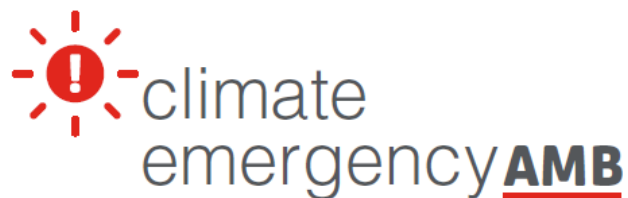


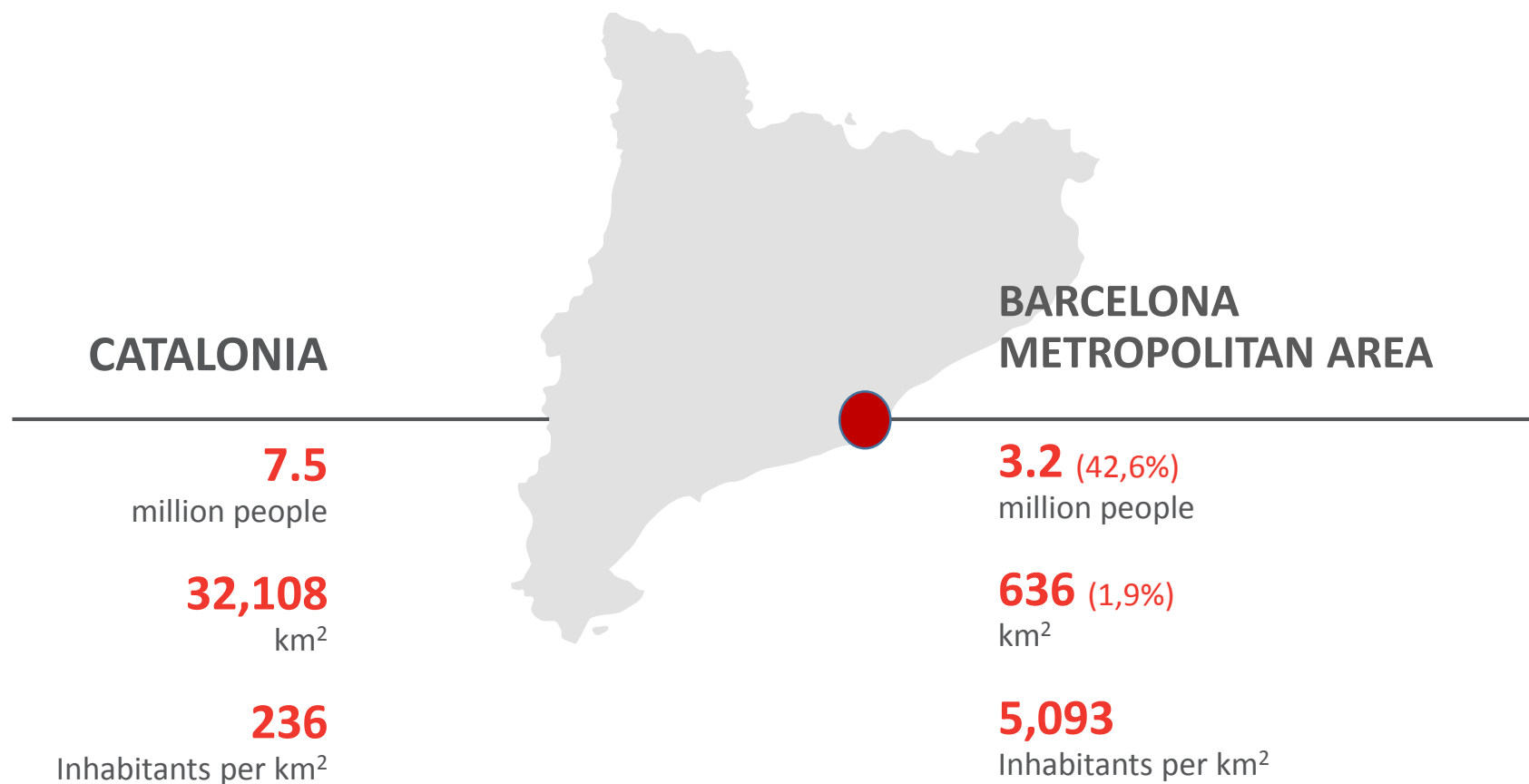
Barcelona, 18<sup>th</sup> of June 2021

# Climate Emergency Declaration and effects of the pandemic in environment indicators of Barcelona Metropolitan Area

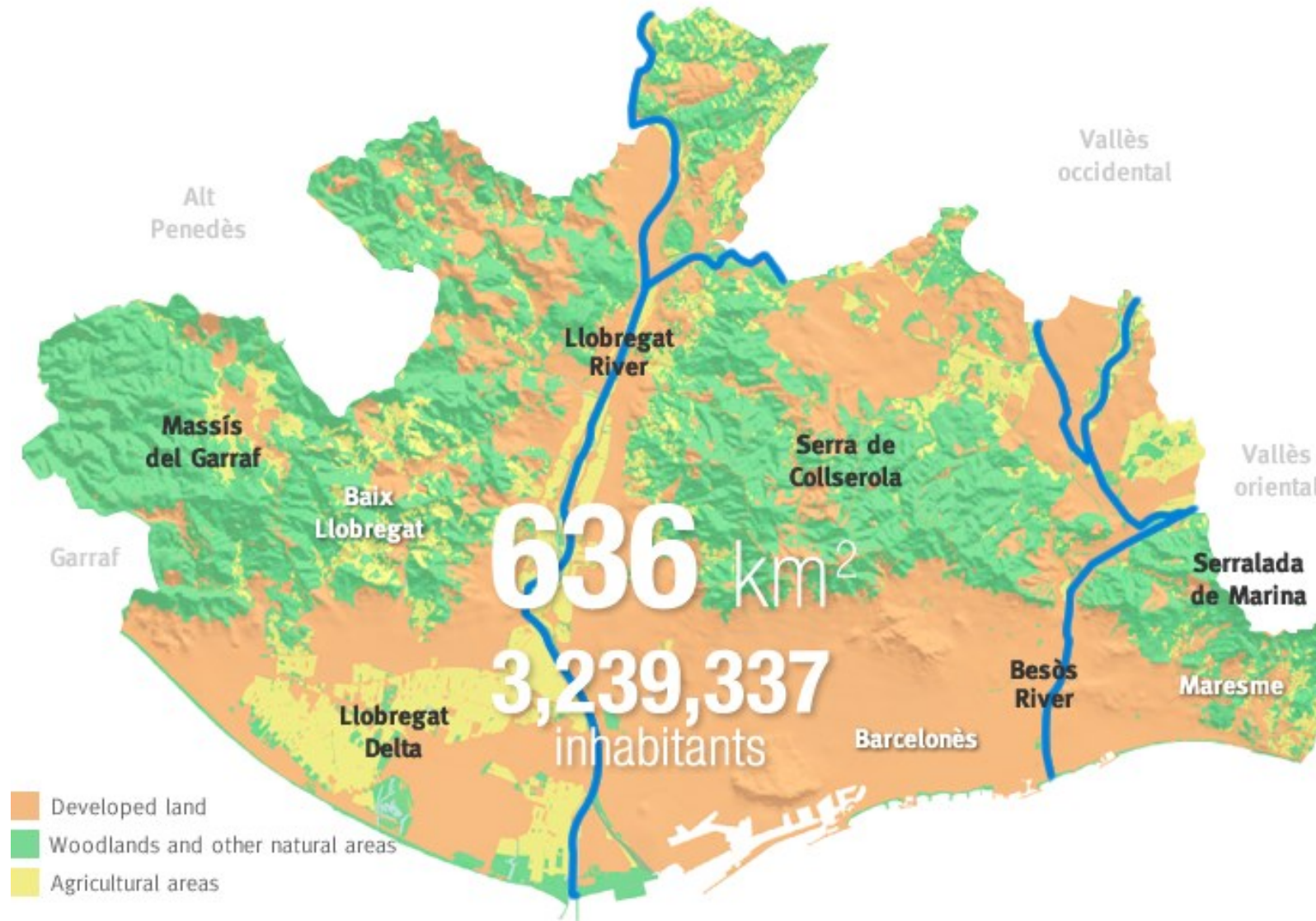


Elena Lacort Maza [elacort@amb.cat](mailto:elacort@amb.cat)  
Climate Emergency Technician  
Barcelona Metropolitan Area

# Catalonia and the Barcelona Metropolitan Area (BMA)



# The Barcelona Metropolitan Area (BMA)





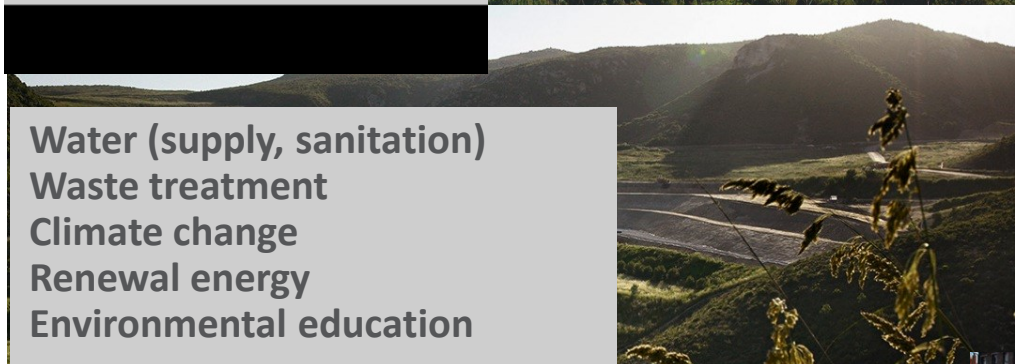
## POWERS of BMA



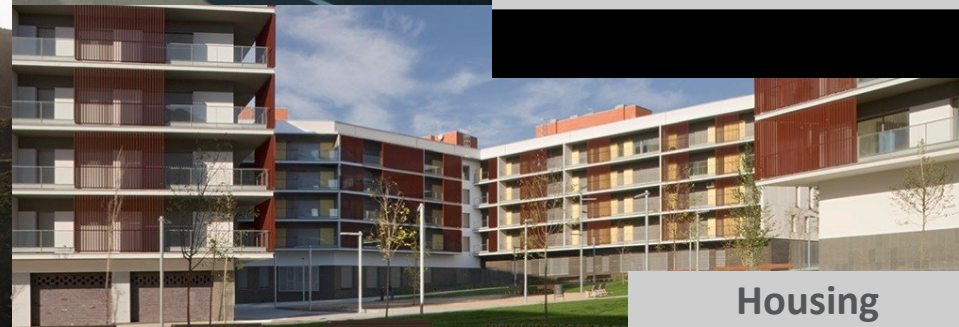
Urban Master Plan



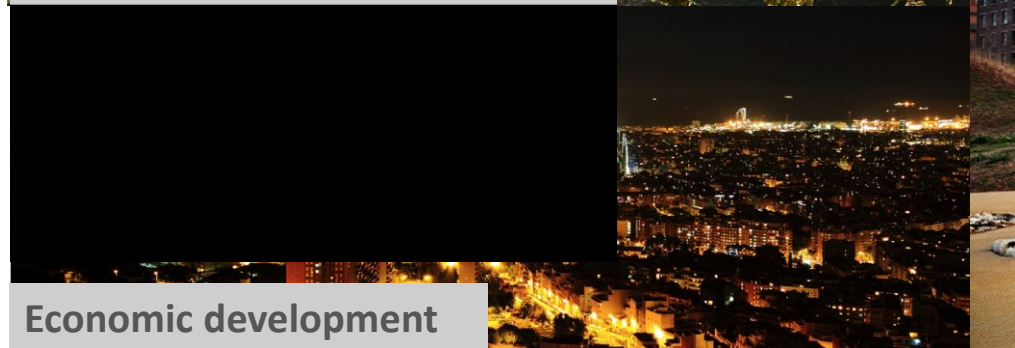
Mobility and transport



Water (supply, sanitation)  
Waste treatment  
Climate change  
Renewal energy  
Environmental education



Housing

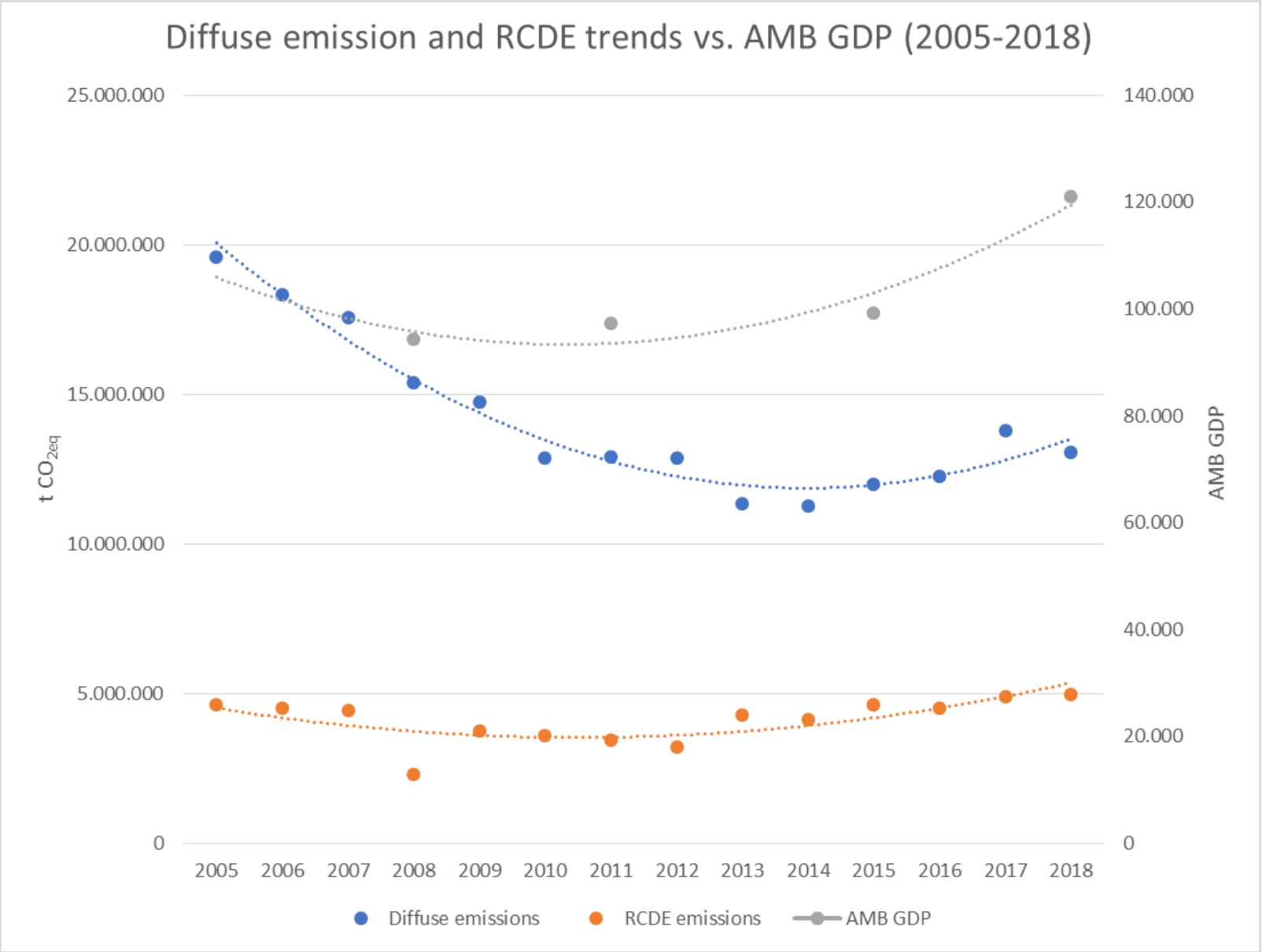


Economic development




Social cohesion

# Non-ETS and ETS emissions trend (2005-2018) in BMA

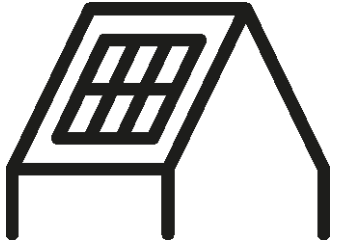


ETS emissions trends

**8%** 

# Climate emergency declaration in BMA (23-03-21)

## - Key challenges -



### 1. Energy transition

*Decarbonization and renewable energies with local generation, fair and efficient*



### 2. Efficient use and management of water resources

*Strategic master plan of the integral water cycle*



### 3. Electrified, efficient, intermodal and flexible mobility:

*Mobility Plan, reduce impact port/airport, better intermunicipal and rail flows*



### 4. Planning more resilient and sustainable cities and urban spaces

*Urban master plan and Nature Based Solutions*



### 5. Waste as resources:

*Circular economy and changes in production and consumption patterns*

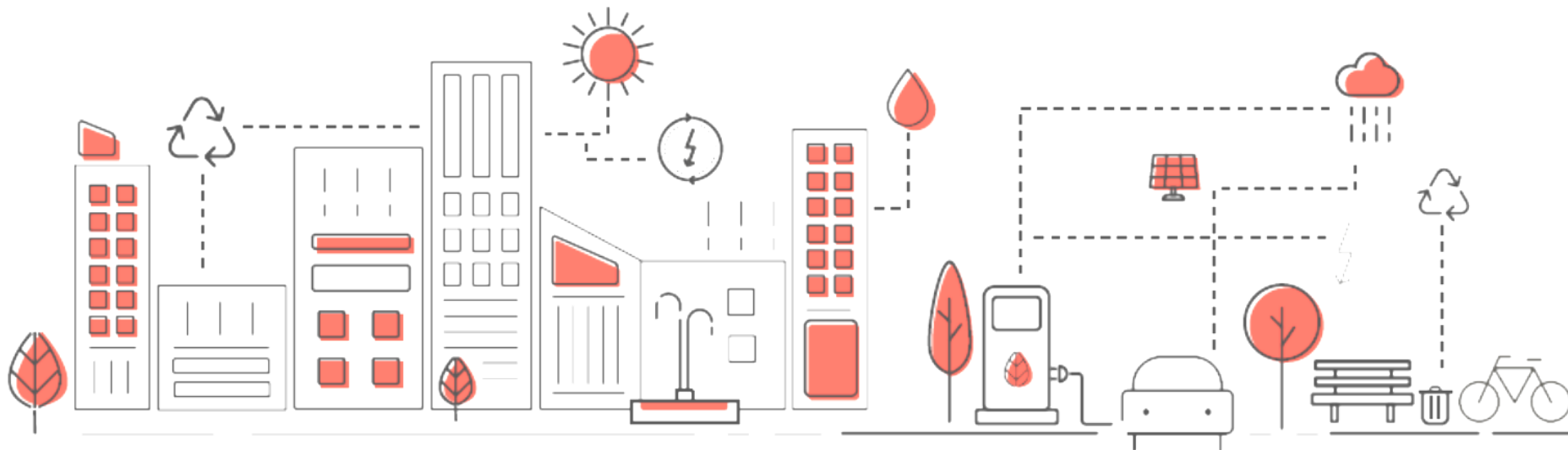
# *Climate emergency declaration in BMA (23-03-21)*

*- Our goals -*

**-55% GHG reduction** by 2030

**Carbon neutrality** in 2050

**Early adaptation**

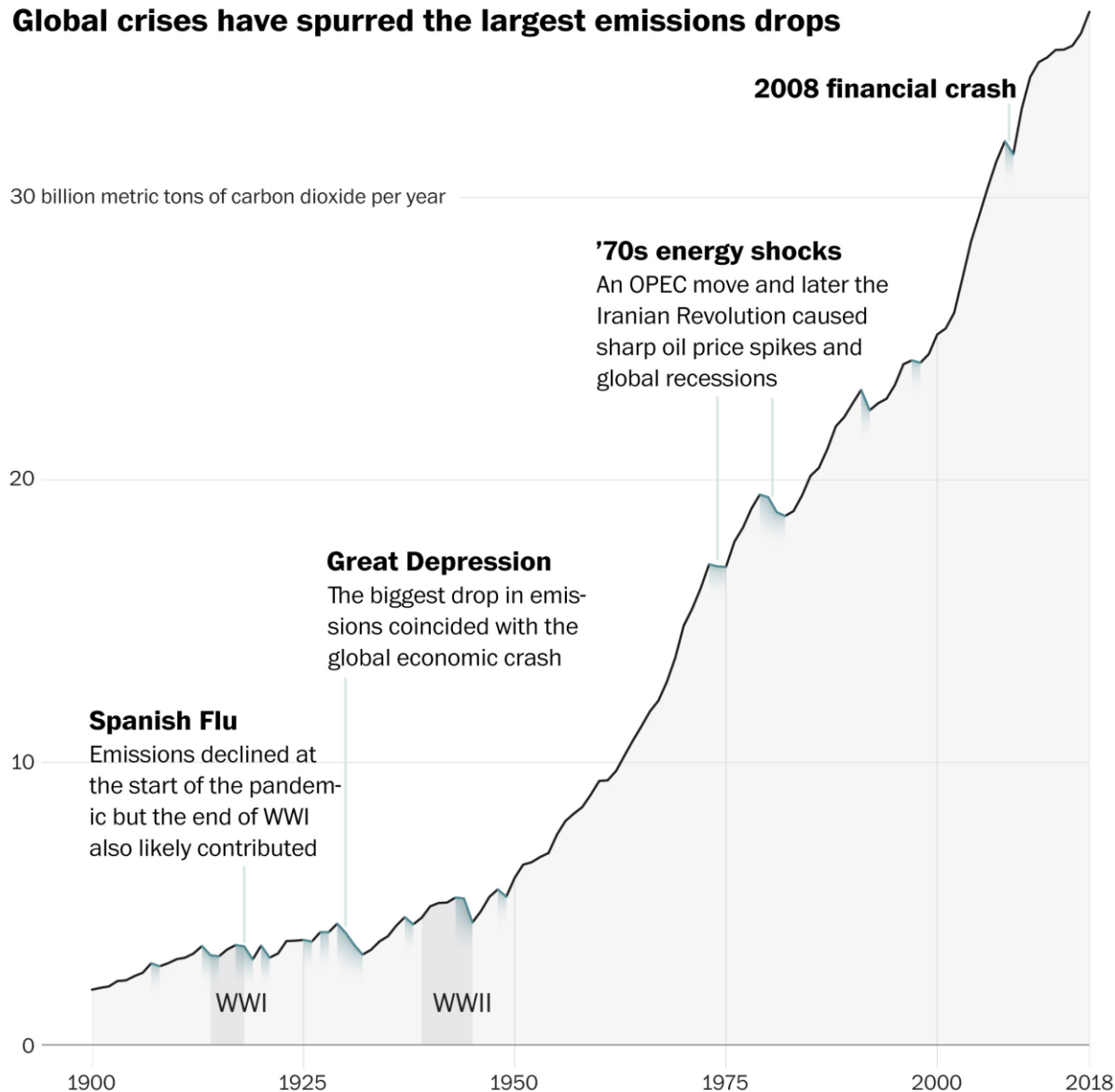


# ***CHALLENGES DURING COVID19 PANDEMIC***



# COVID pandemic: CO<sub>2</sub> emissions

## Global crises have spurred the largest emissions drops



Source: Global Carbon Project

It is estimated that emissions **could fall by 4-5% in 2020** (*Carbon Brief*), the biggest fall after financial crash 2008 (-1,4%)

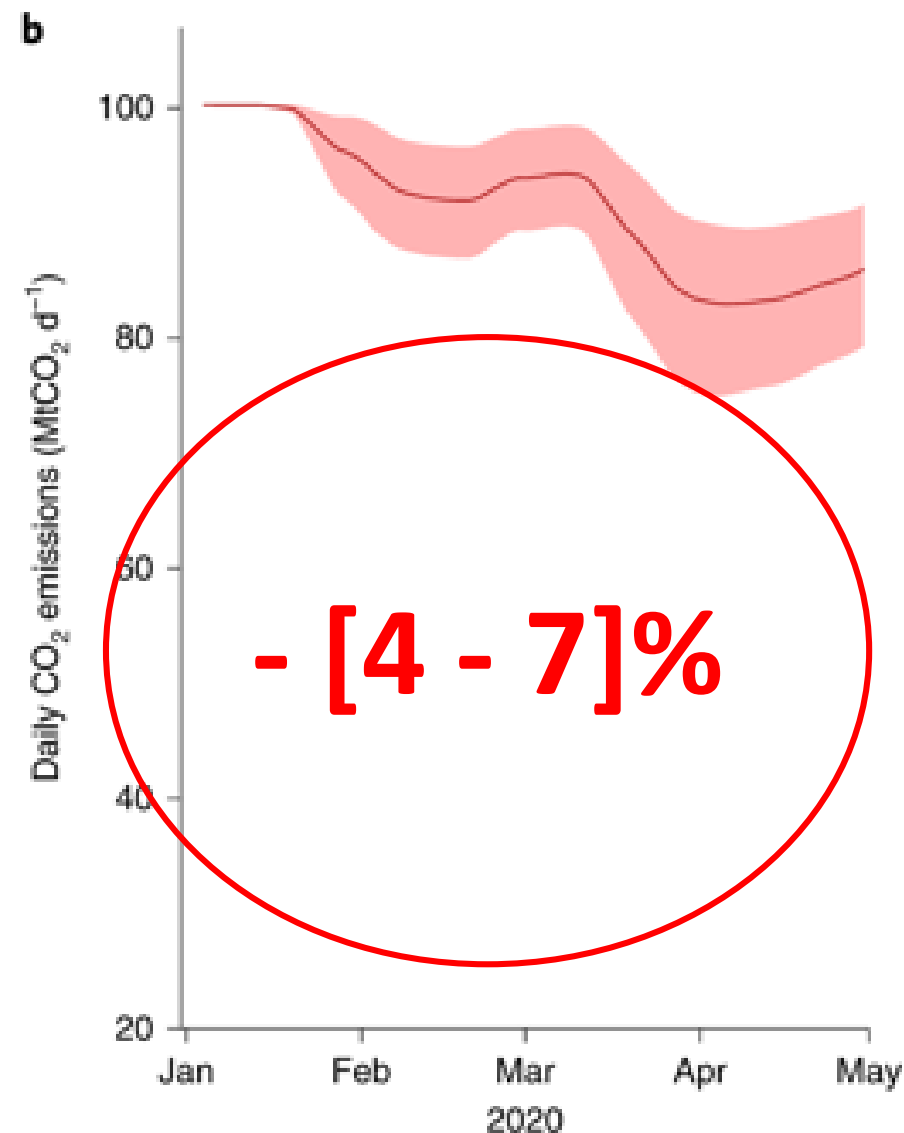
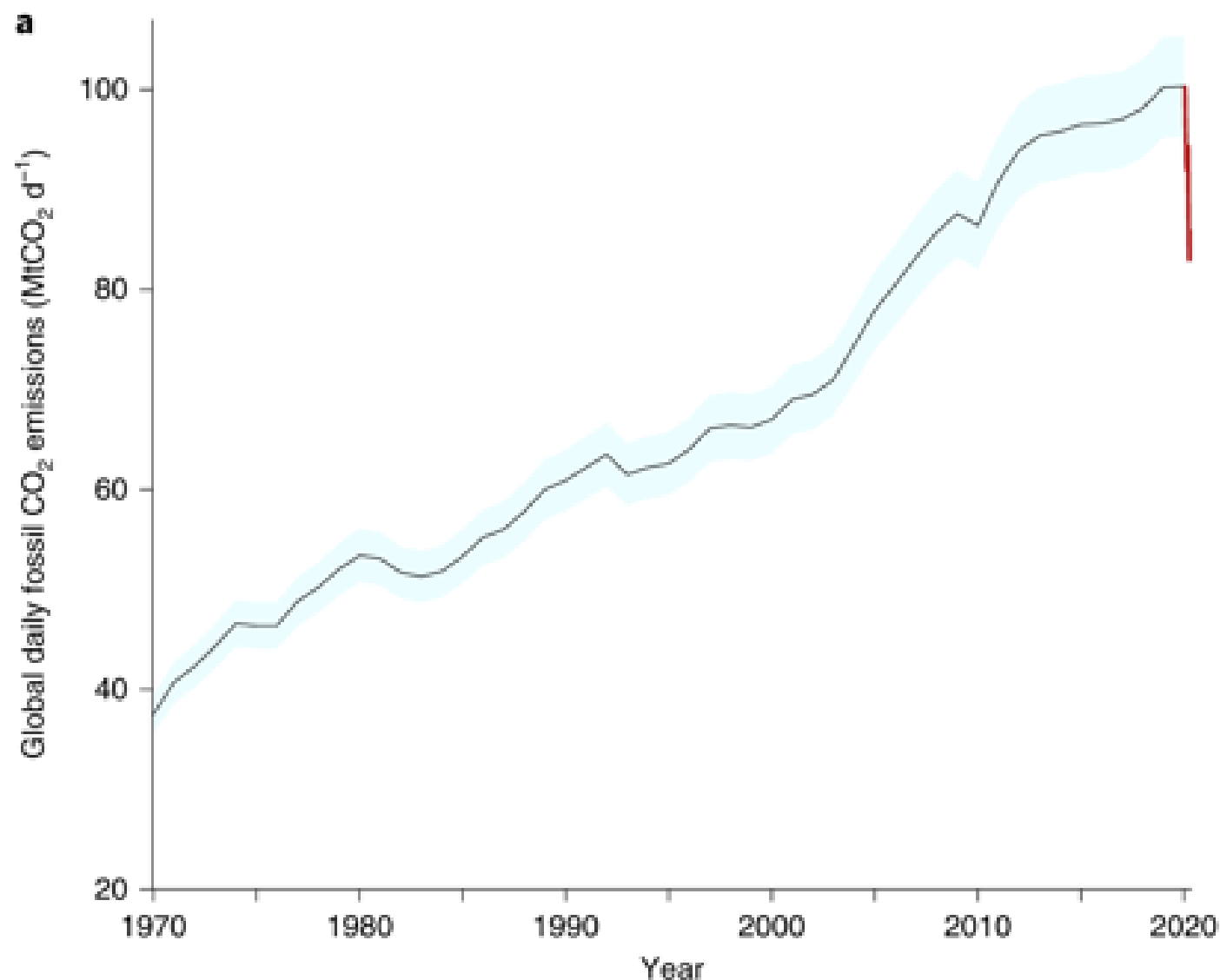
Emissions **would have to be reduced by 7.6% each year** between 2020 and 2030 to achieve Paris agreement.

COVID pandemic **will not be enough** to change CO<sub>2</sub> trend and avoid the catastrophic scenario of warming above 1.5°C.

The fall means only a reduction of **0.01 degrees Celsius** in global warming by 2050, so the world is still heading relentlessly to an increase of +3°C by the ending of this century.

We need a **low-carbon recovery** post pandemic: it could reduce expected GHG by 25% by 2030.

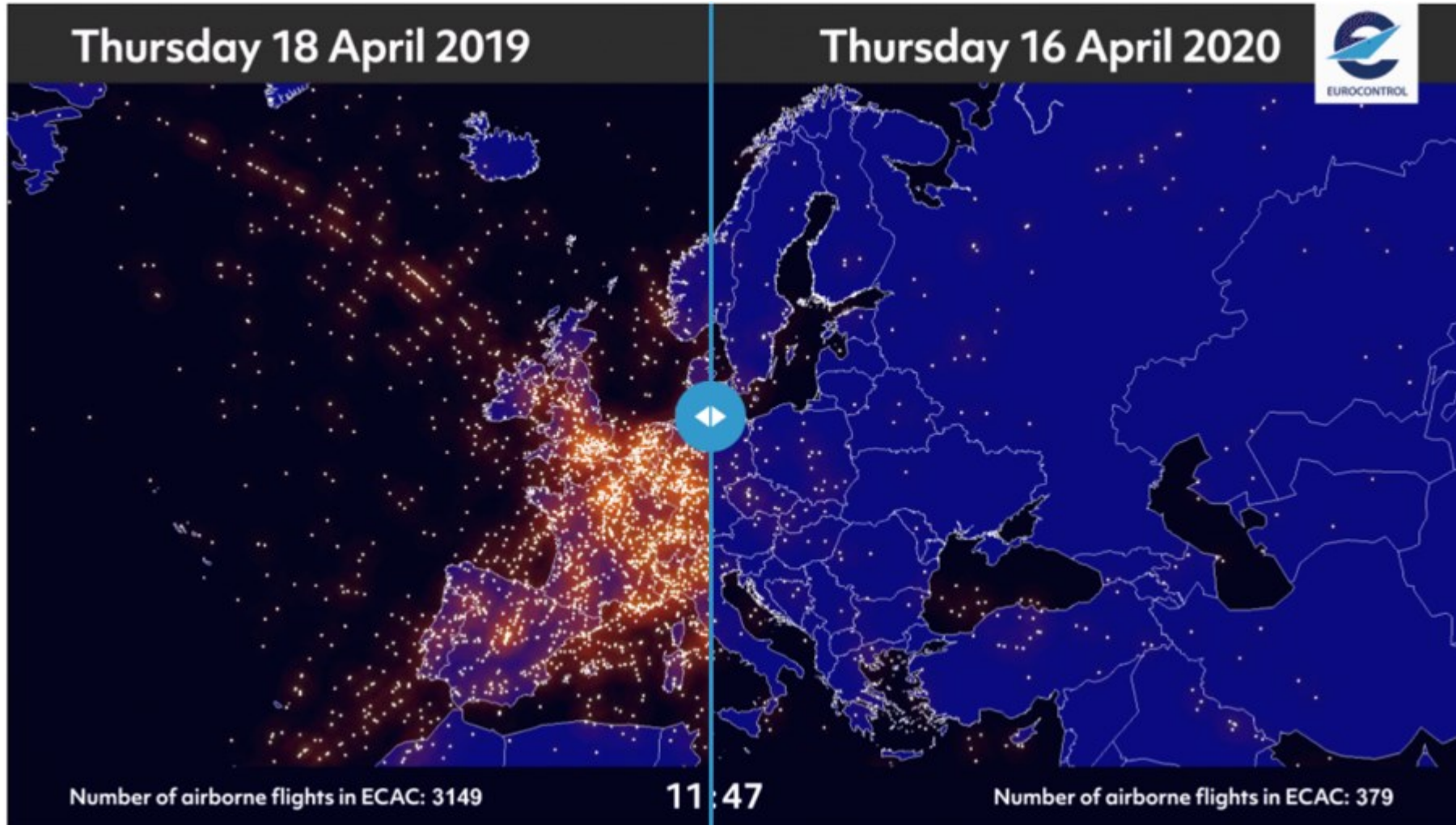
# COVID pandemic: CO<sub>2</sub> emissions



# COVID pandemic: traffic and air pollution

Amazing change in aviation traffic. March '19 vs '20  
(Eurocontrol Air Traffic 2020 vs 2019. Business traveller)

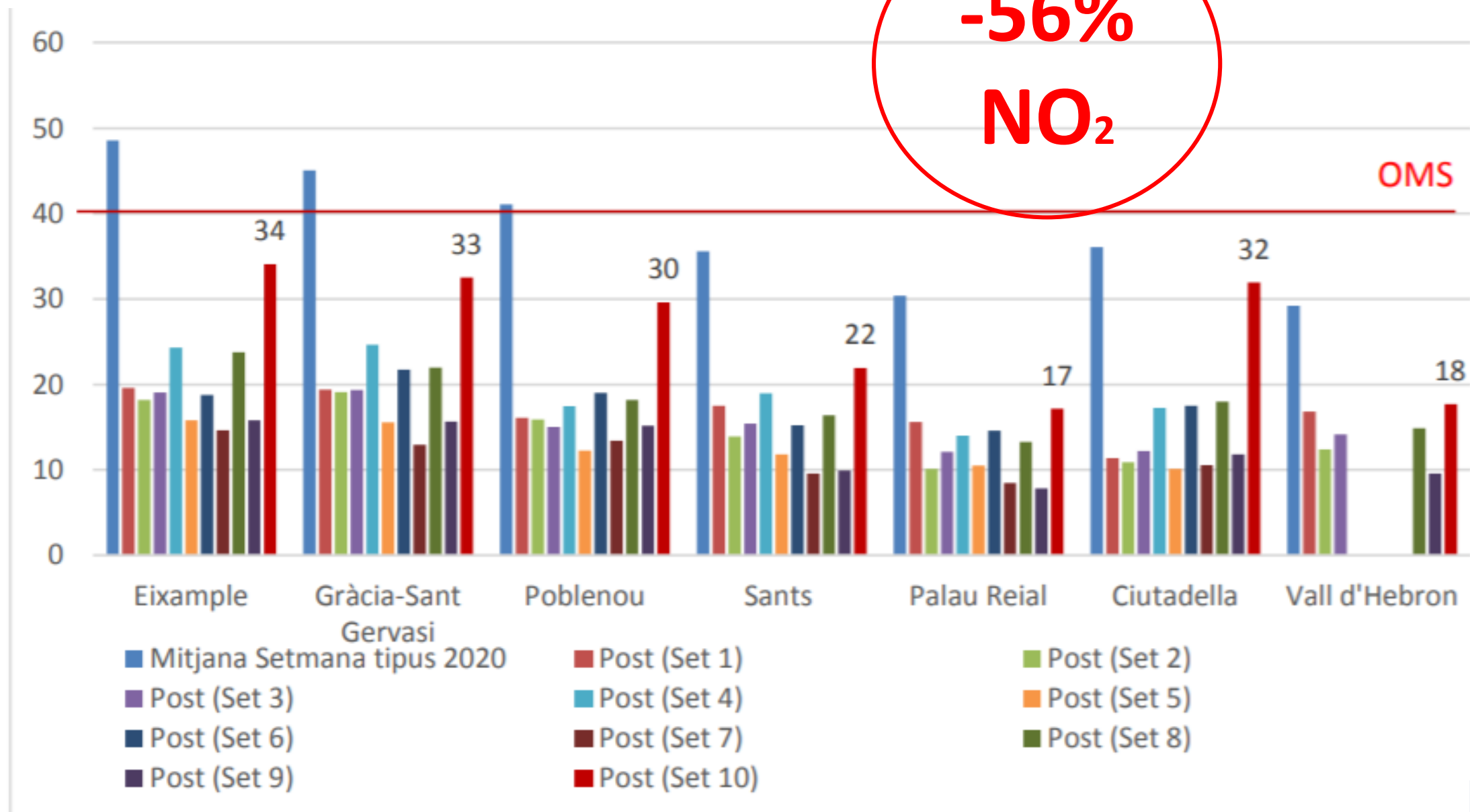
[https://youtu.be/MMnk\\_PmdcUw](https://youtu.be/MMnk_PmdcUw)



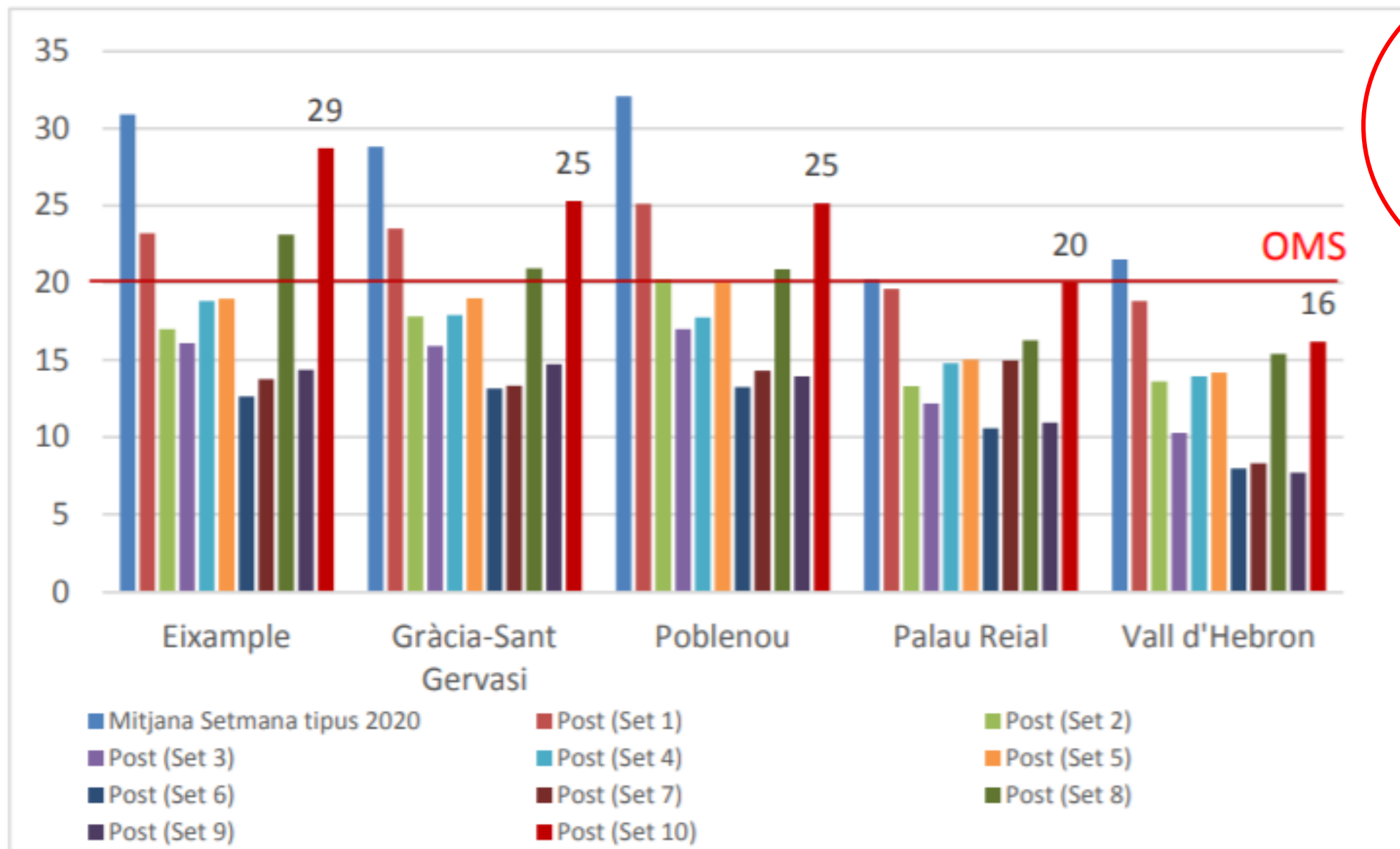
Interactive air pollution in Europe:

<https://european-data-portal.interactive.gitlab.io/covid-19/AirpollutionVisual.html>

# COVID pandemic : air quality

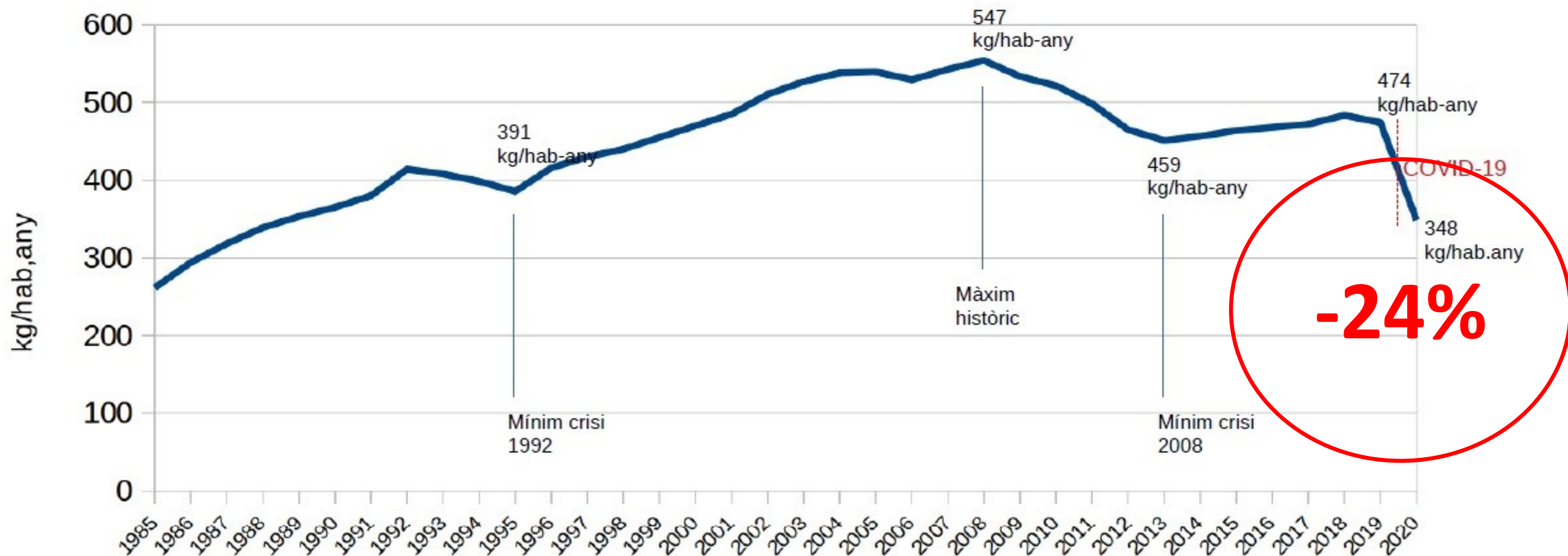


# COVID pandemic : air quality



**-35%**  
**PM<sub>10</sub>**

# COVID pandemic : waste generation





# COVID pandemic : waste generation

## DISMINUCIÓ DE RESIDUS

Durant l'estat d'alarma per la COVID-19, es generen menys residus a la metròpolis de Barcelona



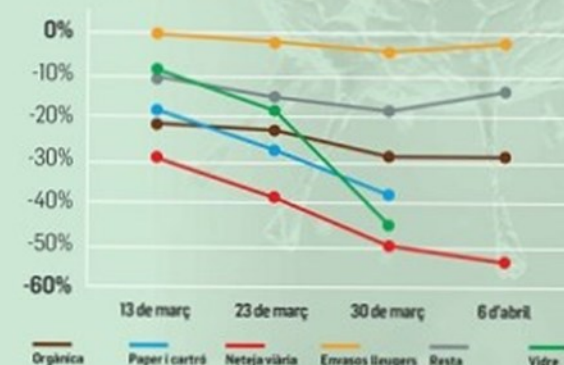
### Reducció mitjana a l'AMB



### Evolució de la generació de residus

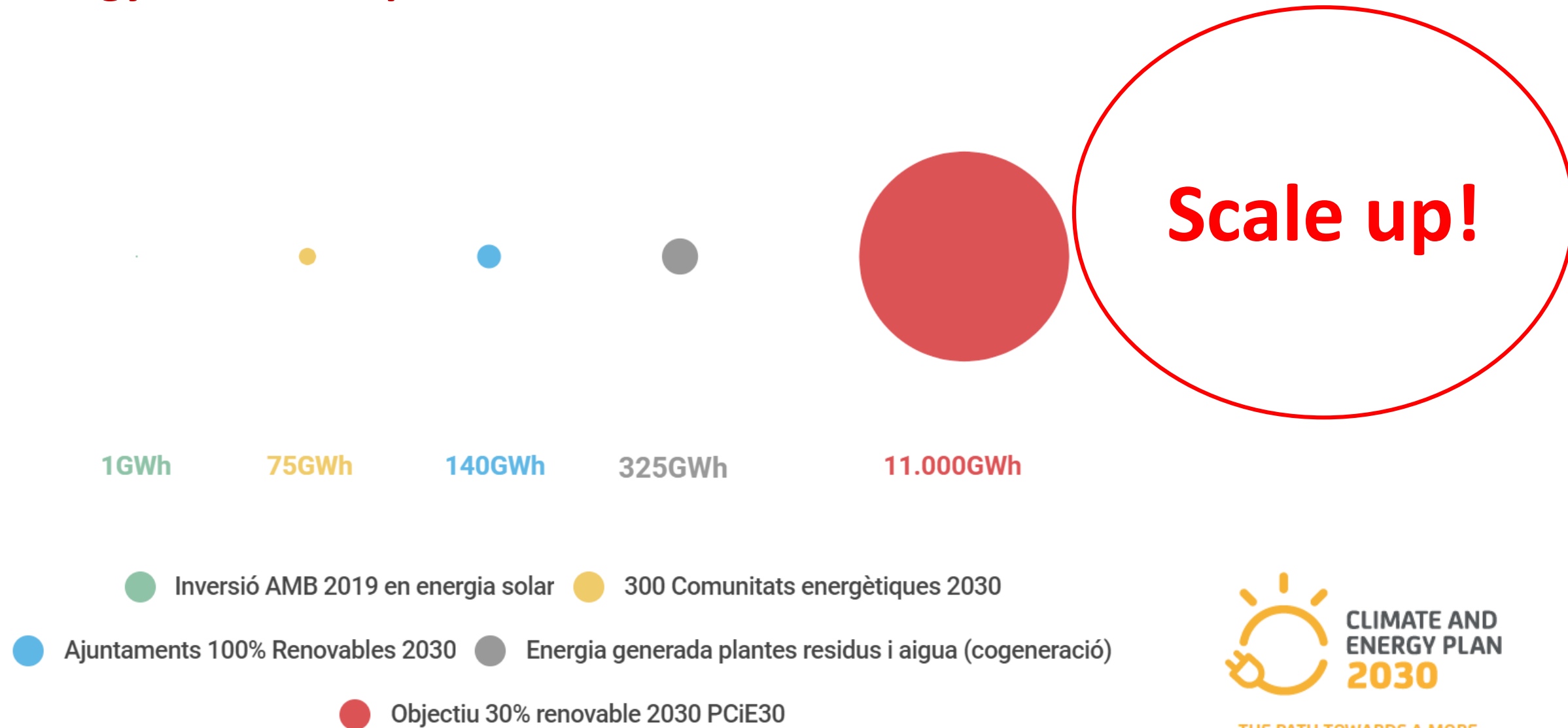


### Del 13 de març al 12 d'abril



***LESSONS LEARNT.. OR NOT!***

## *Energy transition path*



# Bcn City Council Superblocks

## Tactical urbanism

How to **humanize our metropolis** by making the city more sustainable while gaining space for citizens and avoid traffic passing through the streets

Source: <https://www.metropolis.org/news/tactical-urbanism-or-how-humanize-our-metropolises>





# *Green new deal and mobility*

## **21 measures for a new metropolitan mobility:**

4 strategic actions which comprises 21 measures

- **A1:** more bikes, bike lanes and more space for pedestrians
- **A2:** public transport recovery as an essential service
- **A3:** new mobility deal for job mobility
- **A4:** air quality and health (needs to be addressed as a joint venture with the municipalities)



<http://www.amb.cat/ca/web/mobilitat/actualitat/noticies/detall/-/noticia/nova-mobilitat-metropolitana/9234040/11704>

# ***Green new deal and environmental education***

- Harness of what we experienced
- Focus: health, self-sufficiency
- Public and open spaces
- Scale up: RE, local consumption, silence, wildlife
- CHANGE WAY OF LIFE (decreasing?)
- Language/words are important:

***COVID is not an opportunity!***

***But we can learn/improve/change (prevention-early adaptation)***



<http://www.amb.cat/web/area-metropolitana/covid19/educacio-ambiental>



# What do BMA want to get from Next Generation funds?

Projects for a total of **2.717 M€** → Digitalization of services and ecological and energy transition in the territory.

BMA's Next Generation metropolitan programs include a total of 11 projects with 34 actions aligned with Next Generation EU goals. Mainly two:

- 1. Investment program and support for the digital transition  
(investment of 134.39M€)*
- 2. Metropolitan Program for energy and ecological transition  
(endowment of 2,582.39 M€)*

Main scopes of action of the Ecological transition:

- *Green infrastructure and nature based solutions*
- *Decent, affordable and sustainable housing*
- *Sustainable mobility*
- *Circular economy / from waste to resource*
- *Water, vital resource*
- *Renewable energies*







Photovoltaic charging points for electric cars



Coast and beach management



Environmental awareness activities

**A management vision...  
concrete climate actions**



Network of climate shelters (public parks 2021)



Biosolar roofs in study (photovoltaic + green)



*Some final thoughts...*

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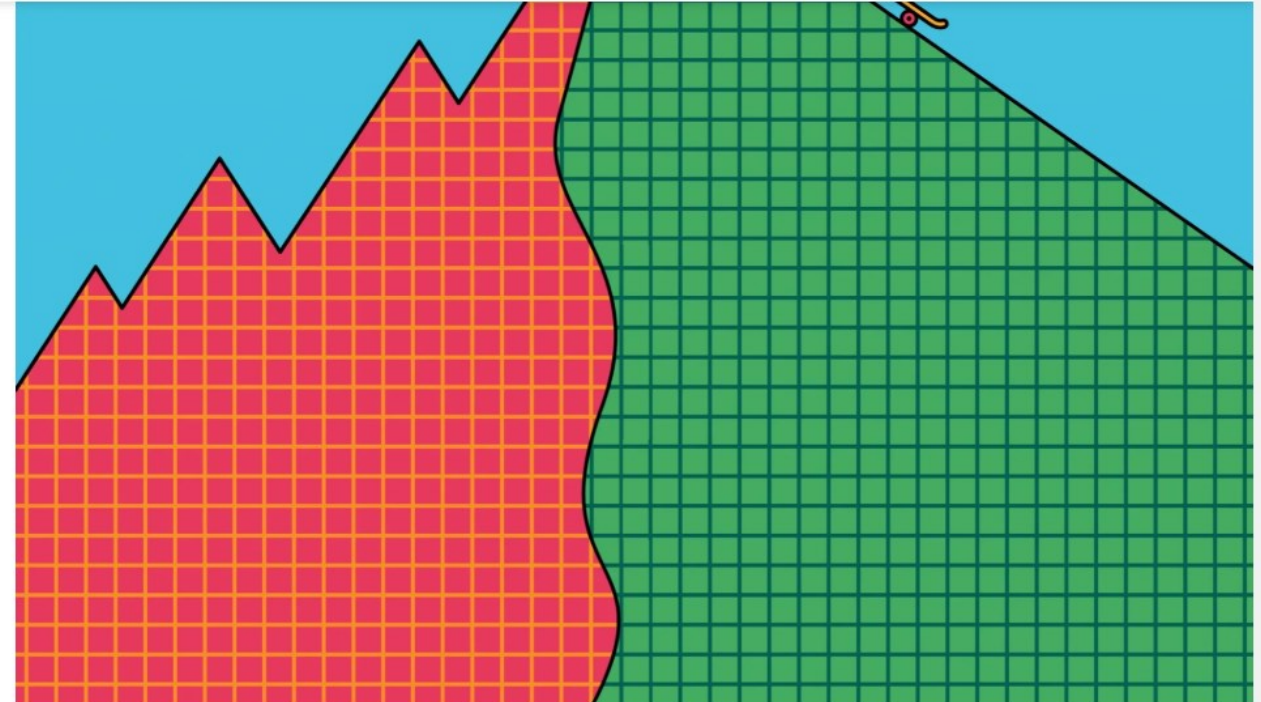
Goings On

# CAN WE HAVE PROSPERITY WITHOUT GROWTH?

*The critique of economic growth, once a fringe position, is  
gaining widespread attention in the face of the climate crisis.*

By John Cassidy

February 3, 2020



<https://www.newyorker.com/magazine/2020/02/10/can-we-have-prosperity-without-growth>

# Thanks!



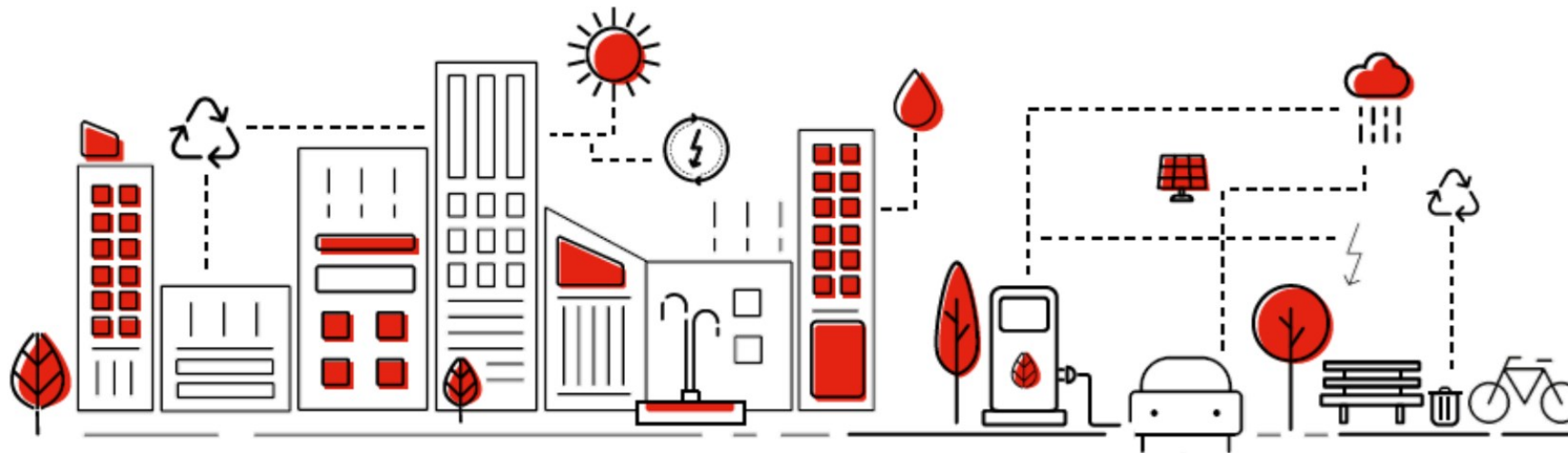
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