

Fostering local climate adaptation plans and actions

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1. Introducing the Barcelona Provincial Council
2. Climate adaptation within the *Covenant of Mayors for Climate and Energy*
3. Direct support for municipalities
4. Innovative approaches for scaling up adaptation: Life eCOadapt50
5. Other good practices from Catalonia

1. Introducing the Barcelona Provincial Council

- Local public administration for the province of Barcelona (Spain)
- 311 municipalities*
- 5,9 million people (73% of the population of Catalonia)

*Barcelona city has a differentiated treatment

- *Second level* local authority
- “Concertation”, not hierarchical relationship
- Provides support to municipalities in the development of their duties



1. Introducing the Barcelona Provincial Council

DEPARTMENT OF CLIMATE ACTION AND ENERGY TRANSITION

Environment Services
Management Office

CLIMATE CHANGE AND SUSTAINABILITY



Climate change
adaptation

Green infrastructure

Energy efficiency and
renewable energy

Water and waste
management

Sustainable mobility

ENVIRONMENTAL EDUCATION AND PROMOTION



Environmental
training for local
practitioners

Environmental
education at schools

Awareness-raising
exhibitions and
campaigns

ENVIRONMENTAL ASSESSMENT AND MANAGEMENT



Air pollution

Noise

Water quality

Environmental Lab

1. Introducing the Barcelona Provincial Council

DIRECT SUPPORT TO LOCAL AUTHORITIES

Economic Support

Catalogue of
services

Coordination
tables

Sectorial
Programmes

Technical Support

Catalogue of
services

Guidance, criteria

Studies and drafting
of plans

Capacity building

Material Support

Resources (electric
bikes, exhibitions)

Equipment loans or
transfer (e.g. noise
or electric metres)

Communication
materials

INNOVATION AND COLLABORATIVE MANAGEMENT

*Benchmarking Quality Circles
(Círculos de comparación
intermunicipal)*

*Network of Cities and Towns
Towards Sustainability*

Participation in European projects

2. Climate adaptation within the CoM

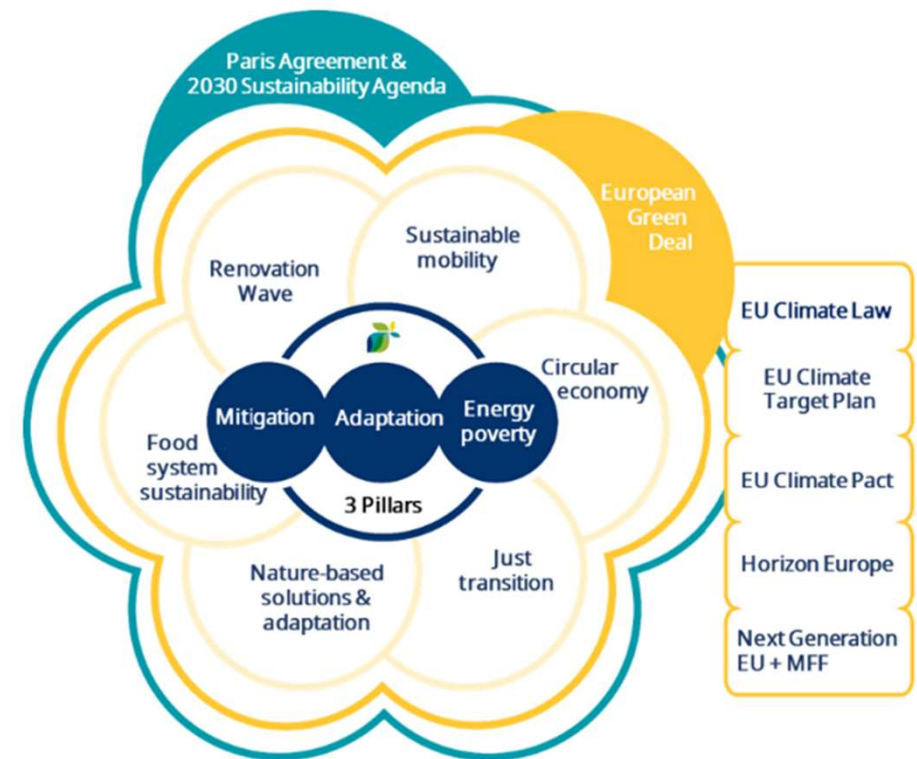
The Covenant of Mayors for Climate and Energy (CoM) is an EU initiative for local governments that voluntarily commit to implementing EU climate and energy objectives.



Created in 2008, first focused on “sustainable energy”;
in 2015 CoM was reframed to deal with climate adaptation

Currently, the initiative is structured around three pillars::

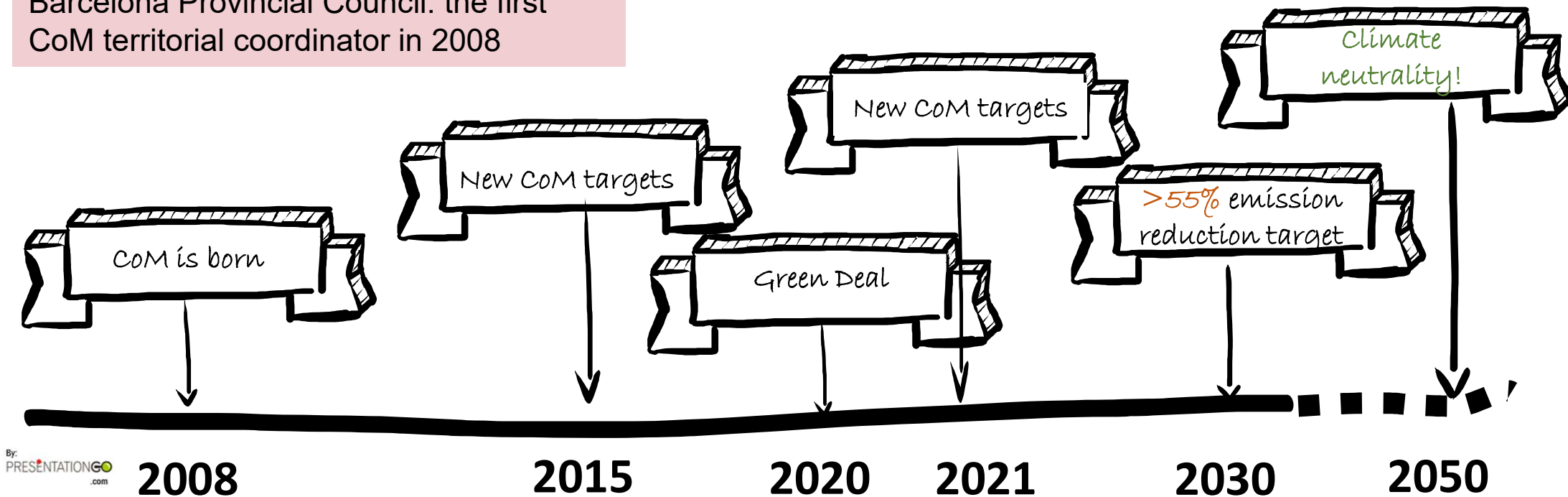
- ✓ MITIGATION
- ✓ **ADAPTATION**
- ✓ ENERGY POVERTY



<https://eu-mayors.ec.europa.eu/en/about>

2. Climate adaptation within the CoM

Barcelona Provincial Council: the first
CoM territorial coordinator in 2008



By:
PRESENTATIONGO
.com

Reduction of green house gas
(GHG) emissions by more than
20% by 2020

- Reduction of GHG emissions by more than 40% by 2030
- **Adaptation to climate change**
- Energy poverty reduction

- Emission reduction ambition equivalent to the EU and National plans (>55% by 2030)
- **Adaptation to climate change**
- Fair Climate and energy transition

<https://gisportal.diba.cat/sitac/visor/>

2. Climate adaptation within the CoM

Local authorities can ask for support to:

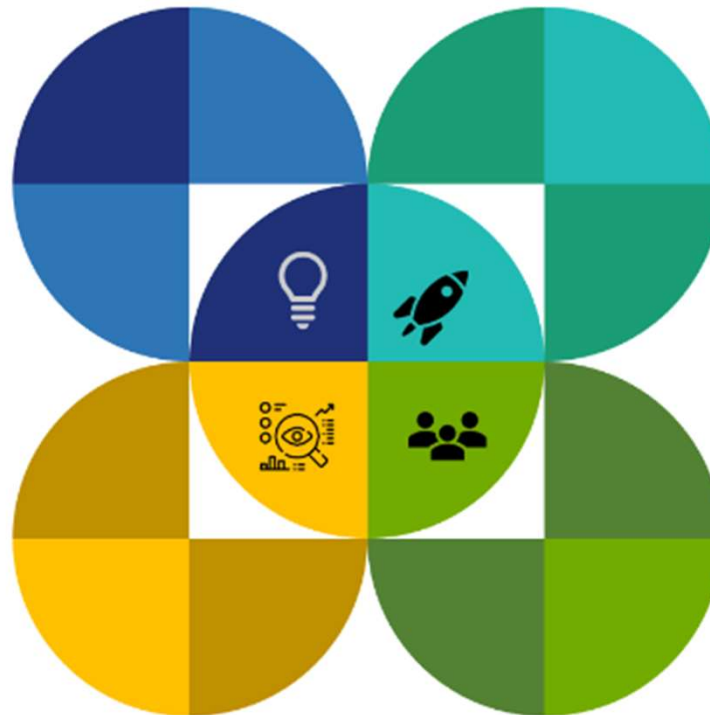
PLANNING

Drafting of the
**Sustainable Energy and Climate
Action Plans (SECAP):**

- Energy transition plans
- Adaptation plans

MONITORING

Monitoring reports
Communications with the CoM



IMPLEMENTATION

Drafting of executive projects
Direct funding
Support to get EU funding

COMMUNICATION AND CAPACITY BUILDING

Communication materials
Training courses for Local Authorities

<https://www.diba.cat/ca/web/alcaldespelclima/suport-integral>

2. Climate adaptation within the CoM

The SECAP-Sustainable Energy and Climate Action Plan (municipality) is complemented by “**Regional Adaptation Plan**” (county level).

CONTENT:

- Current climate and projections
- Climate vulnerability assessment → Excel-based tool for simplified vulnerability assessment (ASVIC)
- Action plan
- Governance
 - ✓ Heatwaves
 - ✓ Water availability and droughts
 - ✓ Forest impacts
 - ✓ Biodiversity and landscape values
 - ✓ Flooding risk
 - ✓ Storms and extreme weather events
 - ✓ Sea-level rise and coastal impacts
- Monitoring

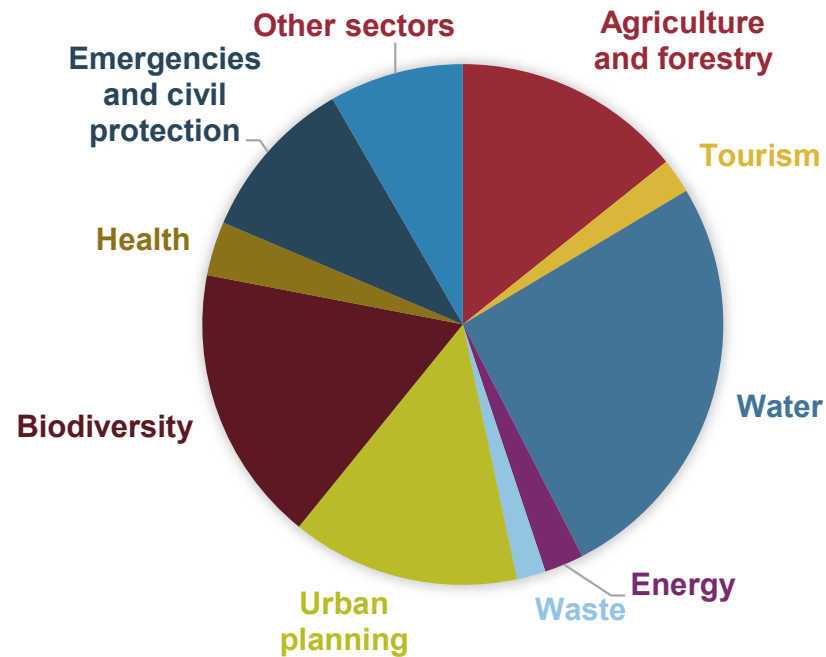
2. Climate adaptation within the CoM



Adaptation actions in the Regional adaptation plans

11 county adaptation plans completed
4,306 actions
238.2 M€

Distribution of
Actions by Sector



3. Direct support to municipalities

Direct support to local authorities for climate change adaptation is given through the ordinary schemes for technical and economic support (“catalogue of services”), including:

- Technical support
 - Urban naturalisation projects
 - Improvement of green infrastructure
 - Water supply
 - Energy transition
- Direct economic support to municipalities for climate-related projects (0.5 M€ /year)



3. Direct support to municipalities

ADAPTACLIMA 2030

- Support to local authorities for investments aimed for adaptation to climate change
- Total budget: 16M€ (2024-2025)
- Funds are pre-allocated to each municipality based on population size, ranging from €20,000 to €75,000 per municipality.
- Eligible projects should provide both environmental and health/social benefits.



3. Direct support to municipalities

Four types of projects are eligible:



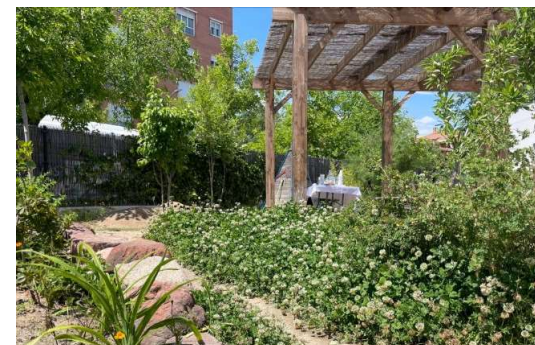
Creating Shadows



Outdoor Cooling
Shelters



adaptaclima
2030



NbS (Nature-
based Solutions)



Resource savings
and efficiency



3. Direct support to municipalities

WATER

Sectoral programme for the improvement of the water supply

The aim is to reduce water leaks and improve the efficiency of the water infrastructure network

Budget: 100 M€ (2023-2027)

Model ordinance for water saving and efficient use

The aim is to help local authorities in the regulation of water supply issues.

Topics covered include:

- Mandatory water efficiency systems
- Reuse of rainwater and non-conventional water sources
- Design of low-water-consumption gardens
- Additional obligations for large-scale water consumers



In collaboration with
the Network of towns and
cities for sustainability

3. Direct support to municipalities

ENERGY POVERTY



Energy Audits and Assessment Programme

The aim is to improve the energy efficiency of homes in “energy poverty”, reduce the costs of basic supplies (electricity, water and gas) and improve the quality of life of beneficiaries.

It is provided by the areas dealing with Social Action, Environmental Management and Housing (in coordination with the local authorities).

This includes:

- Conducting an energy audit
- Installation of low-cost measures to improve energy efficiency
- Personalized in-home advice on efficient consumption patterns
- Group training sessions on energy efficiency
- Tariff advice to customize contracts based on the actual households needs
- Identification of broader interventions aimed at reducing thermal demand.



<https://www.diba.cat/ca/web/benestar/auditories>

4. Innovative approaches for scaling up adaptation

Active participation in several European projects on energy efficiency, sustainable mobility and climate change adaptation.





Co-creating strategic action to adapt territories and the local economy to climate change

Life_eCO
adapt50



Co-funded by the
European Union

Life SIP eCOadapt50



2023-2030



19 TERRITORIES
(60% OF THE AREA OF CATALONIA)



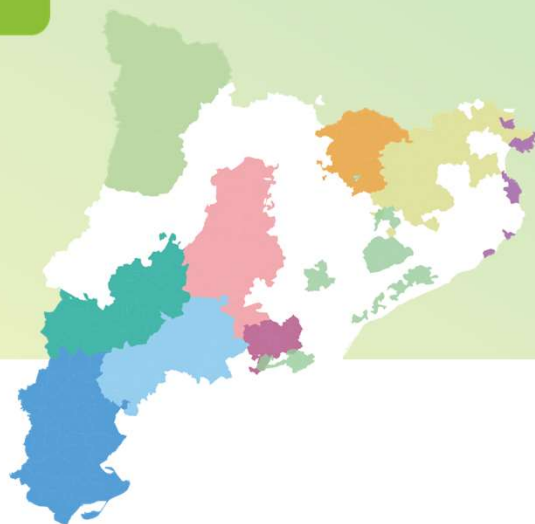
> 906.000 INHABITANTS (12% OF THE POPULATION)



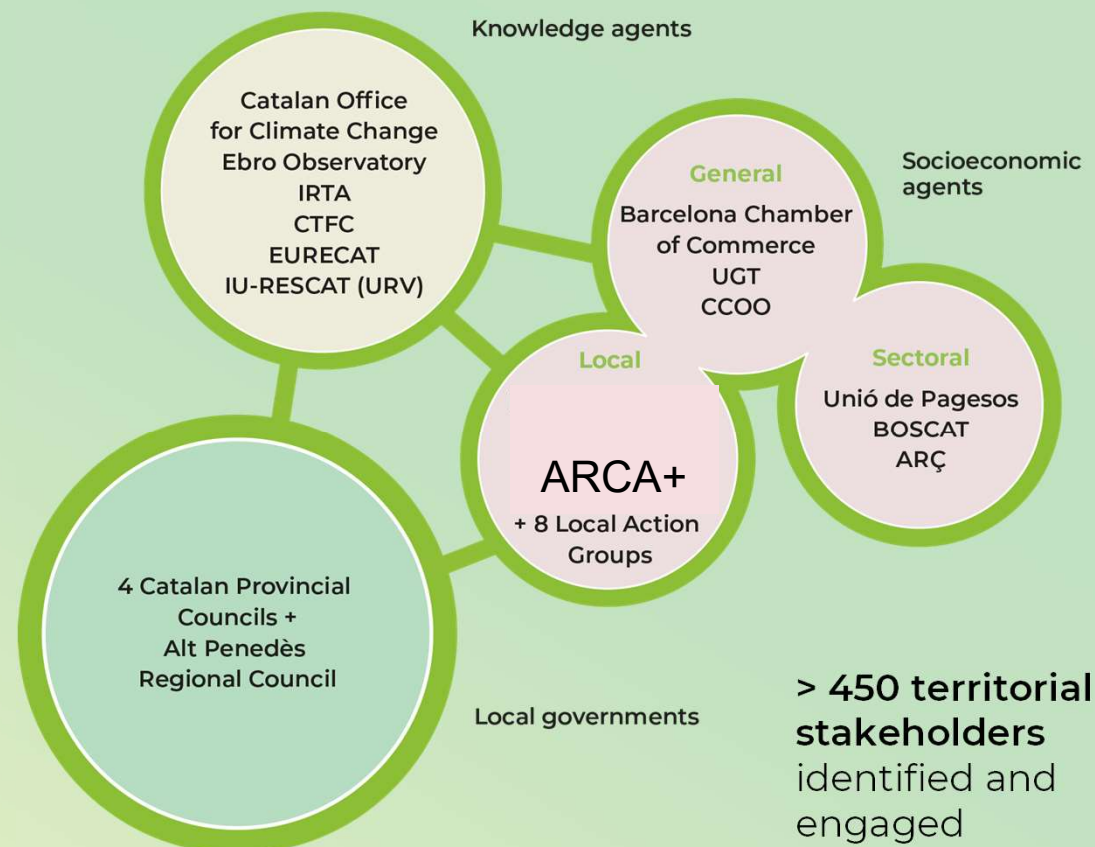
€18,6M BUDGET
(COMMITMENT TO MOBILISE OVER €73M)



<76 ADAPTATION ACTIONS



Led by the **Barcelona Provincial Council**



**Life_eCO
adapt50**



Co-funded by the
European Union

Fostering action for climate change adaptation

Raise **awareness** towards the **need and opportunities of adaptation** to climate change in the rural areas.

Foster the **collaboration** among stakeholders and the **co-creation** of innovative adaptation solutions.

Support the adoption of climate resilient practices in **agriculture and livestock, forestry, tourism and fishing** activities.

Scaling up adaptation in public and private policies and action plans, replicability and fund raising.

How do we do it?

By analysing climate **impacts and vulnerabilities**

By fostering **stakeholder collaboration** to identify needs and solutions

By sharing **knowledge and best-practices** for sector-specific actions.

By **implementing actions** to improve adaptation capacity

By **scaling up solutions** and mainstreaming adaptation in public and private policies

By **mobilising funding** for additional actions and adapting **insurances** to new climate conditions

By **monitoring** progress and the effectiveness of solutions



The Living Labs for Climate Change (LL4CC)

Participatory structures gathering stakeholders, local authorities, NGOs and citizens willing to **collaborate** for improving adaptation capacity of their territory.

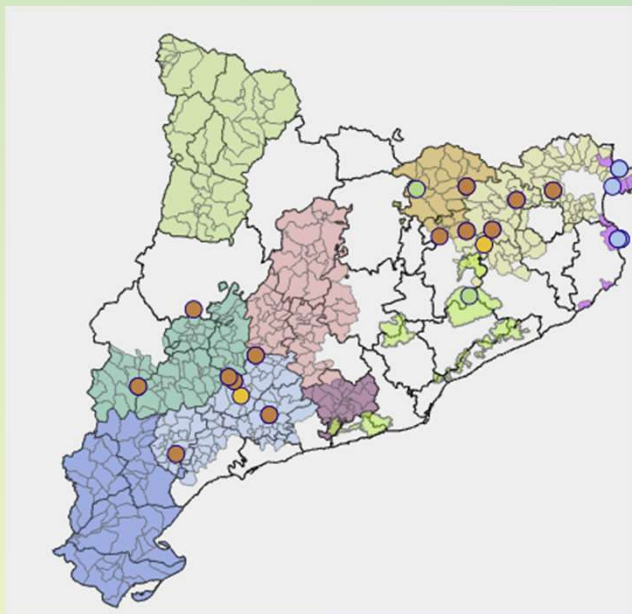
They convene approximately four times per year to discuss, propose and agree on **adaptation actions** to be implemented in their territory.

LL4CC are intended to become permanent governance structures for climate change adaptation.



Adaptation Actions

The project will carry out over 76 demonstration activities throughout the territories.



Agri-livestock



Forestry



Fisheries



Tourism

<https://ecoadapt50.eu/en/accions>

Life_eCO
adapt50



Co-funded by the
European Union

Adaptation Actions

Extensive livestock management with GPS-based virtual fencing collars.

Using geolocation systems and **virtual fencing** for the monitoring and management of animals in **extensive livestock** systems.

Objectives:

- Enhance the competitiveness of livestock farms
- Generate employment opportunities in sparsely populated areas.
- Mitigate wildfires risk in grazing areas.

Cost: 32,831.05 €

Status: implemented

Agri-livestock



Initiative led by
Unió de Pagesos de Catalunya

Life_eCO
adapt50



Co-funded by the
European Union

Adaptation Actions

Creation of an Agroclimatic Sensor Network to Support Organic Farming in Adapting to Climate Change

Installation of a sensor network to monitor microclimatic conditions, soil moisture, and temperature.

Monitoring stations are deployed across irrigated crops (fruit trees, vegetables, almond and olive trees) and rainfed crops (olive trees and vineyards).

Objective:

- Provide farmers with guidance on how to optimize water use, without compromising crop performance and health.

Cost: 42,358.00 €

Status: implemented

Agri-livestock



Initiative led by Local Action
Group Leader Ponent

Life_eCO
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Co-funded by the
European Union

Adaptation Actions

Forestry interventions to enhance biodiversity and climate resilience in the beech forests of Matagalls Mountain

Forestry work on Matagalls mountain (24.5 ha of beech forest) following biodiversity and climate change adaptation criteria.

Objectives:

- Selection of future trees to foster a balanced forest structure.
- Habitat diversification actions through the creation and maintenance of clearings

Cost: 48,000.00 €

Status: implemented

Forestry



Initiative led by
**Girona Provincial Council and
Montseny Natural Park**

Challenges for 2nd phase (2026-2030):

- Ensuring replicability and scalability of pilot and demonstration actions..
- Mobilisation of complementary funds for additional actions
- Involving the insurance sector in climate adaptation strategies.
- Mainstreaming of climate adaptation in public and private policies

5. Other good practices from Catalonia

- Established under the Climate Change Law for Catalonia (2017)
- Managed by the Government of Catalonia
- Funding sources include:
 - 50% of the revenue from the CO2 emissions tax on motor vehicles
 - 20% of the revenue from taxes on environmentally impactful facilities.
- Since its inception in 2021, the Climate Fund has mobilised more than €300 million for a diverse range of mitigation and adaptation projects.
- Funding has been provided to:
 - Research and innovation
 - Business green investments
 - Local governments
 - Other projects



Generalitat de Catalunya
Government
of Catalonia

https://canviclimatic.gencat.cat/ca/ambits/Llei_canvi_climatic/el-fons-climatic/index.html

Thank you!

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**Diputació
Barcelona**

Àrea d'Acció Climàtica



OBJECTIUS GLOBALS
de Desenvolupament Sostenible

