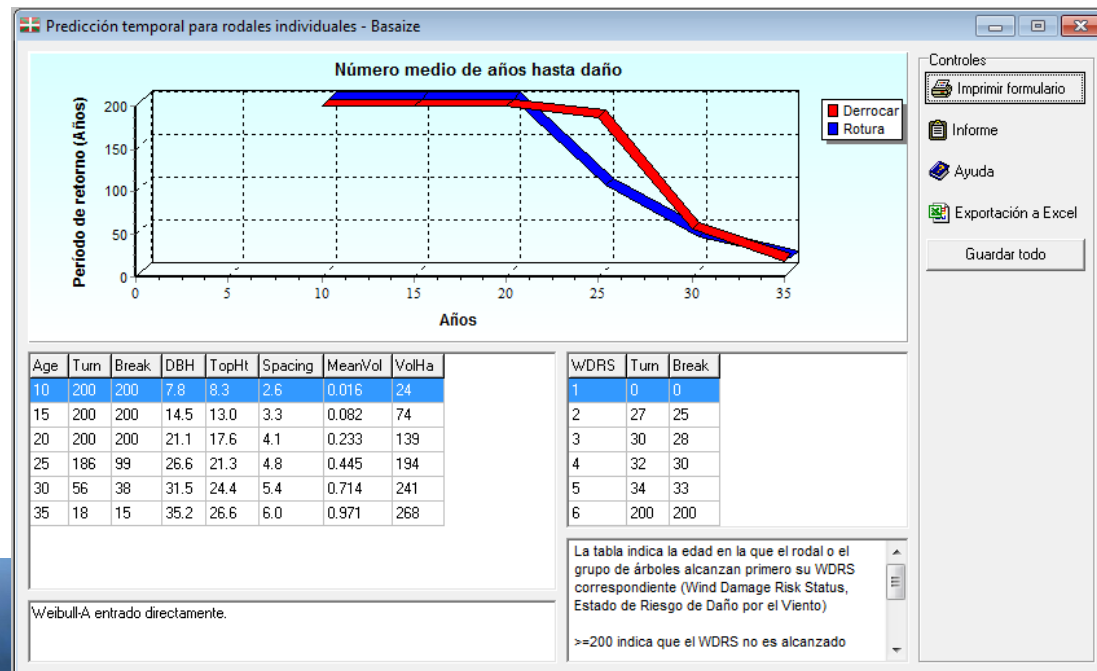
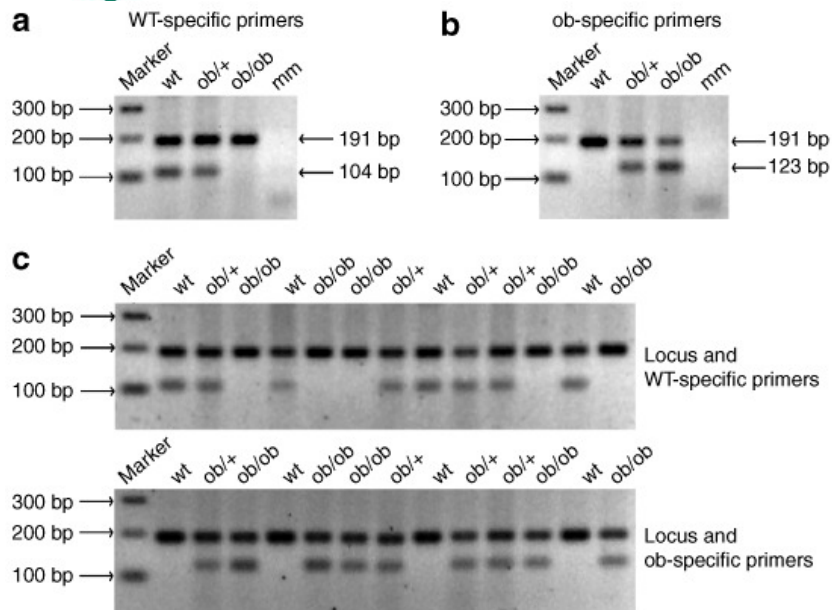
Fotos: PLURIFOR partners, Fotolia - dloboda, Forestry Images - Ignazio Graziosi

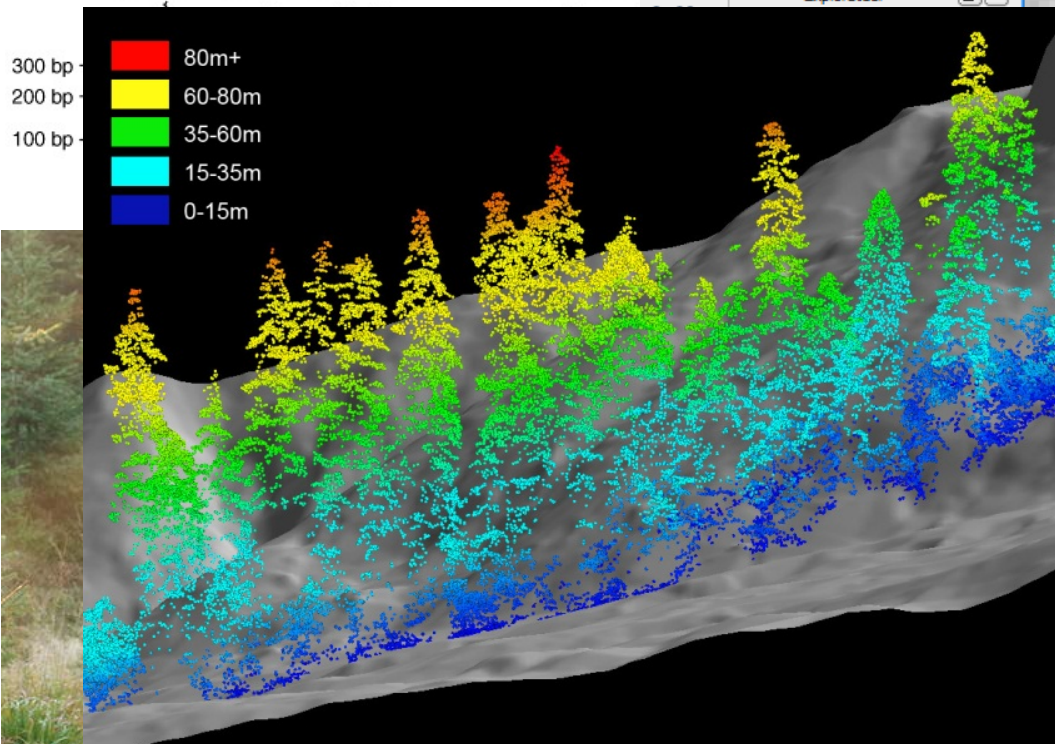
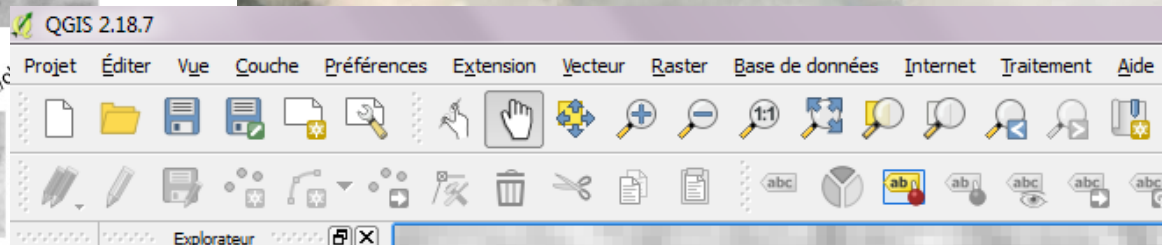
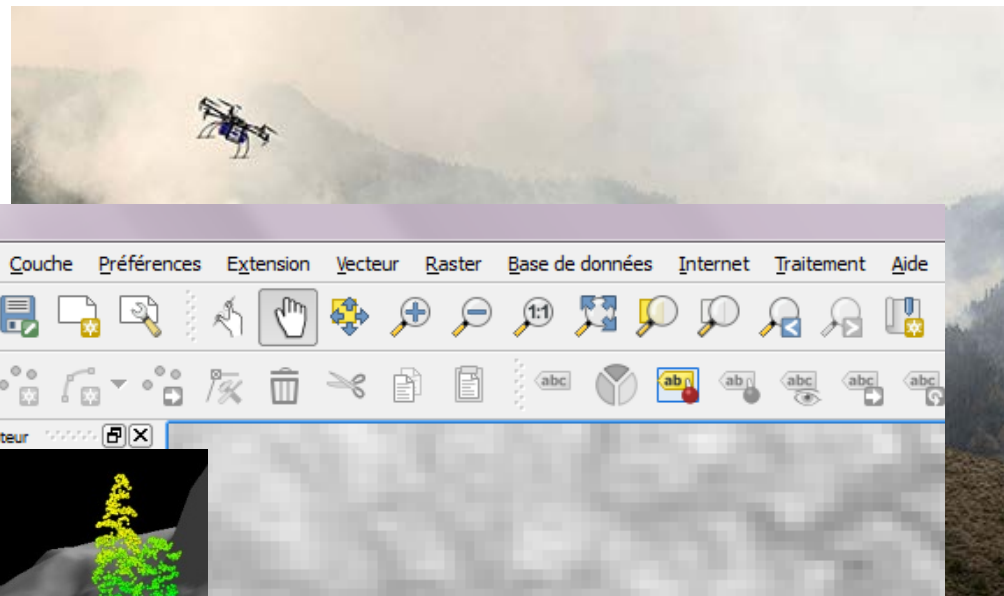
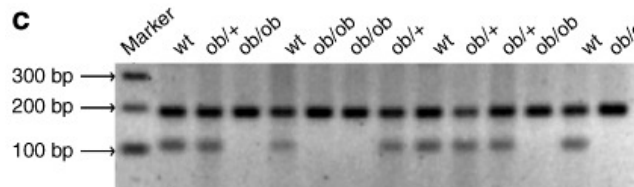
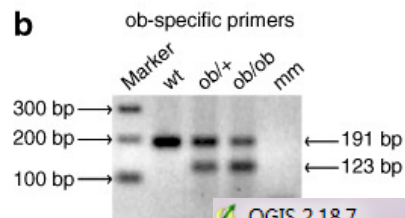
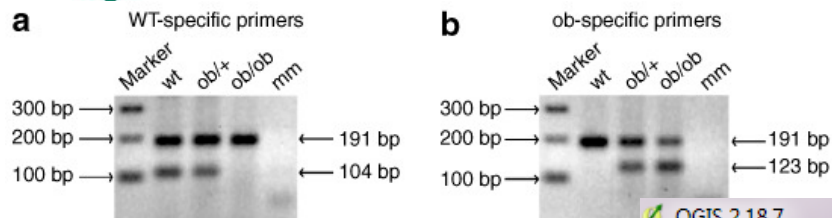




Too much forest science, not enough social science







0.233	193
0.445	194
0.714	241
0.971	268

3	30	29
4	32	30
5	34	33
6	200	200

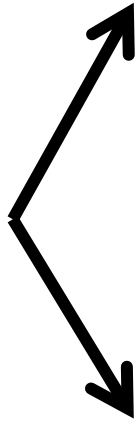
La tabla indica la edad en la que el rodal o el grupo de árboles alcanzan primero su WDRS correspondiente (Wind Damage Risk Status, Estado de Riesgo de Daño por el Viento)

>=200 indica que el WDRS no es alcanzado

Weibull-A entrado directamente.

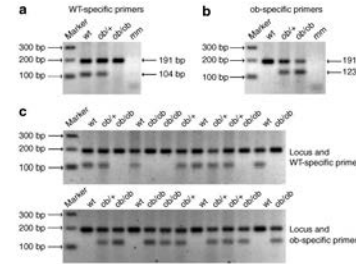
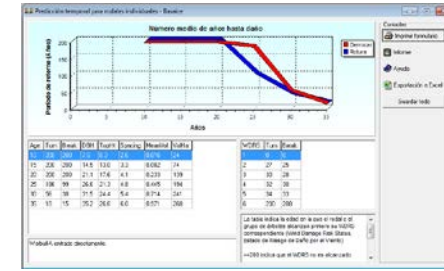
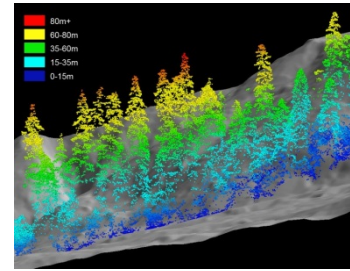


Forest risk
management
improvements
requested

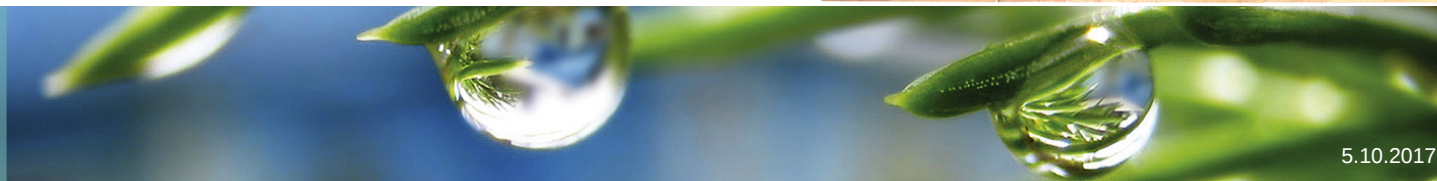


Technology-
oriented forest
science outputs

Social-oriented
forest science
outputs



social
awareness





Abiotic risks

Fire prevention

- Develop a national or trans-national awareness program in fire prevention (integrated into the risk management plan), and integrate primary sector actors' interests with forest conservation in order to reduce man-made ignitions.

Asturias:

- Improve the dialogue between authorities and primary sector actors and develop legal rules to solve the land use conflicts that currently lead to man-made fires.
- Promote financial support and regional planning for prevention.

Euskadi:

- Improve and update coordination.

Prevention

- Increase soil degradation risk awareness and knowledge among forestry and farming stakeholders.





Biotic risks

Prevention against pests and diseases

- Reinforce and improve a communication plan for general public, foresters and timber importers.
- Improve contact with forest owners.

Eradication, control and contingency of pests and diseases

In Portugal:

- Implement quick and bureaucracy-free procedures for a fast execution of eradication actions.

Prevention against pests and diseases

- Enhance communication and coordination between organisations responsible for eucalyptus weevil risk management, both public and private.
- Enhance information transfer to forest owners concerning the state of the pest, preventive measures, and provide more training. This could imply transferring prevention knowledge and tools from corporate forests to forest owners associations.





Lessons learnt

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**Thank you for your attention and
for the invitation!**



net risk work

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Funded by
European Union
Humanitarian Aid
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