

**Energy, Forests, Climate Change
developing a networking approach in Catalonia
10/12/2019**

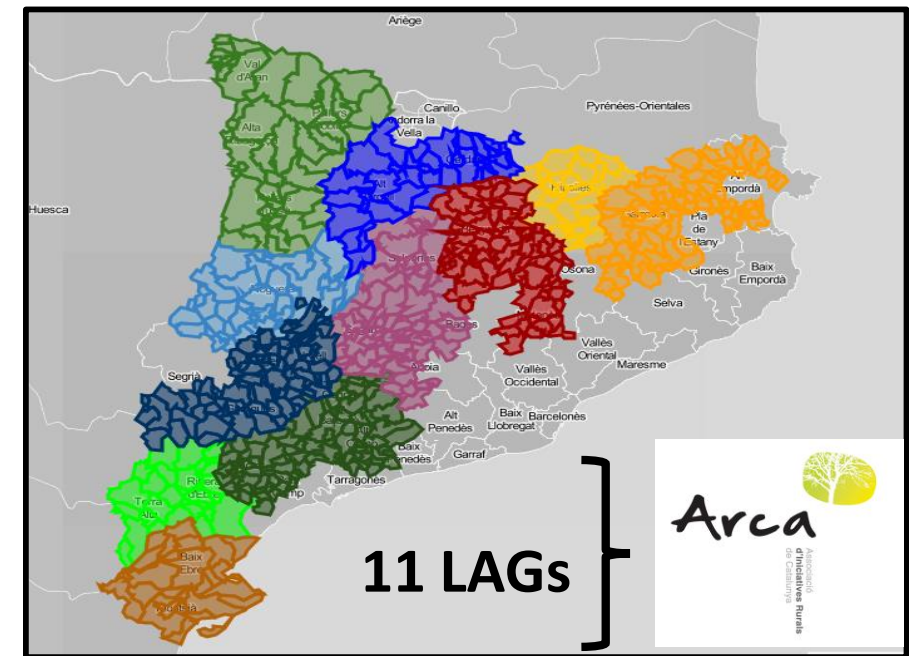
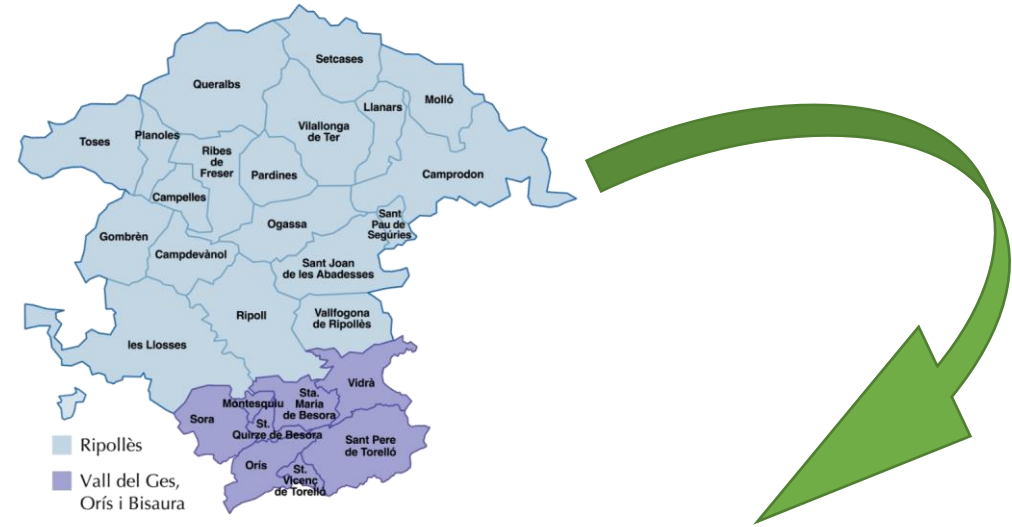


MOTIVATION AND GOALS



Improve and promote the sustainability of Catalan rural areas

- Promotion of energy and efficiency savings linked to a **change in energy model**.
- Promotion of **renewable energies** based on endogenous sources.
- Awareness to rural areas about the need to promote actions to mitigate and adapt to **climate change**
- Promotion of **sustainable forest management**.





CLIMATE CHANGE

1. ENERGY TRANSITION

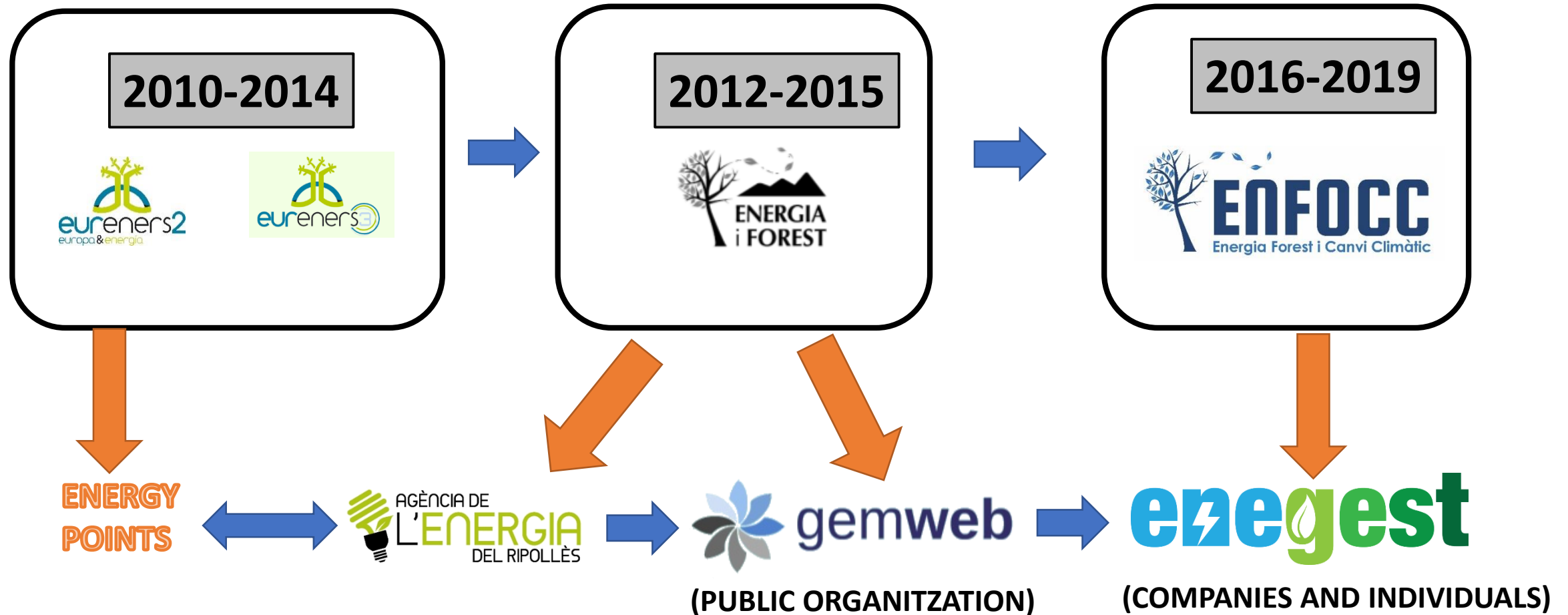
2. FOREST MANAGEMENT AND BIOMASS

ACTIONS

1. ENERGY TRANSITION



1.1. ENERGY ACCOUNTING: EVOLUTION






1.1. ENERGY ACCOUNTING

EMPLOYMENT:

- 1 ENERGY AGENCY in Ripollès region: 2 technicians employed
- 1 ENERGY TRANSITION WORK TABLE (Energy Agency in progress) in Lleida region: 1-2 technicians employed in progress
- 1 ENERGY AGENCY IN PROGRESS in Tarragona region: 1-2 technicians employed in progress
- COPATE, Energy Agency in Terres de l'Ebre: 1 technician

MOTIVATION:

- 
- ECONOMIC SAVINGS
 - ENERGY EFFICIENCY
 - LEGISLATION
 - ENVIRONMENTAL AWARENESS



1.1. ENERGY MANAGEMENT TOOL “ENEGEST”

enegest

<https://enegest.energiaibosc.com>

- **Free and online** energy management tool for companies and individuals
- Integration of **all energy consumption into a single platform**: Electricity, Gas, Butane, GLP, Diesel Oil, Biomass
- Main Functions:
 - Energy accounting ↔ Economic Savings
 - Calculation of consumption and cost ratios
 - Carbon footprint calculation
 - **Solar Calculator (viability and amortisation)**

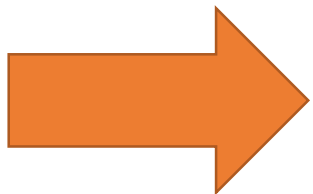


1.1. ENERGY MANAGEMENT TOOL “ENEGEST”

enegest

<https://enegest.energiaibosc.com>

- **Technician support:** which transmits knowledge and justifies the reason and the need for savings
- In 2018: 97 companies analyzed
78 reports delivered to the companies with real savings or improvements
- Nowadays: 620 registered users
- Active users for annuities: 188 users (2017); 184 users (2018); 122 users (2019)



Sign up into the tool, improve score during Leader Subsidy selection process



1.2. ENERGY TRANSITION IN THE 21ST CENTURY (TE21)

<http://transicio.energiaibosc.com/>

TE21
Transició energètica
a municipis i comarques

- Energy Transition: it mainly represents a change in the production of energy, replacing fossil fuels with renewable and local sources
- Ramon Sans Rovira, Industrial Engineer, author of the **TE21 model of calculation**
- SENSIBILITATION AND COMMUNICATION TOOLS:
 - **Reports:** The transitional reports of the different municipalities and provinces of Catalonia are calculated and presented on the web
 - **Communication Flashes:** edited and communicated by social networks
- We are working on an interactive website, with different languages, where data entry is open to everyone. It will give more accurate and realistic information

In collaboration with:

Ramon Sans Rovira, Industrial Engineer
Agència de Desenvolupament del Ripollès





2.3. CHRONOLOGY

2010: The strategic plan of the biomass in the Ripolles area shows a demand. A public entity (**CEIN**) starts to work on **public forest and public boilers**.

2012: As in the rural areas there were boilers it is decided to take part in the **Clima Program** (Initiative promoted by Ministry of Agriculture and Fisheries, Food and Environment) in order to reduce CO₂ emissions from Spain and comply with international agreements on climate change. BM-Rural 2013-2016.

2015: In collaboration with Biomass Cluster it is decided to expand the Clima Program throughout Catalonia. BM-Cat 2016-2019.

A private company starts to supply biomass to private boilers. Today it is supplying biomass for public and private boilers (1-2 workers).

2017-2019: Members of an European Cooperation Group (led by Cévennes Lag) with the purpose to **add value to the pasturage in forest areas** (proximity products, fire prevention), repopulate rural areas and mitigate climate change.

2010 – 2019: NEW specialized plumbers from the rural areas (new job opportunities)



2.3. CLIMA PROGRAM

- The main **objective** of the BM-CAT project is to contribute to the **change** from an energy model based on fossil fuels to one **based on the biomass, source of renewable, local and clean energy.**
- **We need to promote the use of local biomass (best quality) through incentives that are not included in the CLIMA Program.**

	Nº BOILERS	Nº Tones CO2 Compensated	€ Equivalents
BM-CAT 2016-2019	29,00	4.489,00	43.543,30
BM-Rural 2013-2016	46,00	10.965,59	82.037,02
TOTALS	75,00	15.454,59	125.580'32



THANK YOU!!

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Associació
DESENVOLUPAMENT
RURAL INTEGRAL
ZONA NORD ORIENTAL DE CATALUNYA



Associació
LEADER
Ripollès Ges Bisaura



LEADER
del Camp



CONSORCI GAL
Alt Urgell - Cerdanya



Cis
Consorci Intercomarcal d'iniciatives socioeconòmiques



LEADER
CAT CENTRAL



Consorci per al Desenvolupament
del Baix Ebre i Montsià



Associació Leader
de Ponent



LEADER
Consorci GAL Noguera / Segrià Nord



CONSORCI
LEADER
PIRINEU
OCCIDENTAL



Associació
leader
ILLA DE MENORCA



TEDER
CENTRO DE DESARROLLO RURAL
DE TIERRA ESTELLA



GAL
CÉVENNES



Rd
Ripollès Desenvolupament



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



Fons Europeu Agrícola de
Desenvolupament Rural:
Europa inverteix en les zones rurals



Diputació
Barcelona



Diputació de Girona



Arca
Asociación de Municipios Rurales
de Cataluña