

Learning from the crisis Adaptation Actions

Barcelona Metropolitan Area

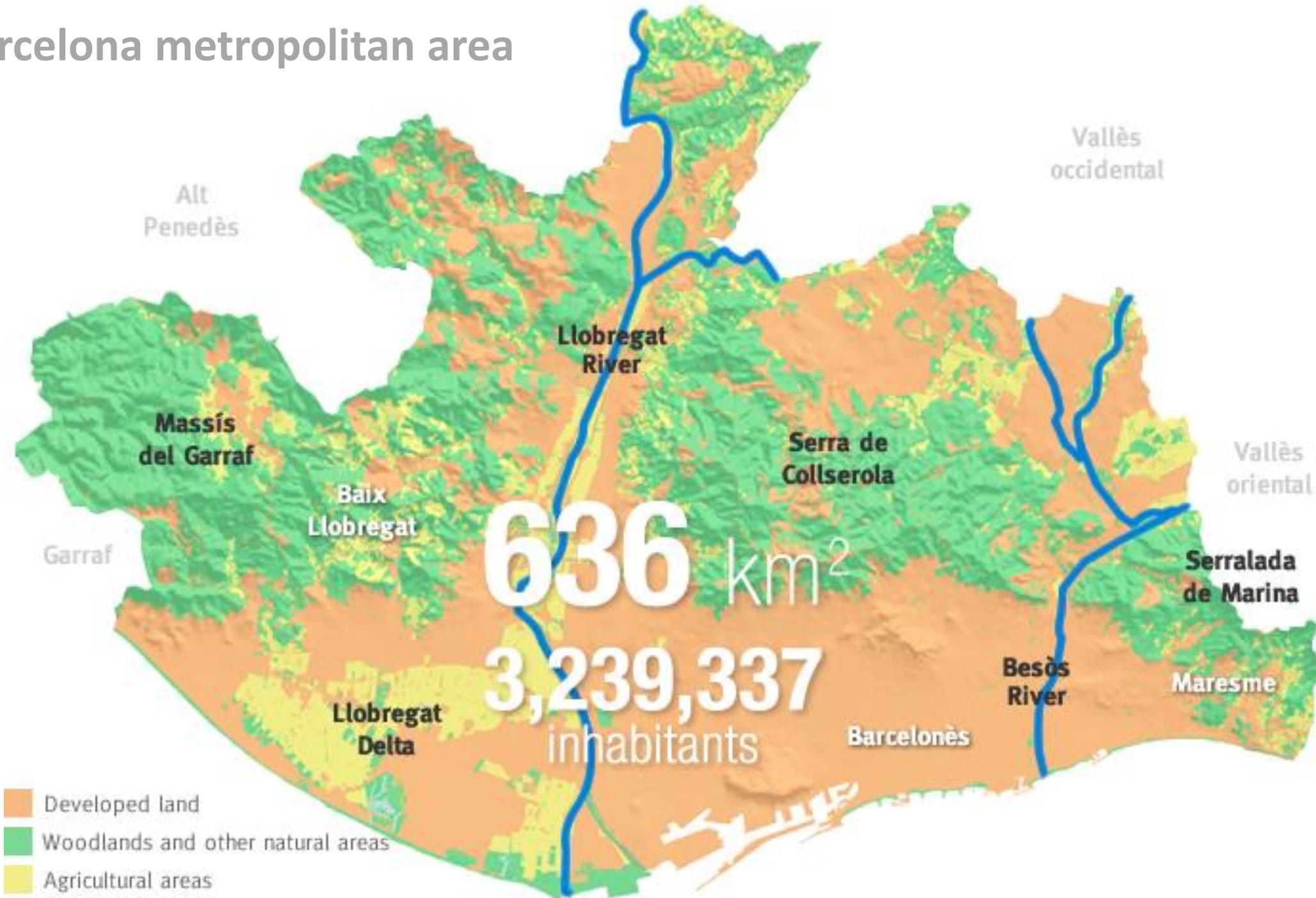
Elena Veza

Technique- Climate Emergency and Environmental Education

Climate Alliance
Digital Days
**LOCAL SOLUTIONS
TOWARDS A GREEN
RECOVERY**
online from 6–9 October | #CADCigitalDays

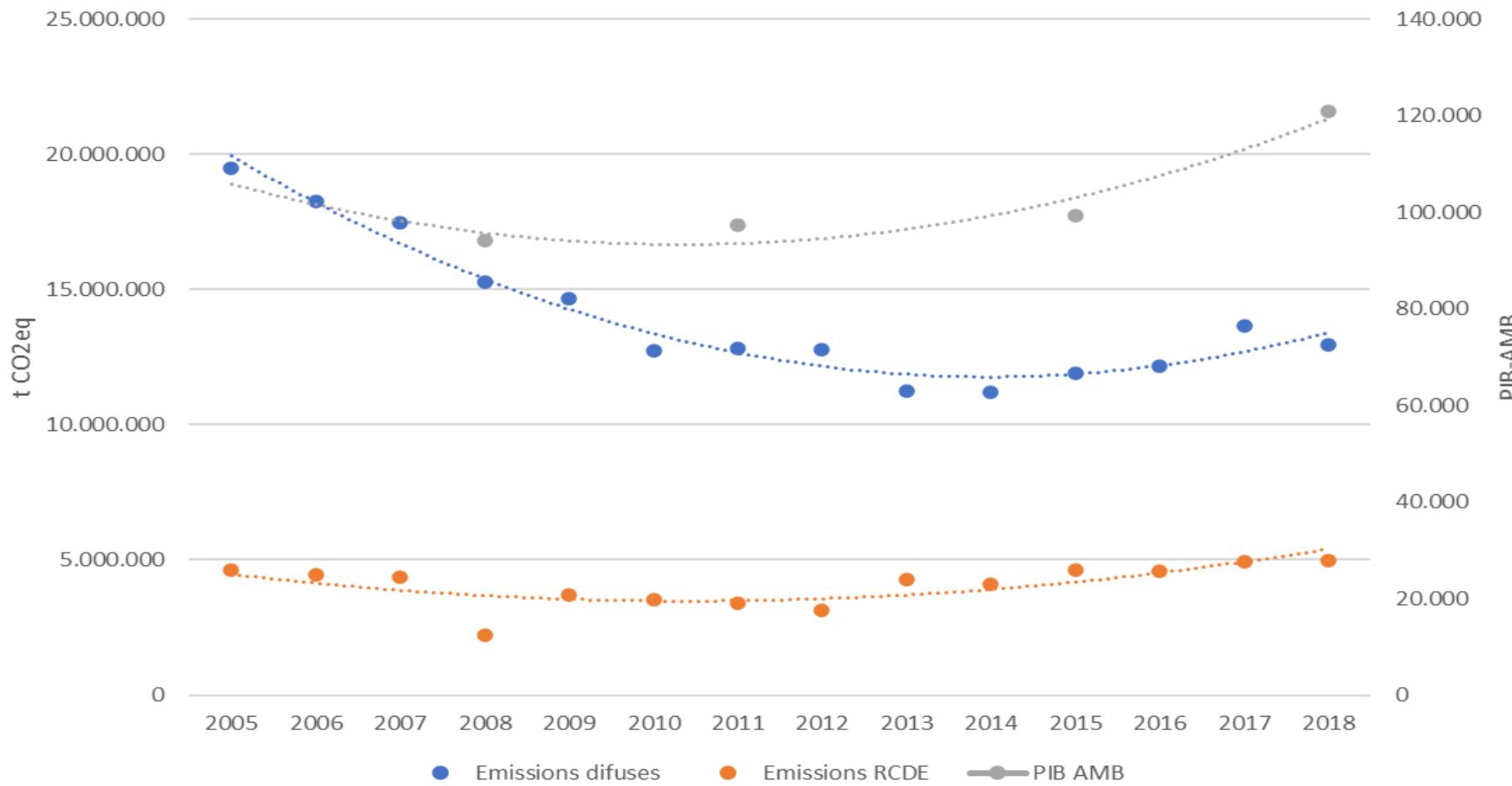


The Barcelona metropolitan area



THE BARCELONA METROPOLITAN AREA: Non-ETS and ETS emissions trend (2005-2018)

Tendencia de les emissions difuses i del RCDE vs PIB-AMB
(2005-2018)



Emissions trends



THE BARCELONA METROPOLITAN AREA: Main climate challenges

Temperature increase

+ 1.9 ° C (Paris
agreement)

+ 3.5 - 4 ° C (BAU)
↑ Tropical & torrid nights
(over 20-25 ° C)/ more
frequent



Changes in rainfall patterns

↑ Drought and water scarcity
↑ Fire risk



Sea level rise

+0.47 m - +1.80 m

↑ Flood risk



Some impacts

Health impacts – vulnerable population

Impacts on infrastructures – economic effects-

Less water availability (↑ Demand)

Challenges

Carbon neutrality 2050 / Increment
renewables
↑ Adaptation / Resilience



THE BARCELONA METROPOLITAN AREA: Main climate policies

EU targets for 2030

- ↓40% cuts in GHG emissions
- ↑32% share for renewable energy
- ↑32.5% improvement in energy efficiency



Climate and Energy Plan 2030

MITIGATION

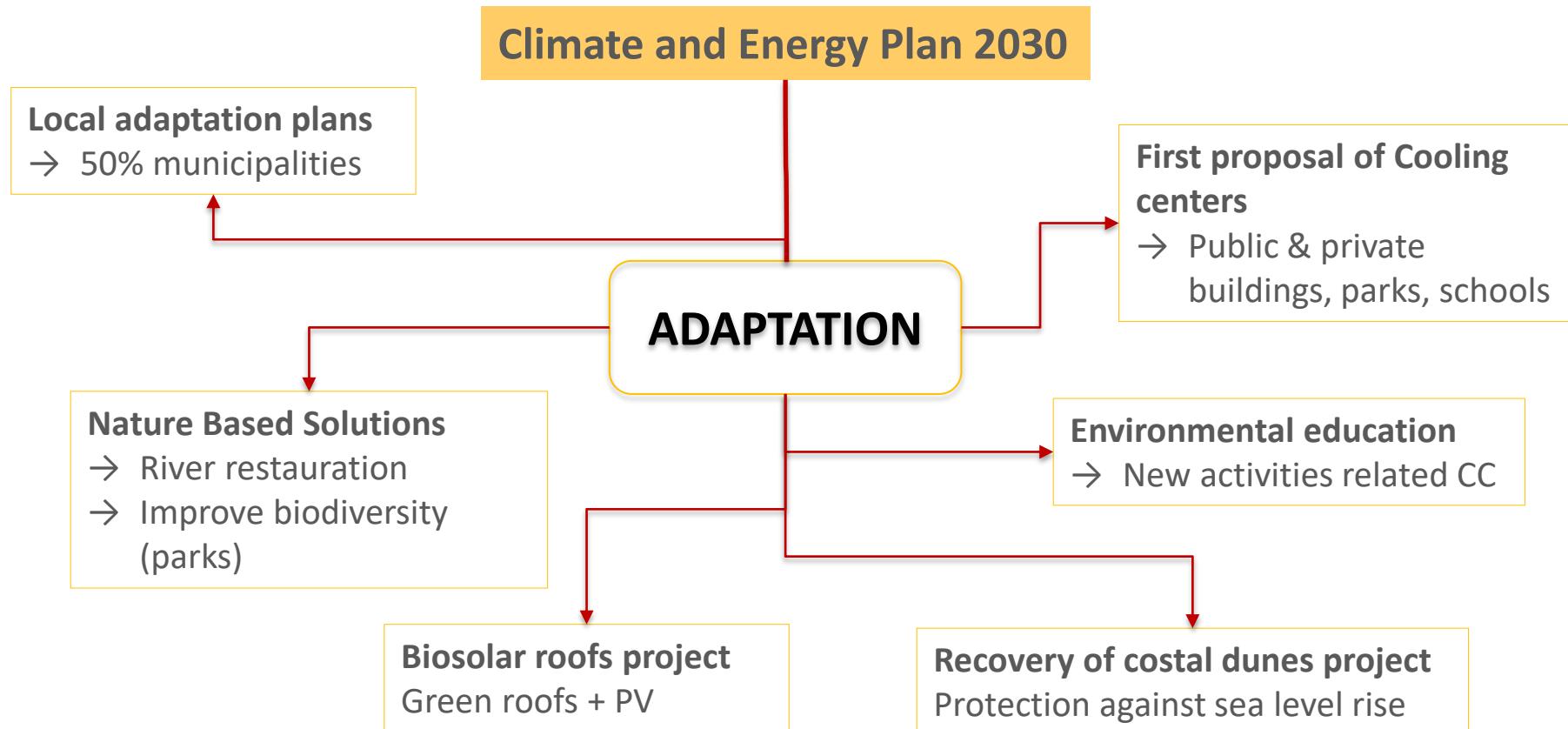
Carbon management strategy

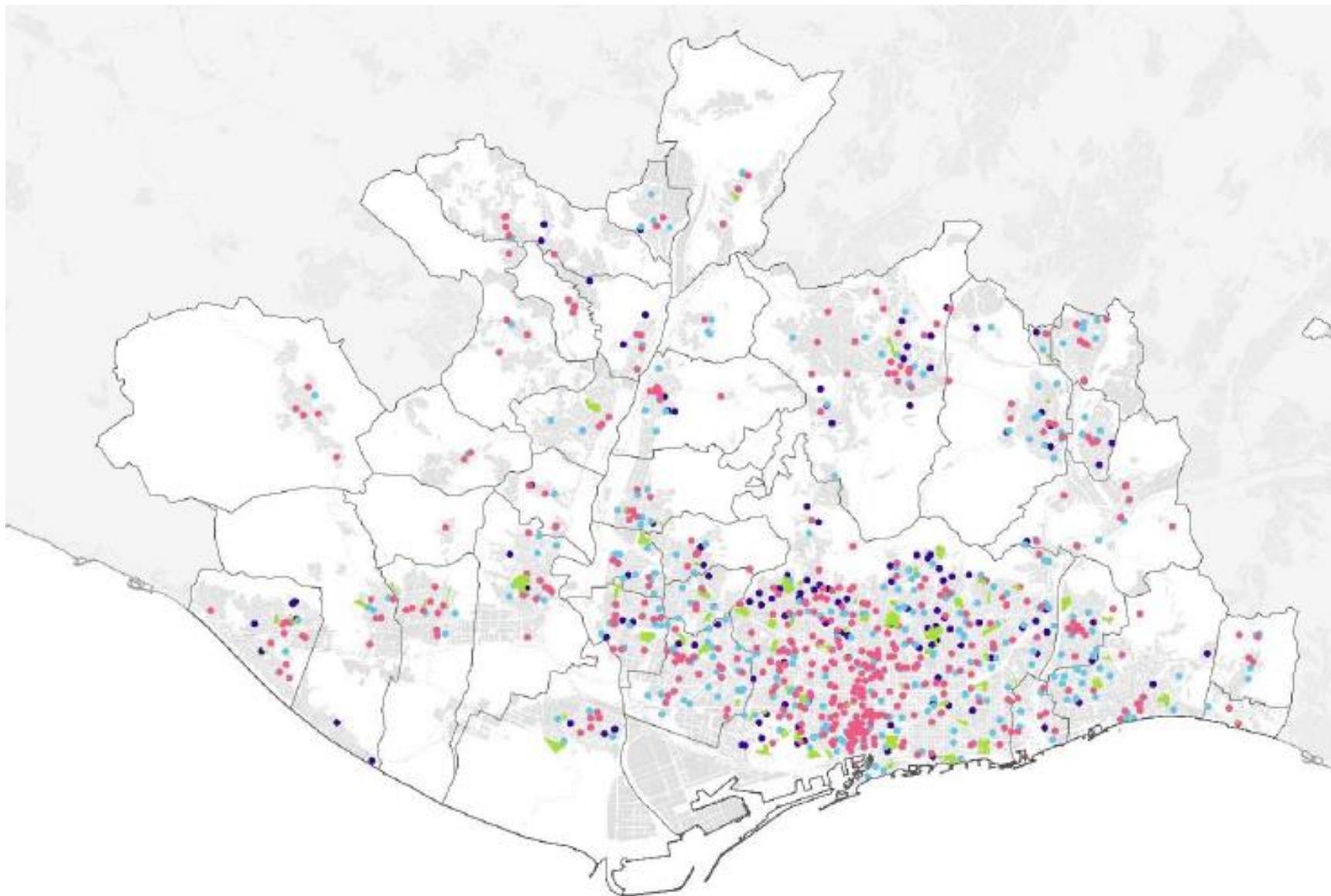
- 57 enterprises that offer services at the metropolitan level in main sectors

Energetic transition

- Photovoltaic panels in public buildings (17)
- Solar-powered charging stations (9)

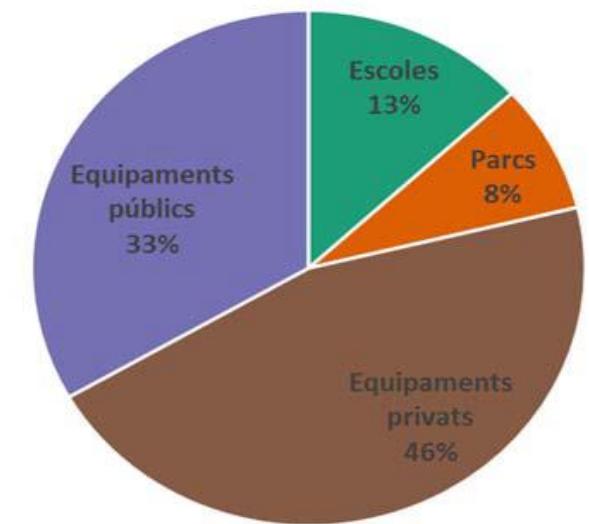
THE BARCELONA METROPOLITAN AREA: Main climate policies

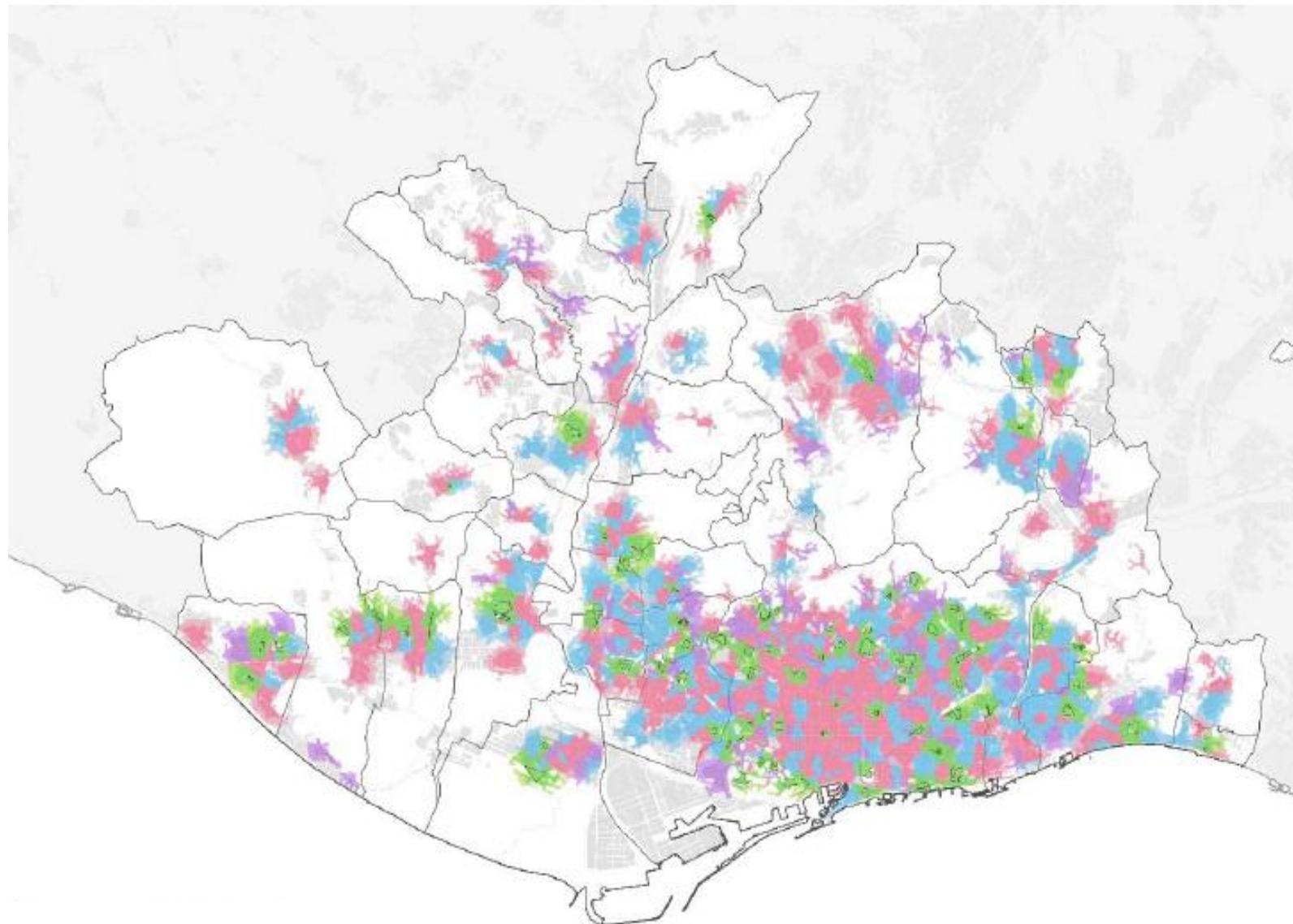




Cooling centers

- Parks
- Private
- Public
- Schools





**Walking time to cooling centers (10'
i 15')**

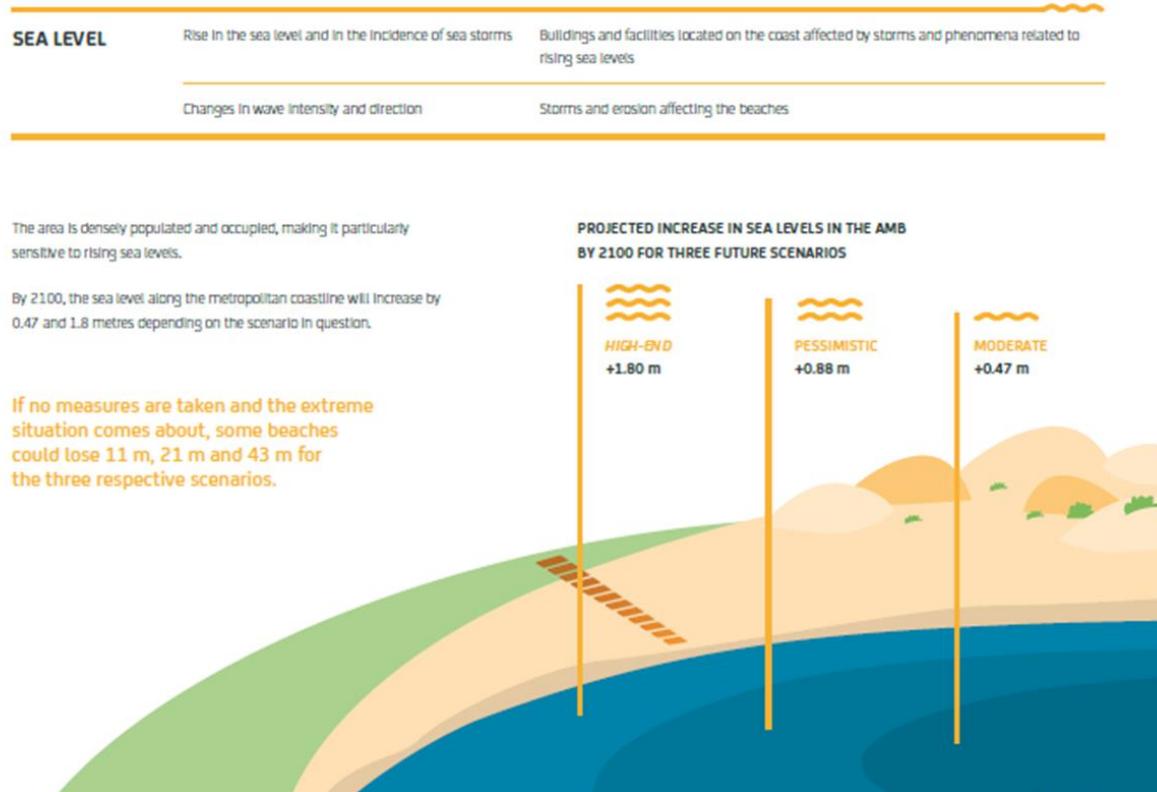
- Parcs
- Privats
- Pùblics
- Escoles

72% population

<https://www.amb.cat/s/web/ecologia/sostenibilitat/canvi-climatic/adaptacio.html>

Metropolitan Experiences of adaptation to climate change

RES-4-2: Recover the dunar system of PCE2030 AMB



Sea level and Hybrid Dune Source: AMB

THE BARCELONA METROPOLITAN AREA: Actions

Operas Project (2016-2018):

<https://www.amb.cat/es/web/territori/actualitat/noticies/detall/-/noticia/recuperar-les-dunes/5739791/11656>

Maintenance plan with citizen participation on a voluntary basis:

<https://www.amb.cat/es/web/territori/actualitat/noticies/detall/-/noticia/volem-platges-amb-dunes-/5852417/11656>



Thank you!

Elena Veza
eveza@amb.cat