

# FOREST SCIENCE AND TECHNOLOGY CENTRE OF CATALONIA

CTFC

1<sup>st</sup> Session 18/02



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**CTFC**

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**01**

# **Introduction**

## 01 Introduction

# FOREST SCIENCE AND TECHNOLOGY CENTRE OF CATALONIA



# FOREST SCIENCE AND TECHNOLOGY CENTRE OF CATALONIA

**The Forest Science and Technology Centre of Catalonia (CTFC),** based in **Solsona (Lleida)**, was initially founded by the County Council of Solsonès and the University of Lleida. Later on, the Provincial Council of Lleida, the Catalan Foundation for Research and Innovation, the Government of Catalonia, the Autonomus University of Barcelona, the Barcelona Provincial Council and the City Council of Solsona were incorporated.

The CTFC is a public consortium attached to the administration of the Government of Catalonia and it depends on the department responsible for forests. It forms part of the Catalan research centres (CERCA) and is a TECNIO agent accredited by the Government of Catalonia (public technology developer).



# MISSION

**The mission of CTFC** is to contribute to the modernization and competitiveness of forest sector, to promote rural development and to foster the sustainable management of the environment through excellence in research and transfer of knowledge and technology to society, with the final aim of becoming a reference center at the national and international level.



# 01 Introduction

## CHART

The Board is the highest government body of the Consortium and it is composed by the following members:

A) The counsellor of the Department in charge of forest issues of the Government of Catalonia, who will be the President.

B) Two representatives of the County Council of Solsonès.

C) Two representatives of the University of Lleida.

D) Two representatives of the County Council of Lleida.

E) Two representatives of the Catalan Foundation for Research and Innovation.

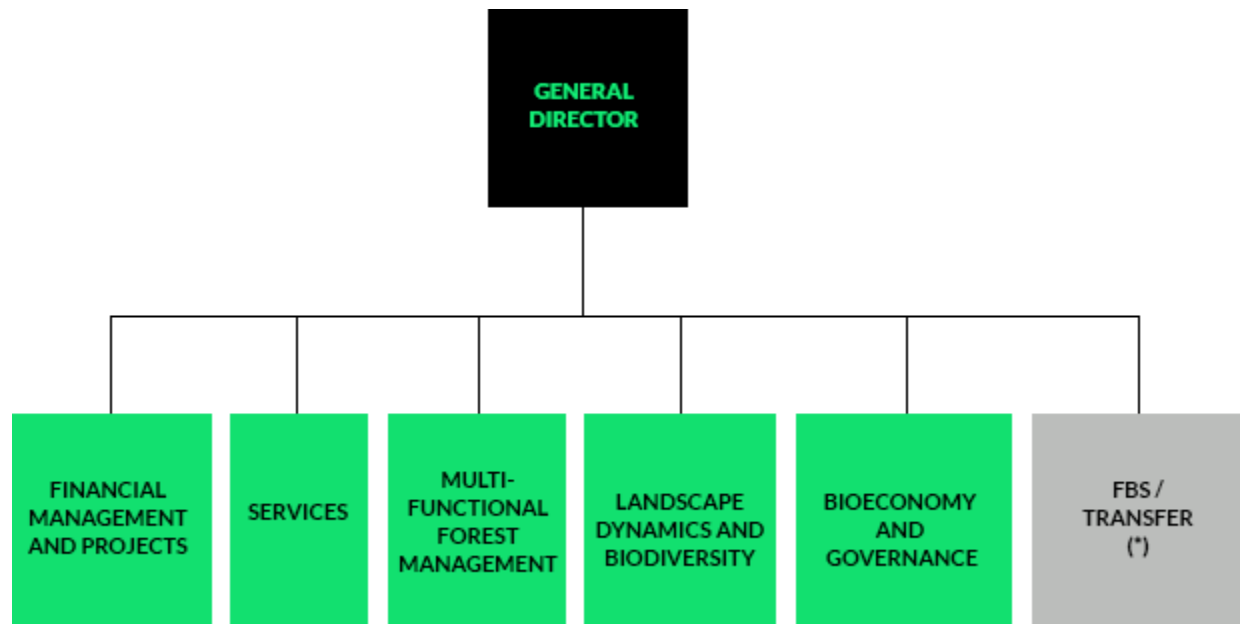
F) Two representatives of the Government of Catalonia.

G) Two representatives of the Autonomous University of Barcelona.

H) Two representatives of the County Council of Barcelona.

I) Two representatives of the City Council of Solsona.

J) The number of representatives according to the accession agreement of each institution or entity forming part of the consortium in the future.



The Board appoints for the **general director**, who governs the day to day running of the institution:



Antoni Trasobares.

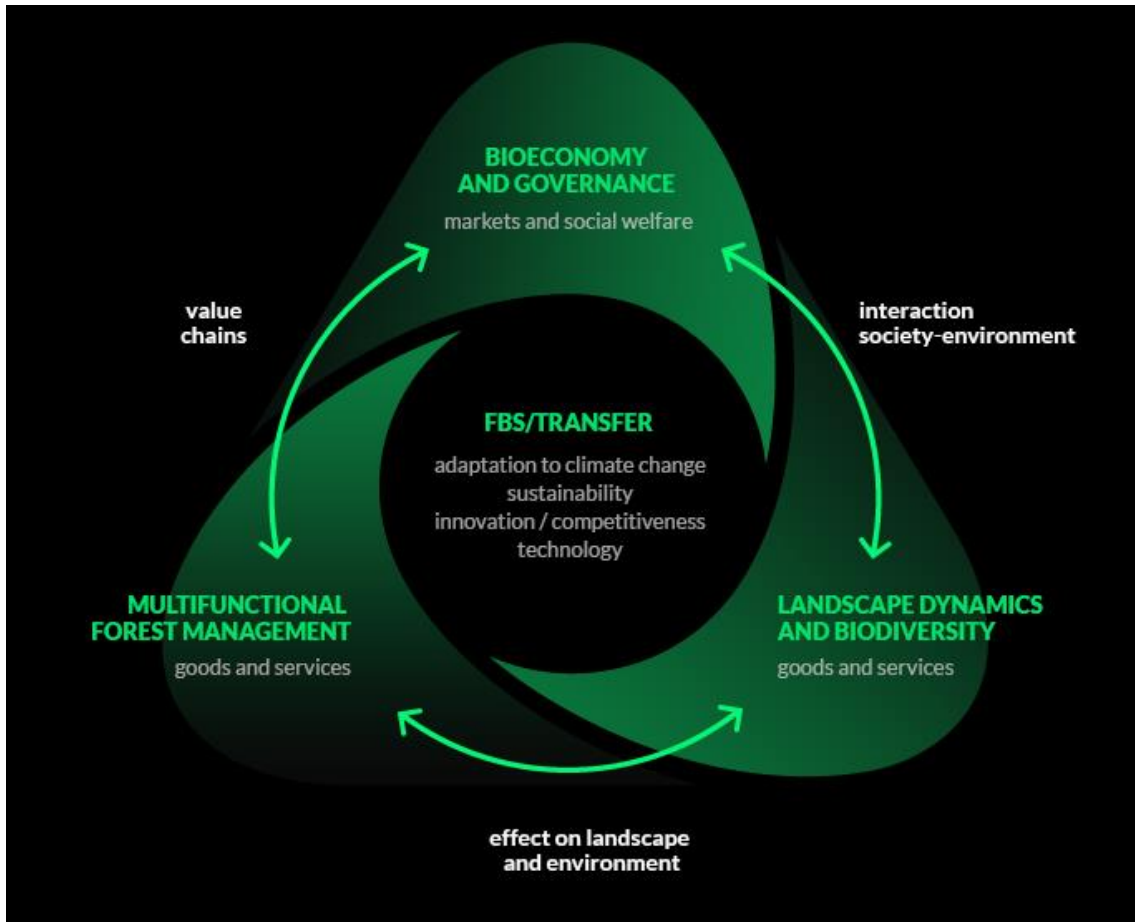
**02**

# **Internal Organisation**



## 02 Internal Organisation

**We contribute to the modernization and competitiveness of the forest sector, the rural development and to the sustainable management of the environment.**



To achieve this, we are organized on three programs: **multifunctional forest management, landscape dynamics and biodiversity, and governance and bioeconomy.**

The research carried out within these programs is focused on key aspects such as environmental function equilibrium, climate change adaptation or competitiveness along value chains. Part of the activity carried out in the programs is transferred to society by the company FBS.

**03**

# **Multifunctional Forest Management**

# Multifunctional Forest Management

## R+D lines and Transfer.

- Forest dynamics and global change.
- Adaptive silviculture and forest management models.
- Multifunctional forest planning and modelling.
- Forests and water cycles.
- Large fire prevention, fire ecology and forest restoration.
- Forest diseases and invasive pathogens.
- Forest soils, organic fertilisers and carbon sinks.
- Forest management and carbon sequestration.
- Forest plantations, agroforestry and silvopastoral systems.



**04**

# **Landscape Dynamics and Biodiversity**

# Landscape Dynamics and Biodiversity

## R+D lines and Transfer.

- Diagnosis of natural environment dynamics.
- Risk and impact analysis of global change.
- Model ecosystem services and the ways in which they interact.
- Fluvial dynamics: interactions between water and sediment at different spatial and temporal scales.
- Development of management measures and landscape/regional adaptation.
- Conservation planning.
- Methods and tools for multi-objective forest planning at a landscape/regional level.
- Decision-making support tools in a context of global change.



**05**

# **Bioeconomy and Governance**



# Bioeconomy and Governance

## R+D lines and Transfer.

- Bioenergy and agroforest bioproducts
- Bioenergy and agroforest bioproducts
- Forest economy
- Ecosystemic services and payment for environmental services
- Ecosystemic services and payment for environmental services
- Forest diseases and pests and their impact on value chains
- Environment and Human Health. EH2Lab
- Biocities



**06**

# **Forest Bioengineering Solutions (FBS)**

# Forest Bioengineering Solutions (FBS)

## **Market-oriented development of Novel Products, Services and Methodologies.**

Forest Bioengineering Solutions SA was founded in 2014 as a CTFC spin-off, starting its commercial activity in January 2015. FBS is currently working in the revalorisation of the CTFC research outputs, turning them into market-oriented products and services.

The objective of FBS is the revalorisation and transference of the knowledge generated in the CTFC to the market through the creation of novel high quality products and/or services linked to scientific expertise. FBS facilitates the application of knowledge working closely to the private sector.



Organised in 5 main areas:

- Laboratory services, inspection and diagnosis.
- Advanced technology systems in the field of the wood sector.
- New technologies linked to the forestry sector, software, apps.
- Expertise advise linked to the scientific and technical activity from the CTFC.
- Development of novel products / services / market-oriented methodologies.

**07**

# **The Wood Catalan Institute (INCAFUST)**

# The Wood Catalan Institute (INCAFUST)

**Market-oriented development of Novel Products, Services and Methodologies.**

**The Wood Catalan Institute (INCAFUST)** aims at promoting the development and recognition of the wood as a high interest material and contributes to the improvement of the competitiveness, the fostering of innovation and the increment of the wood sector productivity. INCAFUST, as a brand, is part of the CTFC corporative group.

catalan institute of wood  
**incafust**  
institut català de la fusta



**08**

**2019-2025 Strategy**



## 08 Strategy

**The vision of the CTFC is to be recognized as a centre of reference at local, national and international levels in the fields of forest, rural development, and the sustainable management of the environment.**

CTFC adopts the general research strategy proposed by EFI and uses its general framework to develop its specificity, mainly in the context of Mediterranean forests with a special focus on Catalonia and Southern Europe.



An ambitious  
**European forest  
research and  
innovation area**



**Science-informed  
policies** to address  
societal challenges  
and opportunities



**Awareness**  
in society of the  
importance of  
forests



### STRATEGIC GOALS:

- **Ambitious European forest research and innovation area.**

CTFC Contributes to European and international initiatives.

- **Science-informed policies to address societal challenges and opportunities.**

CTFC Contributes to the body of knowledge supporting policies in the forest and sustainability research agenda.

- **Awareness in society of the importance of forests.**

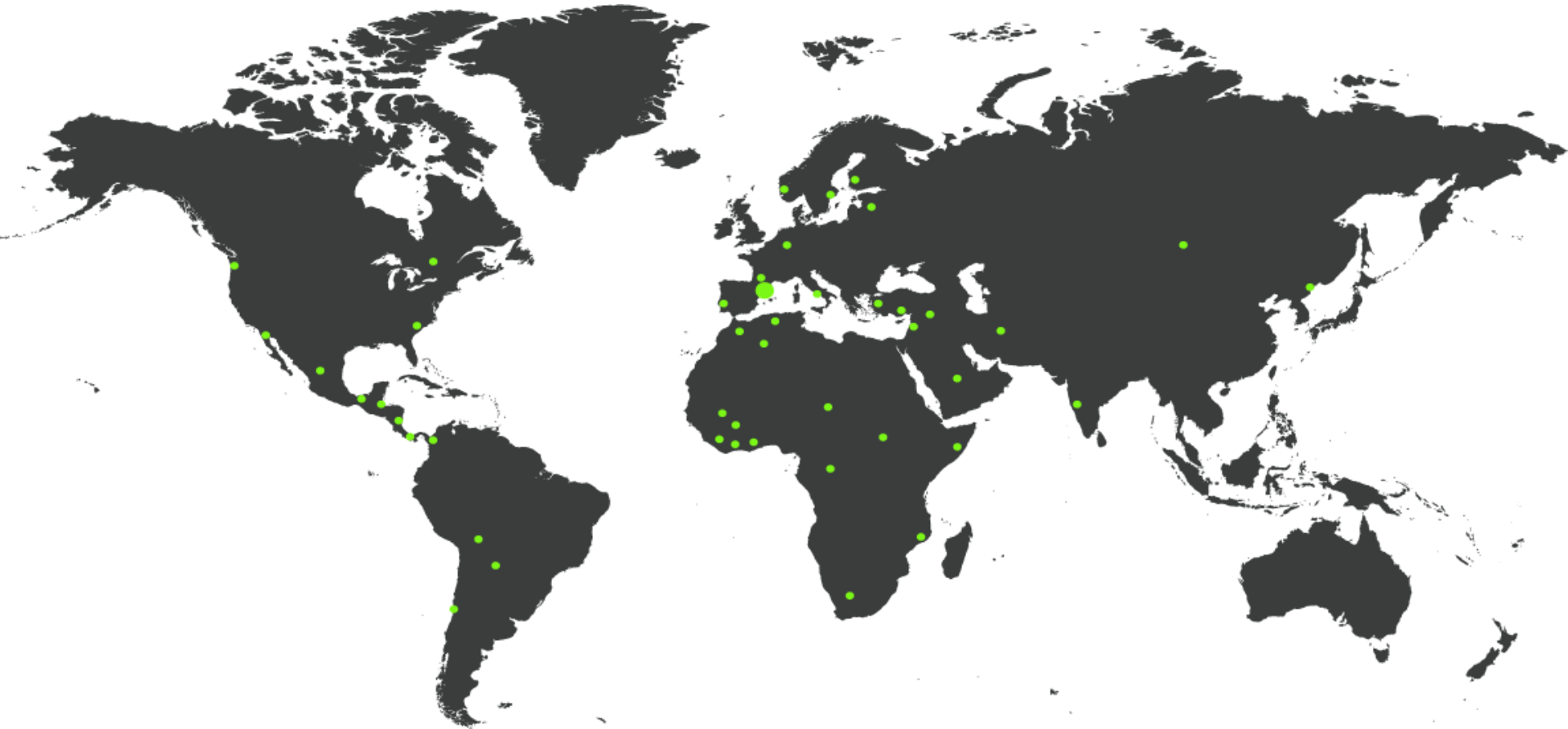
CTFC promotes and favours actions and initiatives that facilitate the involvement of society in decisions affecting the future of forest systems.

**09**

**CTFC in numbers**

## CTFC in the world

We have participated in more tan 200 international projects.



# CTFC in the world



Over 100 Professionals



46% women.  
40% PhD.



1.227

## R&D&I Projects

local, national and international (84 actives in 2018)



775

## SCI Publications

(89 in 2018)



1.230

## Agreements

signed around the world



550

## Articles

about the work done



515

## Conferences

and others formative actions



275

## Published books

in which the CTFC participated



47

## PhD thesis

defences (6 in 2018)



7

## Joint Research Units

(2 JRU, 5 framework agreements)



2

## Research groups (SGR)

accredited by GENCAT



>150 client companies

1 spin off (FBS)

1 Patent

1 Utility model

6 Registered trademarks



# Thanks



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