



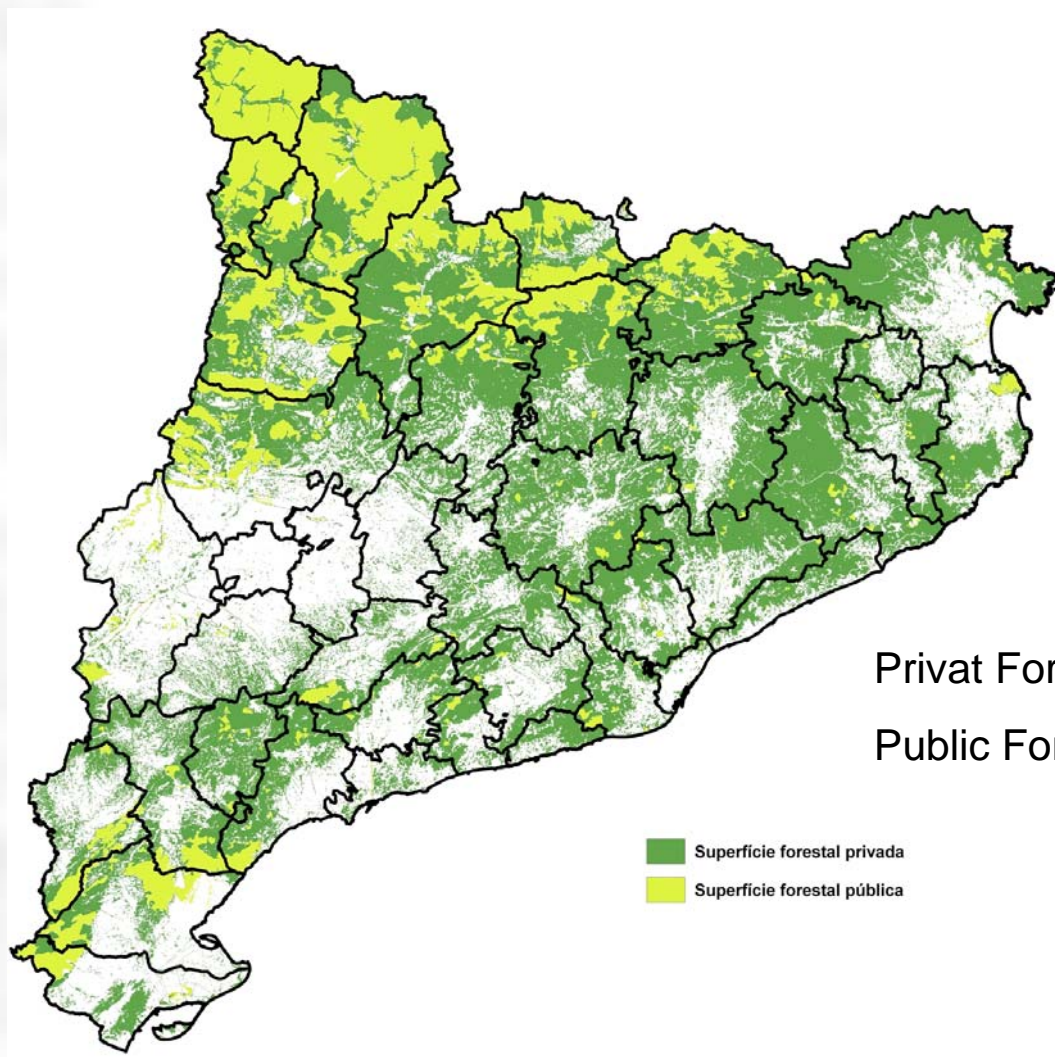
Generalitat de Catalunya
**Departament d'Agricultura, Ramaderia,
Pesca, Alimentació i Medi Natural**



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**Privat forest ownership and forest management plans.
Climate change challenges**

Private and Public Forest in Catalonia



CATALONIA:
3.210.000 ha

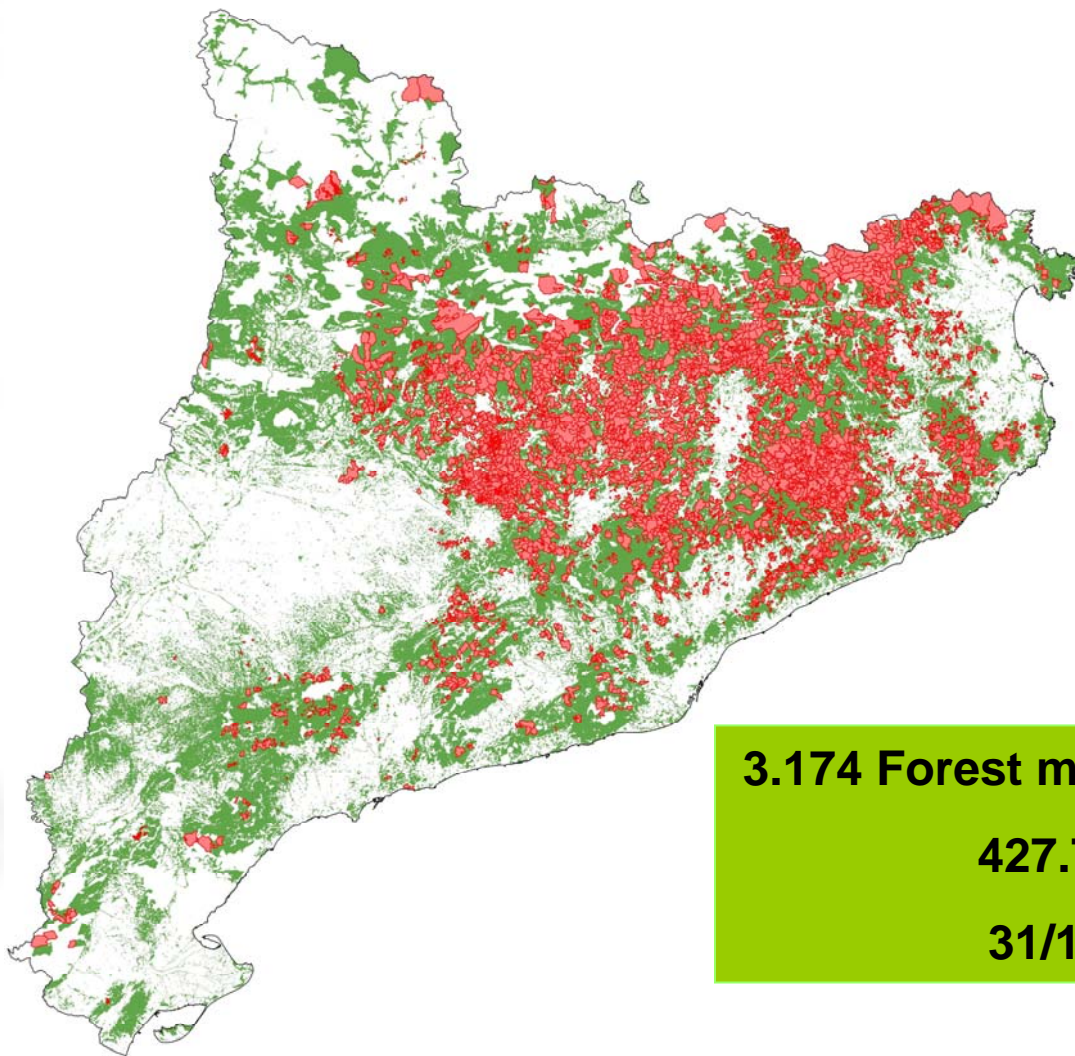
Forest land: 64,2 %

Privat Forest	1.512.758 ha	80 %
Public Forest	378.189 ha	20 %



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Private forest with a Technical Management Plan



3.174 Forest management Plans
427.779 Ha
31/12/2011



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What is the Forest Ownership Centre

The Forest Ownership Centre was set up in 1988 as a decentralised body under the Ministry of Agriculture, Stockbreeding and Fisheries. It is a body governed by public law with its own legal identity, attached to the Government of Catalonia's Department of the Environment and Housing. Its competences include regulating, managing and providing support for privately owned wooded land, which accounts for some 80% of all woodland in Catalonia. In 1999 the Catalan Parliament consolidates the entity with the law 7/1999 of Forest Ownership Centre

Structure of the Forest Ownership Centre (CPF)

The CPF comprises the following bodies:

Governing Council: the governing body of the CPF, on which owners of woodland and the government are represented.

Delegated Technical Commission: submits forest planning instruments and their amendments to the Governing Council for approval.

Managing Director: coordinates technical, legal, administrative and financial aspects. The Managing Director also acts as Secretary of the Governing Council.

Technical, administrative, legal and financial team: monitors the correct implementation of forest planning instruments.



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WHY A FOREST OWNERSHIP CENTRE

- ❑ **The creation of the CPF implement the principle of subsidiarity and consolidates the existence of participatory forest administration, to approximate the true stakeholders and sectors involved in forestry policy, which must be based on coordination, effectiveness, efficiency and concentration, and must carry the collaboration between government and forest owners and producers.**
- ❑ **CPF allows forest owners to have a government agency that integrates very different competencies, with special incidence on private forests in Catalonia, allowing them to participate in the establishment of forest policies**



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Function of the CPF

- Encouraging sustainable forest management by means of forest planning instruments and advising on the practical application of specialised knowledge of forestry.
- Providing technical and financial support for the drawing up of Technical Forest Management and Improvement Plans (**PTGMF**) and Simple Forest Management Plans (**PSGF**). (**FOREST MANAGEMENT PLANS**)
- Calling for, processing and making final decisions on applications for subsidies for sustainable forest management, designing plans and projects for forestry work, supervising the recovery of areas affected by disasters, and taking out insurance policies for forest fires and civil liability.
- Encouraging the setting up of forestry associations.
- Promoting forestry practices and technology transfer in the sector.



What do we offer to forest owners?

- 1.- Advising owners, managers and wood dealers on the guidelines of the forest management plan (PTGMF and PSGF), its objectives, the limitations on certain procedures, such as thinnings or opening up access roads, calls for applications for subsidies, etc.
- 2.- Advise on tax and legal matters.
- 3.- Subsidies on sustainable forest management, set up forest owner association and natural disasters. Subsidies on forest fire insurance contracts.
- 4.- Technology and knowledge transfer through courses, conferences and seminars, technical, and management guidelines. It has just approved the second Plan for Innovation and Knowledge Transfer of CPF 2012-2017.
- 5.- CPF acts as PEFC-technical office in Catalonia as part of the International System of Forest Certification PEFC.
- 6.- As public entity with legal personality participation in projects financed by the European Union not accessible to other organs of the forest administration.
- 7.- Networking with forest ownership center in southern France, Aragon, Navarra, GEIE Forespir or ARCMED (Mediterranean forest owners association).

The rol of Planning forest management

- Planning forest management is needed for the protection of forests.
- In Catalonia, the responsibility to manage or not manage forest is the owners (80% of forestland).
- Planning management is a key tool because ensures the process of diagnosis and decision making (what to do, where to do it and how to do it).
- Climate change adds new restrictions to sustainable forest management: we must find new solutions, but far from invalidating the logic of planning strengthens.

Spanish
Policy
Instruments

Spanish Forest Law (2003)

Spanish Forest Strategy (1999)

Spanish Forest Plan (2002-2032)

Catalonian
Policy
Instruments

Catalonian Forest Law (1988)

+ sectoral regulations

Forest Policy General Plan (PGPF)

Forest Resources Management Plan
(PORF) x 7

Forestry Management guidelines
(ORGEST)

Forest management
instruments (IOF)



Sub-regional
Planning

Forestry
management
guidelines

Planification
at forest level

Level of
technical
description

-

+



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What are the ORGEST?

AIM: To develop guidelines for forest management adapted to our conditions, which contemplate the complexity and multi-functionality of forests, taking into account the main disturbances (fires, drought) in the current context of global change

FUNCTION: Provide technical content of Forest Planning Instruments (PTGMF, and PSGF POF), trying to harmonize forest-wide planning and planning tools at higher levels.



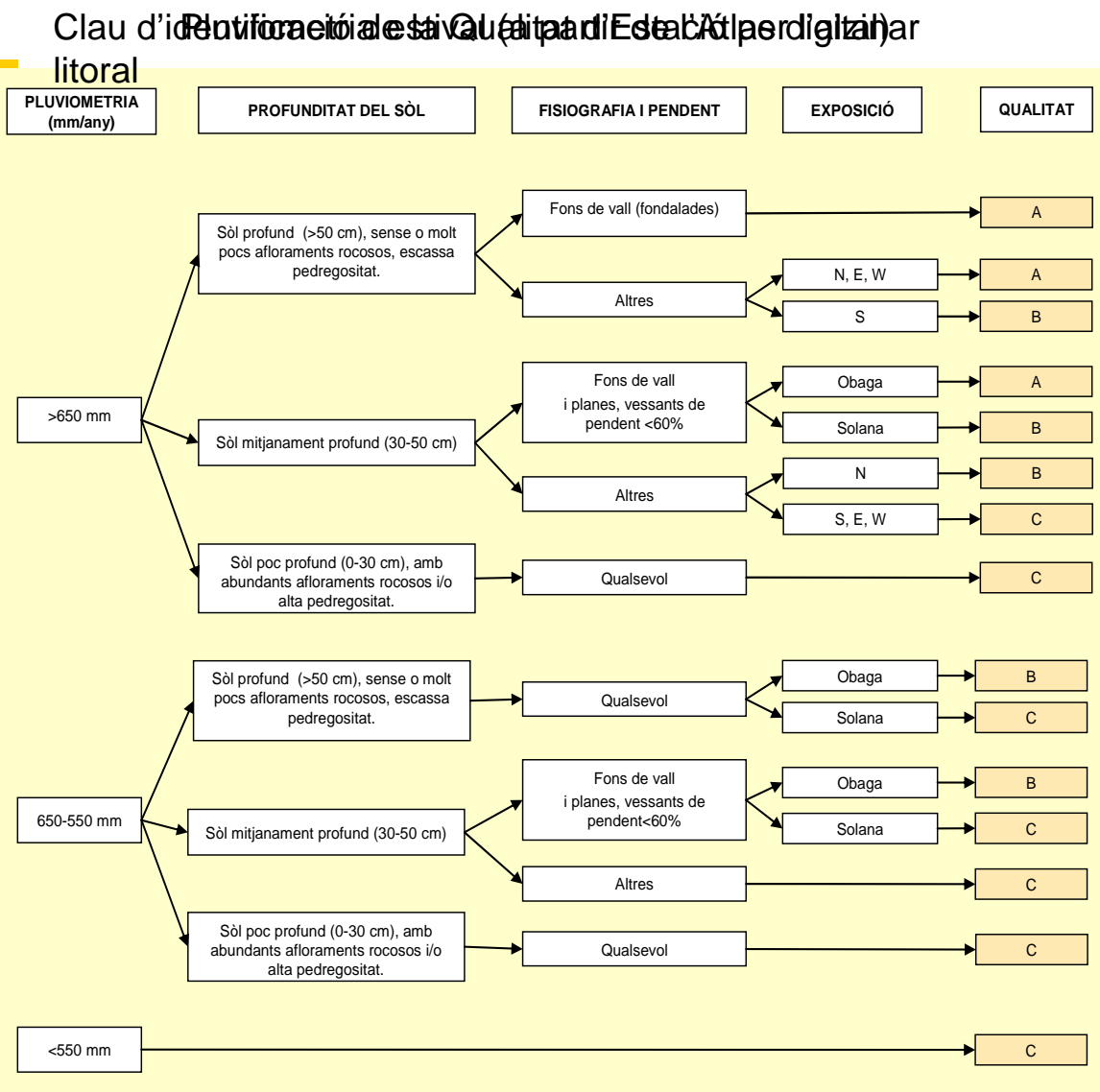
Orgest adapted to climate change

1) Caracterització del rodal

TIPOLOGIA FORESTAL

- Formació forestal
- Qualitat d'estació en base a variables ecològiques

Profunditat del sòl



Orgest adapted to climate change

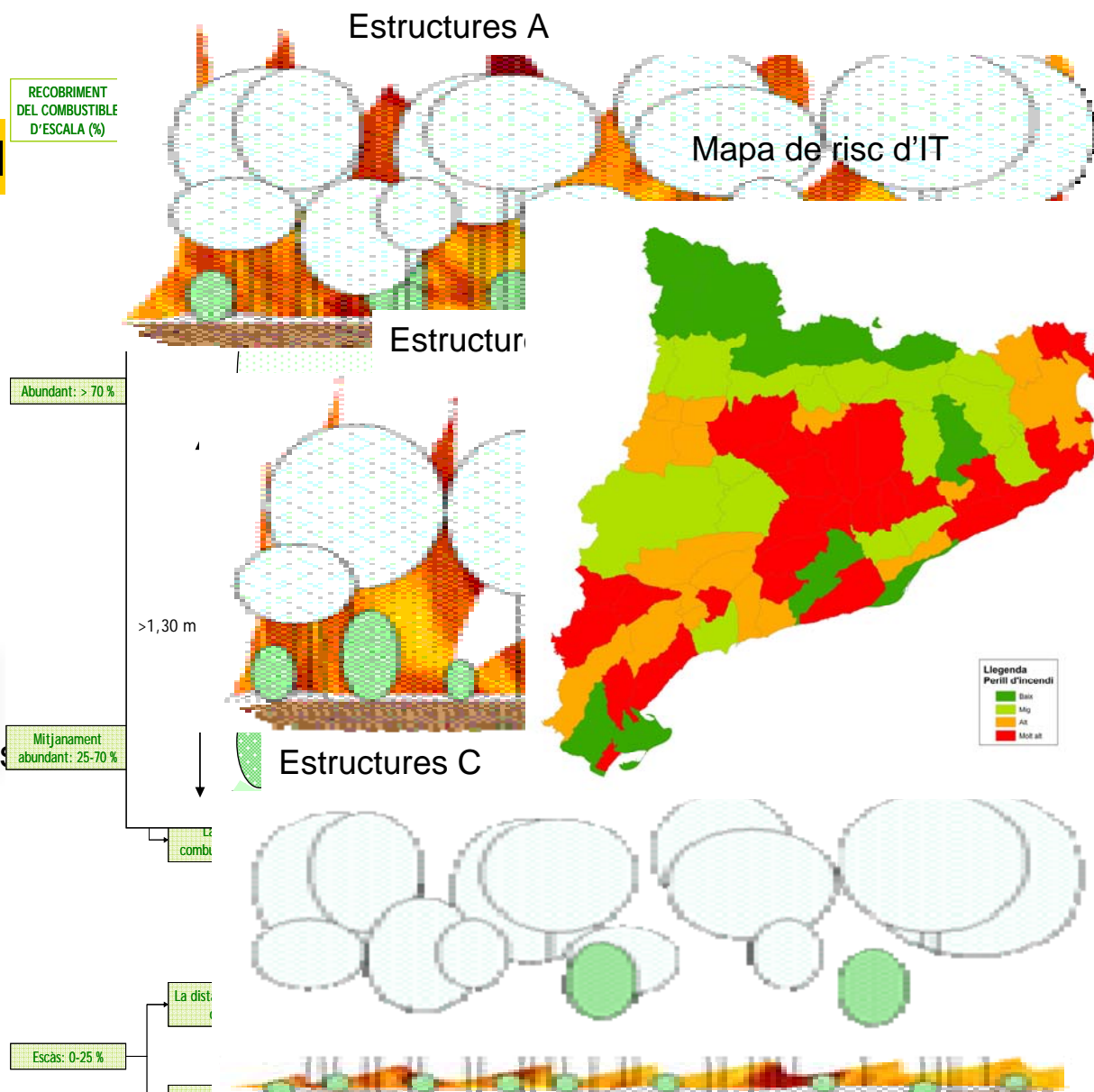
1) Caracterització del rodal

TIPOLOGIA FORESTAL

- Formació forestal
- Qualitat d'estació en base a variables ecològiques

• PERILL D'INCENDI

- Mapa de risc d'incendis tipus
- Claus d'Identificació de la vulnerabilitat al foc de copes



Orgest adapted to climate change

2) Models silvícoles

<i>Formació</i>	<i>Opció de gestió</i>	<i>Codi</i>
Pi blanc i pinassa Ph_Pn	Manteniment de la massa mixta	PHPN1
	Avançar en la dominància de pi blanc	PHPN2
	Augmentar la proporció de pinassa	PHPN3
	Avançar cap a massa mixta de pins i quercines	PHPN4
Pi blanc i pi pinyer Ph_Ppa	Manteniment de la massa mixta	PHPP1
	Avançar en la dominància de pi blanc	PHPP2
	Augmentar la proporció de pi pinyer	PHPP3
	Avançar cap a massa mixta de pins i quercines	PHPP4
Pi blanc i pi roig Ph_Ps	Manteniment de la massa mixta	PHPS1
	Avançar en la dominància de pi blanc	PHPS2
	Avançar cap a massa mixta de pins i quercines	PHPS3
Pi blanc i carrasca (o roure de fulla petita) PhCON_Qib PhLIT_Qib	Manteniment de la massa mixta	PHQIB1
	Augmentar la proporció de carrasca (o roure de fulla petita)	PHQIB2
Pi blanc i alzina Pi blanc litoral i altres roures* Ph_Qii PhLIT_Qu	Manteniment de la massa mixta	PHQII1
	Augmentar la proporció d'alzina (o altres roures*)	PHQII2

Opportunities for Adaptation to Climate Change in ORGEST

- 1. Easy determination of the quality of the stand:
Adaptative assessment tool that allow to adjust management model to changes in rainfall average or summer rainfall.**
- 2. Management models that integrate the fire risk and vulnerability to crown fire**
- 3. Management models for mixed stands:
increased resilience / favoring species better adapted**



Opportunities for Adaptation to Climate Change in ORGEST. CONCLUSIONS

- **Defining a site quality that takes into consideration soil water availability**
- **Allow adapting the management model to changes in rainfall**
- **To determine the vulnerability of a stand to crown fires**
- **Implement management models that reduce the vulnerability of a stand to crown fires**
- **Implement management models for mixed stands (greater resilience)**
- **Implement knowledge of adaptive capacity of different species**



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THANKS YOU!



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