



Diputació  
Barcelona

**Next2Met**  
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European Union  
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# Data management as a key factor for climate action and territorial balance

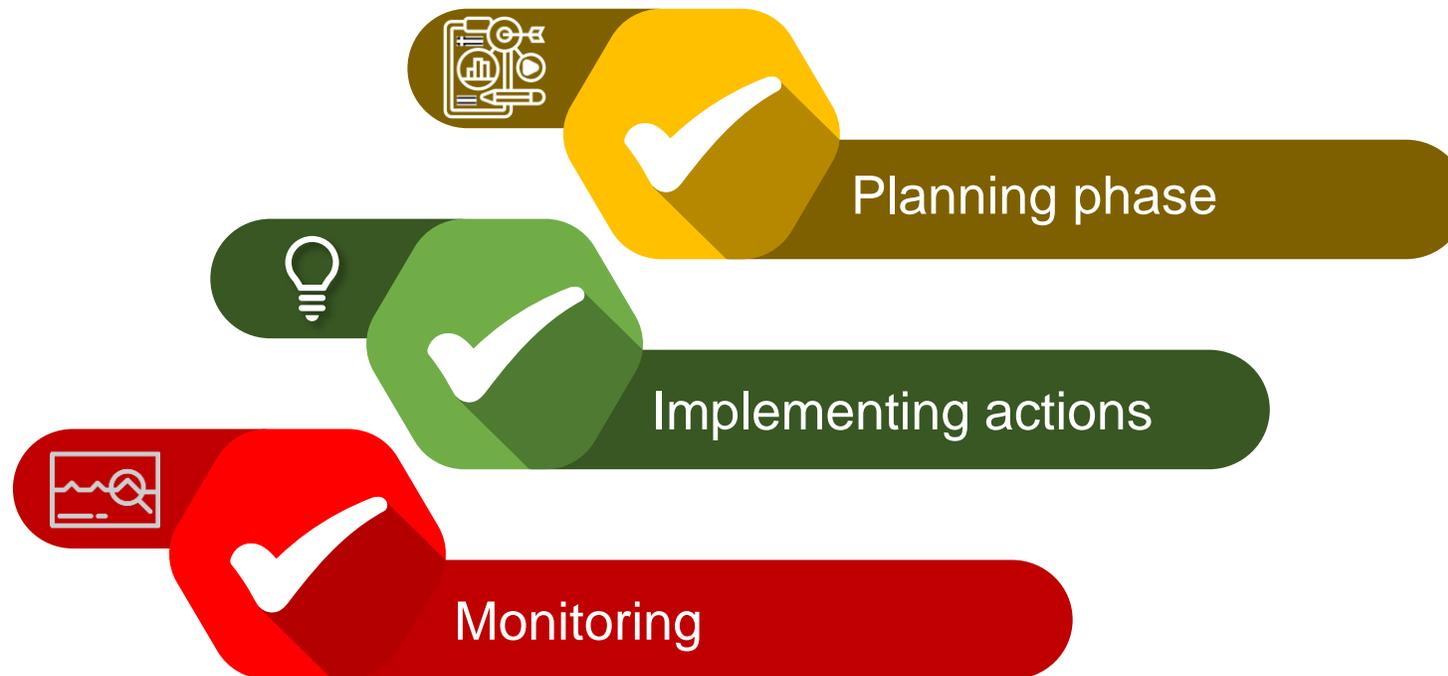
**Carme Melcion Fontbernat**

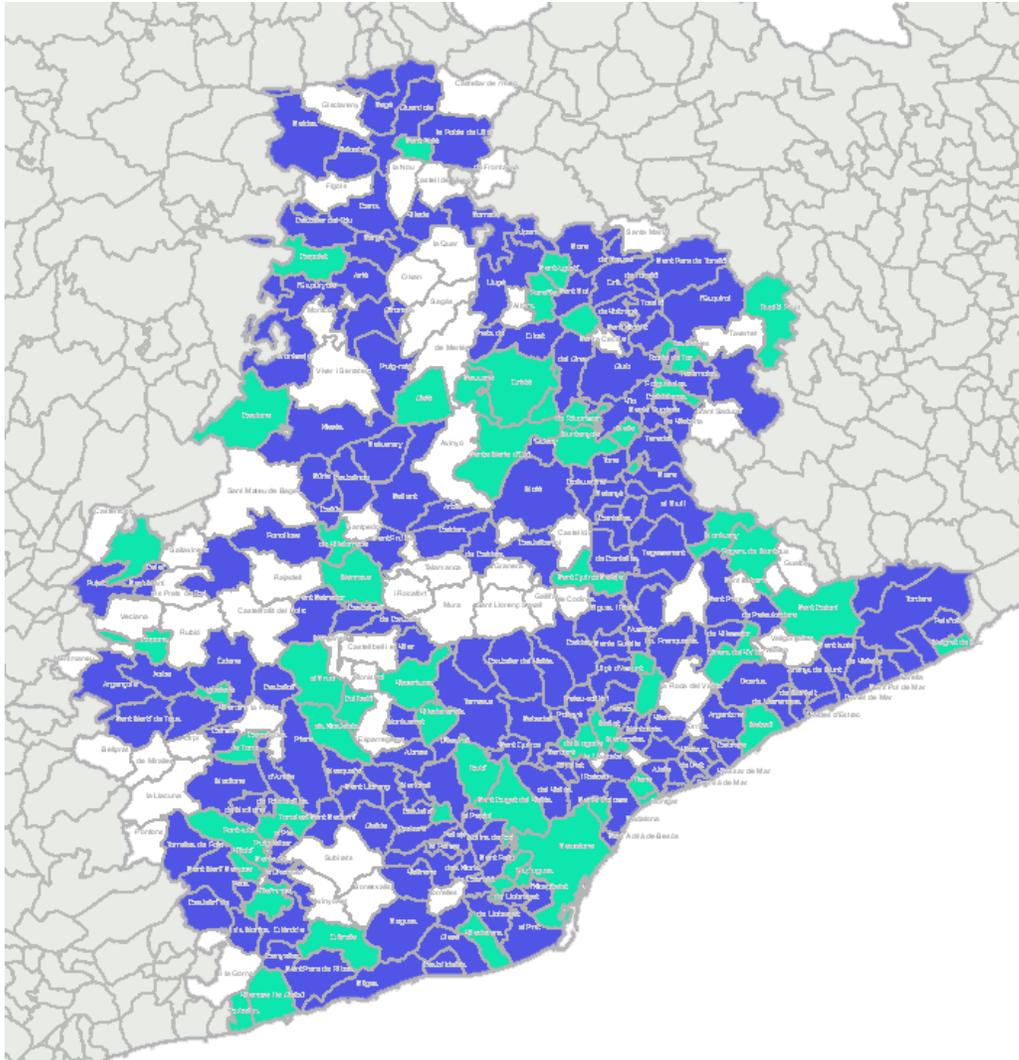
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Local Authorities are taking the lead to fight climate change and to guarantee a healthy environment to all citizens





58%

< 5.000 hab



27%

5.000 hab a  
20.000 hab.



8%

20.000 hab a  
50.000 hab.



6%

> 50.000 hab

If we want that planning can be drafted,  
implemented and monitored we must  
develop tolos and and integrated  
support

# Planning and monitoring phases



Collecting data  
at local scale of  
all 311  
municipalities



Calculating  
CO2 emissions



Assessing  
climate change  
vulnerability



Planning actions.  
Collecting  
information of all  
actions planned



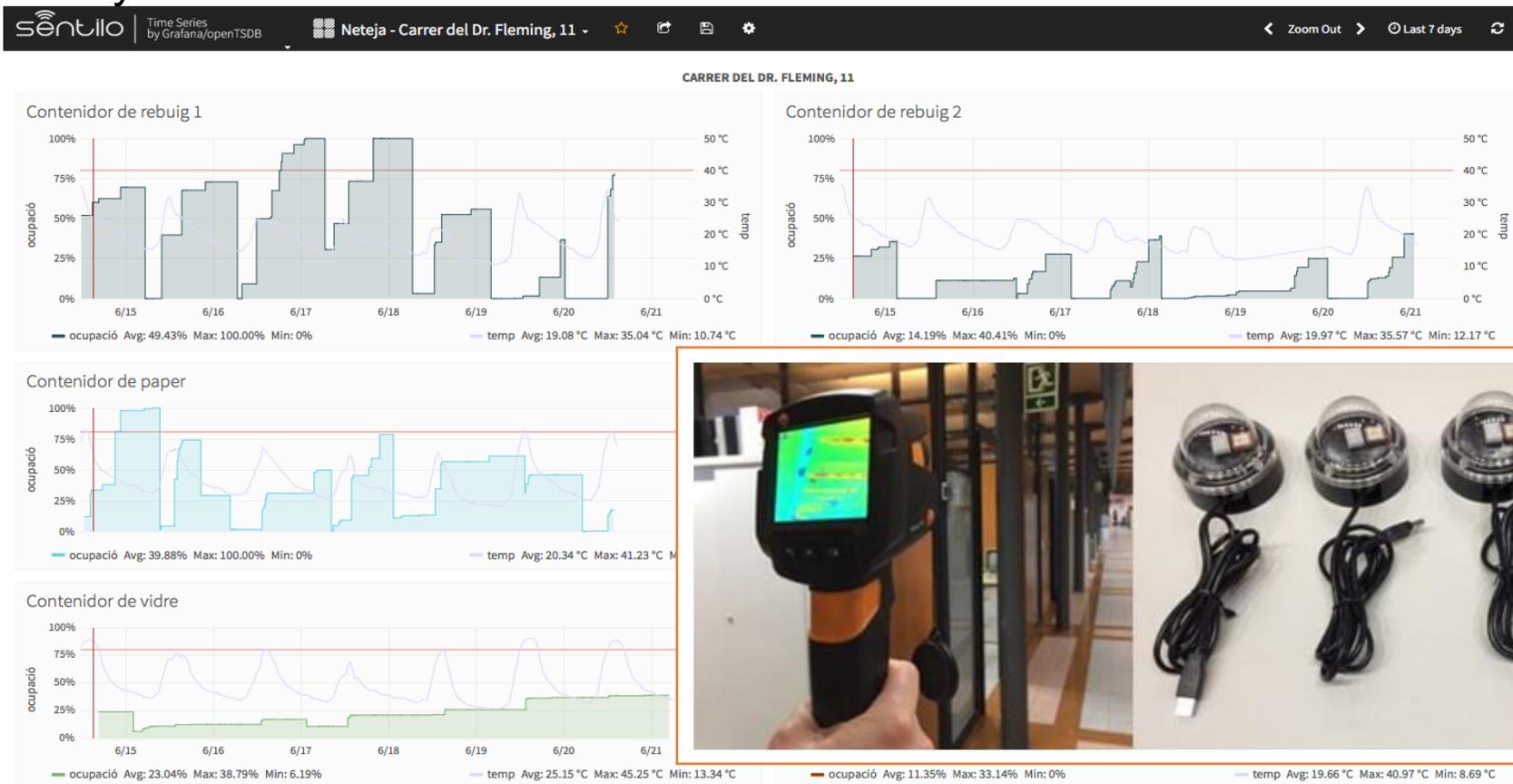
Analysis of actions:  
reinforcement of supports  
for Local Authorities or  
creation of new ones.  
Capacity building



Creation of tools to support  
planning, monitoring,  
implementation of actions,  
open data and raising  
awareness

# Implementing actions

Many of the measures planned (air quality, noise reduction ,energy, water and waste management...), can be implemented and assessed thanks to ICT and to the integration and analysis of data.



# An example: Energy accounting and monitoring

- ✓ **First step for Local Authorities to improve their energy management systems**
- ✓ **Knowledge = Management = Control = Savings**
- ✓ **Support to Local Energy Agencies**



# A practical example: The Local Energy Agency of Osona



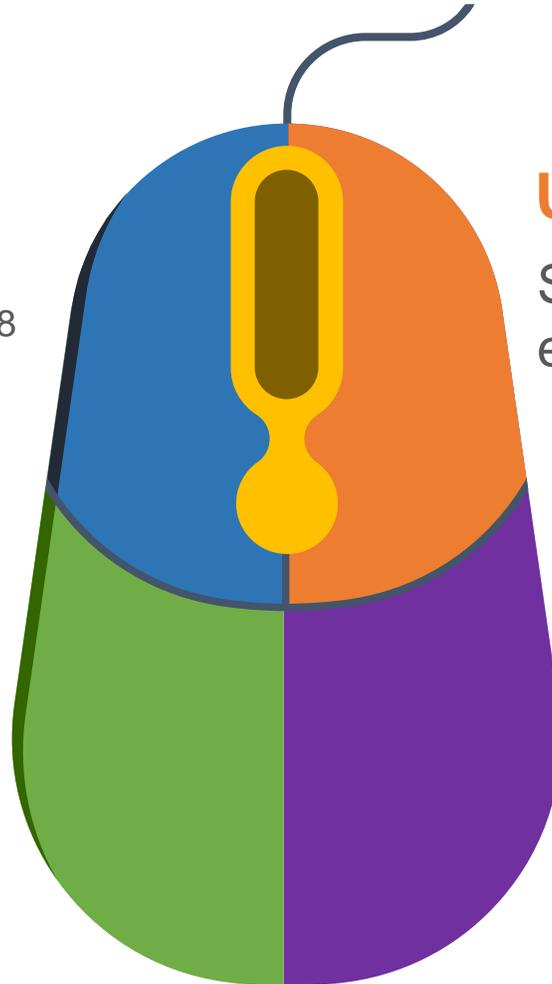
## Energy accounting support

Energy accounting software- 50 municipalities, 48 small ones (less than 20.000 inhabitants)



## Public lighting GIS

GIS including all light points of 50 municipalities



## Unplug yourself project

Stakeholder engagement for energy efficient schools in Osona, Spain

## Remote management

Remote management of more than 50 buildings, most of them in small towns and villages.



# ICT and smart technologies are a key factor for territorial balance:



Facilitates remote working. Reduces mobility and increases effectivity, no time spent commuting.



Small municipalities, specially more spread ones, can use ICT to improve waste collection optimizing garbage trucks routes.



Climate emergencies such as floods or forest fires. The use of ICT tools will help prevention as well as action when any of those emergencies occur. That will help to alert fast so action can be undertaken sooner, minimizing the results.



Remote energy management of buildings and energy accounting systems. i.e. Local Energy Agencies give support to several small municipalities at the same time



01

Centralized data collection allows standardized calculations and assessments, as well as holistic approach and establishment of specific supports

02

Energy transition can be speed up thanks to ICT tools, smart grid and fibre installations.

03

Energy democratization needs open data and transparency, Smart region platform as well as apps and visioning tools are needed.

04

Smart technology, capacity building and bundled services (i.e Local Energy Agencies) allow small municipalities to be at the forefront of climate action



Thank you very much