

# Fostering local climate adaptation plans and actions

Sílvia Cañellas-Boltà  
Policy officer

Department of Climate Action and Energy Transition  
Barcelona Provincial Council

15/10/2025



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# 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

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)*

<https://www.diba.cat/ca/web/cci/cercles>

*Network of Cities and Towns  
Towards Sustainability*



<https://www.diba.cat/ca/web/xarxasost>

## 2. County Adaptation Plans

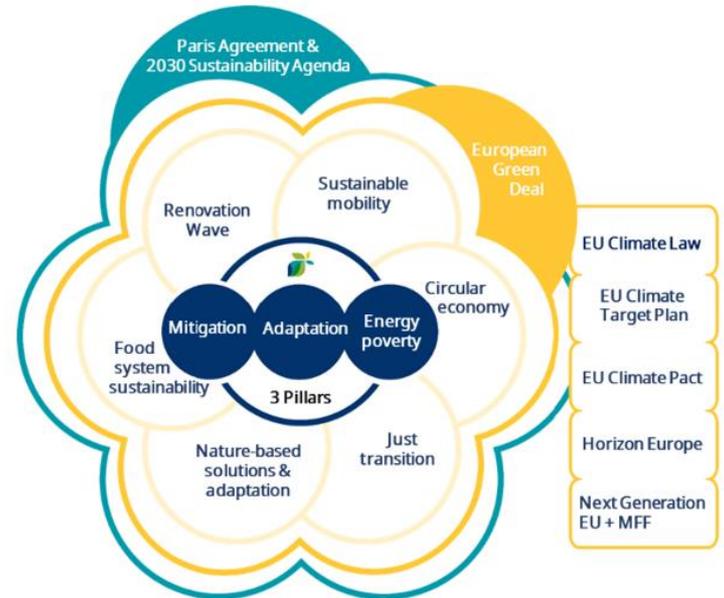
### Sustainable Energy and Climate Action Plans (SECAP)



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.

The initiative is structured around three pillars::

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

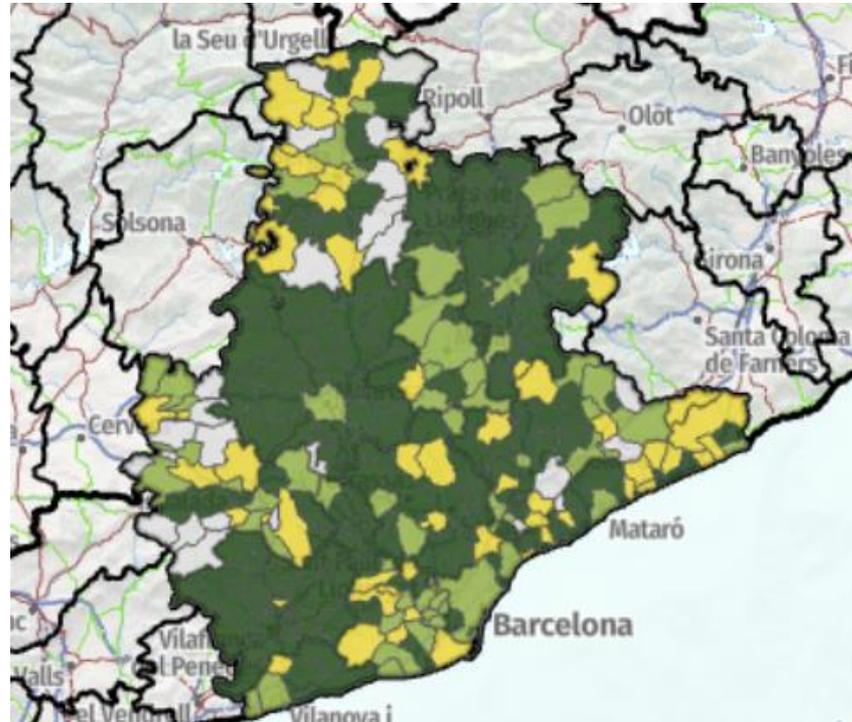
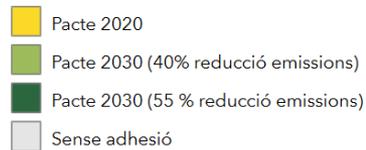


<https://eu-mayors.ec.europa.eu/en/about>

## 2. County Adaptation Plans

Barcelona Provincial Council: the first CoM territorial coordinator in 2008

>90 % of municipalities at Barcelona province are signatories of the CoM



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

## 2. County Adaptation Plans

Barcelona Provincial Council provides support to the municipalities in several areas:

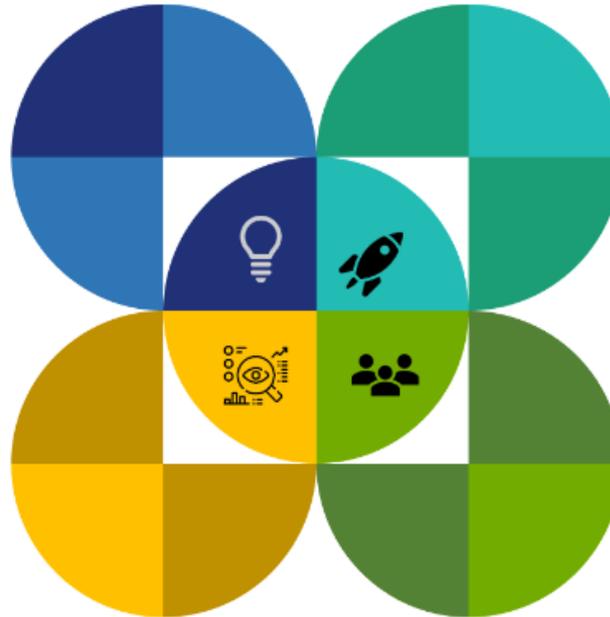
### PLANNING

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

## 2. County Adaptation Plans

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

CONTENT:

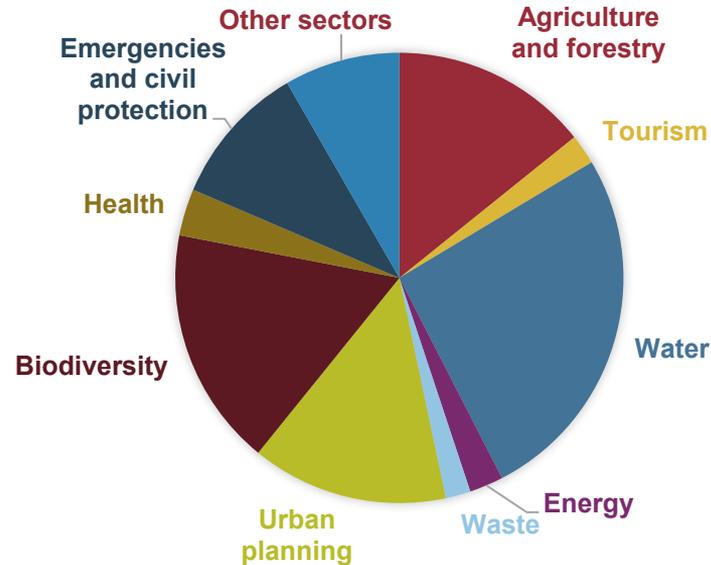
- Current climate and projections
- Climate vulnerability assessment → Excel-based tool for simplified vulnerability assessment (ASVIC)
  - ✓ Heatwaves
  - ✓ Water availability and droughts
  - ✓ Forest impacts
  - ✓ Biodiversity and landscape values
  - ✓ Flooding risk
  - ✓ Storms and extreme weather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

## 2. County Adaptation Plans



### Summary of adaptation actions in the County Adaptation Plans

11 plans completed  
4,306 actions  
238.2 M€



Distribution of  
Actions by Sector

### 3. Support for implementing climate adaptation measures

The Barcelona Provincial Council provides both technical and economic support to municipalities for the implementation of adaptation projects through ordinary schemes (“catalogue of services”) and dedicated programmes.

#### URBAN ENVIRONMENT

- “*Naturalisation* for climate adaptation”
  - Green schools/playgrounds
  - “Bioclimatic” pathways
  - Shadowing structures
  - Sustainable drainage systems-SUDS
- Green and blue infrastructure
- Nature restoration



## 3. Direct support to municipalities

### ADAPTACLIMA

- 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*



NbS (Nature-  
based Solutions)



Resource savings  
and efficiency



**adaptaclima**  
2030

## 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).

The programme 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)



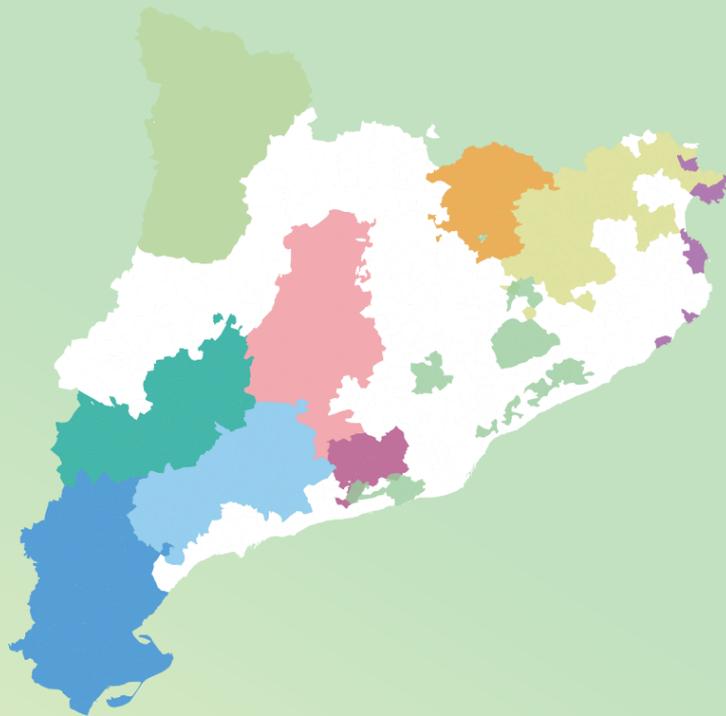
> 906.000 INHABITANTS (12% OF THE POPULATION)



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

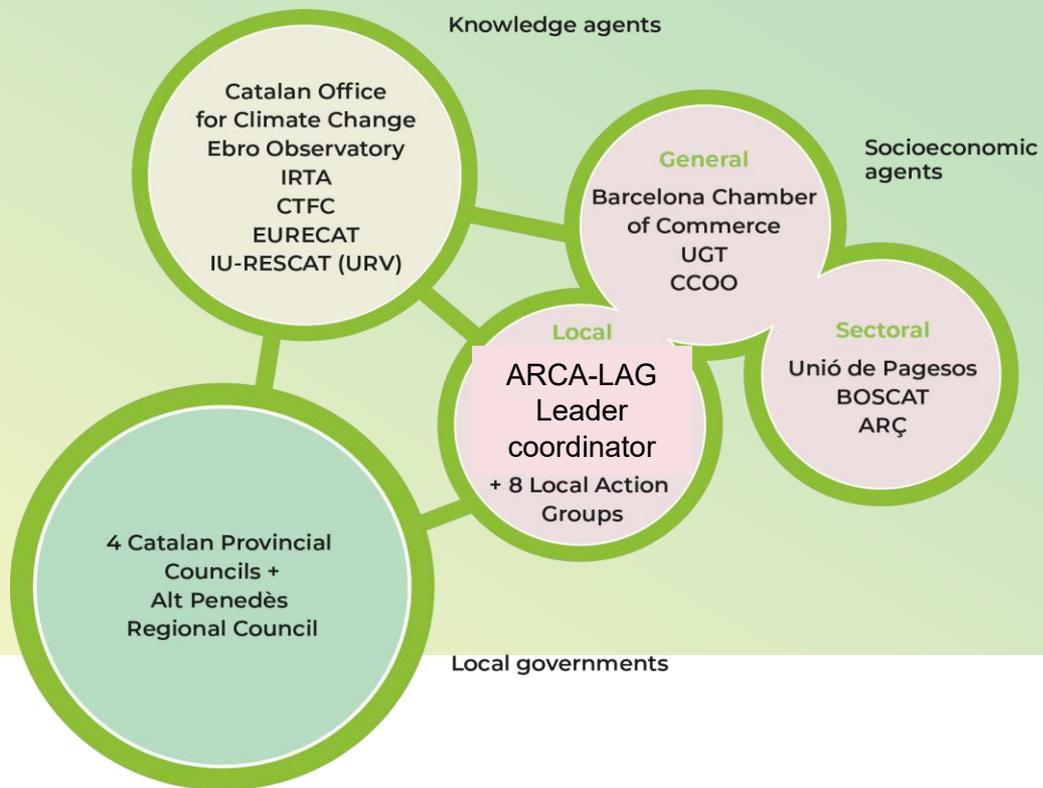


<76 ADAPTATION ACTIONS



## Led by the Barcelona Provincial Council

25 partners



> 450 territorial stakeholders identified and engaged

# 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**

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)

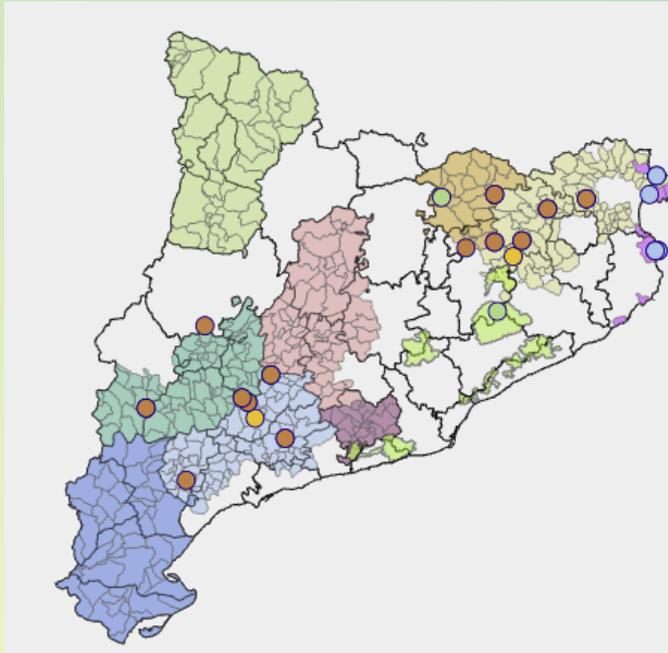
**Participatory structures** gathering stakeholders, local authorities, NGOs and citizens willing to **collaborate** for improving adaptation capacity of their territory.

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



Agri-livestock



Forestry



Fisheries



Tourism

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

**Life\_eCO**  
**adapt50**



Co-funded by the  
European Union

### Agroclimatic Sensor Network to Support Organic Farming in Adapting to Climate Change

Installation of equipment to monitor microclimatic conditions, soil moisture, and temperature.

Sensors are located 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

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

Forestry work in a protected area (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 2<sup>nd</sup> 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

## Catalan Climate Fund



**Generalitat de Catalunya**  
Government  
of Catalonia

- Established under the Climate Change Law for Catalonia (2017)
- Managed by the Government of Catalonia
- Money comes from:
  - 50% of the revenue from the CO<sub>2</sub> 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

[https://canviclimatic.gencat.cat/ca/ambits/Llei\\_canvi\\_climatic/el-fons-climatic/index.html](https://canviclimatic.gencat.cat/ca/ambits/Llei_canvi_climatic/el-fons-climatic/index.html)

Thank you!

Sílvia Cañellas Boltà  
[canellasbsi@diba.cat](mailto:canellasbsi@diba.cat)



**Diputació  
Barcelona**

Àrea d'Acció Climàtica



**OBJECTIUS GLOBALS**  
de Desenvolupament Sostenible