

LIFE15 CCA/ES/000102 ' "This project has been funded with support from the European Commission"

# Impacts of climate change

The evidence The effects The priorities Action The impacts of climate change pose a threat to the welfare and health of people, heritage, economic activities, urban and natural systems.

Today, territories, production systems and social fabrics do not meet the right conditions to keep their functions in the light of the new climate situation. At the same time, public services and economic and social activities in these territories are very vulnerable.

Society will face a global climate alert:

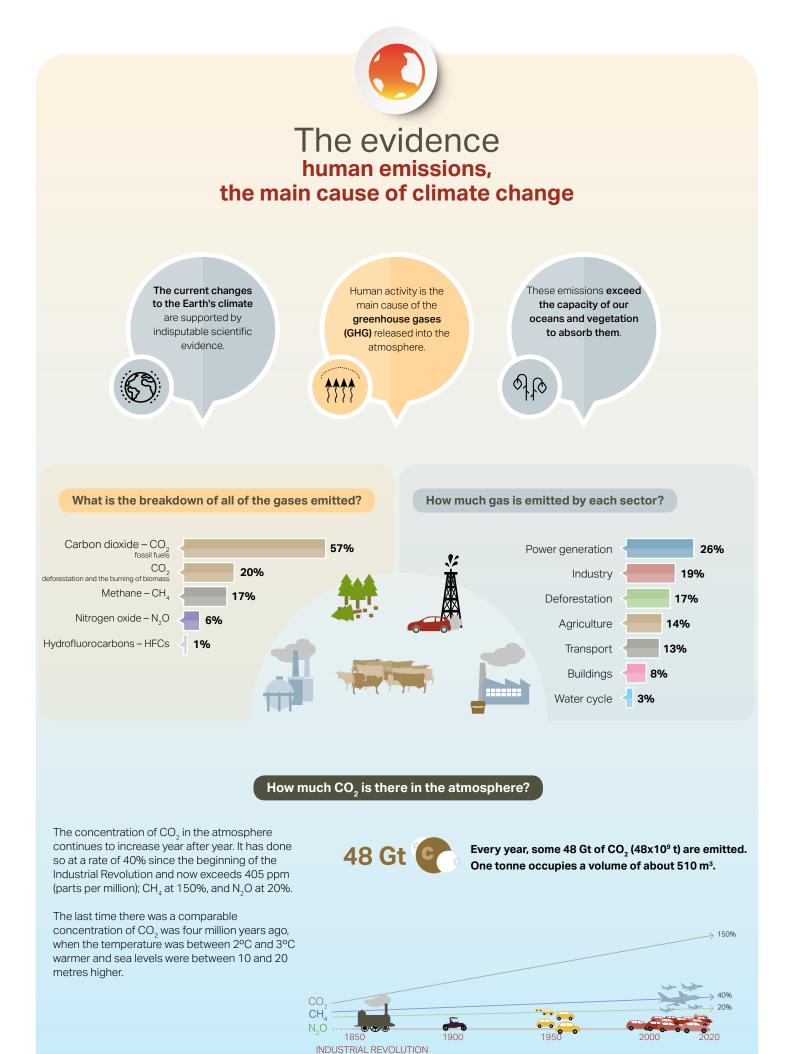
- Increasing minimum and maximum temperatures, sunshine, heatwaves and tropical nights.
- Increasingly intense and frequent droughts.
- Higher risk of large forest fires.
- © Increase in sea level, posing a threat to coastal and delta areas.
- Loss of biodiversity and biological integrity.
- Extreme rainfall episodes.
- © Emergence of new diseases or resurgence of diseases that were considered extinct.

Adaptation is the main resource for agents acting in the territory to reduce vulnerability – this takes the form of strategies, action plans and governance processes.

All agents – governing bodies, companies of goods and services, workers, farmers and citizens – sharing a territory with management capacity have the potential to deal with the risks of climate change through joint actions for adaptation.

The Life Clinomics project initiates new investment processes for both public bodies and private companies to reduce vulnerability, anticipate climate impacts and increase resilience in three territories – the Montseny biosphere reserve, the region of Alt Penedès and the Terres de l'Ebre biosphere reserve – and in three economic sectors: fishing, agroforestry and tourism.







Global warming affects the natural systems, biodiversity and the cycle of the species, and also the health and quality of life for people throughout the globe, though the effects are felt differently depending on the climatic region. How is the temperature of the Earth increasing?

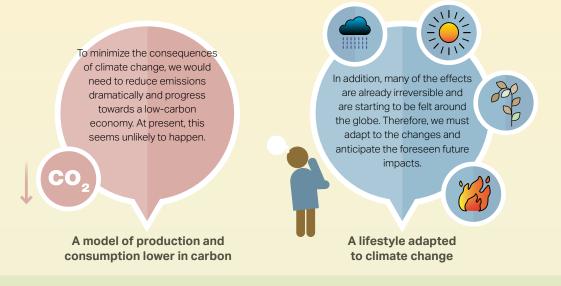


Southern Europe has a wide range of types and varieties of Mediterranean climates, as well as Atlantic and continental climates. Such climatic wealth and complexity makes it difficult to establish detailed trends and forecasts, especially for Catalonia.

In any case, during the 21st century, the temperature could rise between 0.3 and 4.8°C, and precipitation may decrease by about 10%. Tropical nights and days (climatic extremes) will be frequent, as will periods without precipitation.



# The priorities reduce emissions, but also adapt to the changes

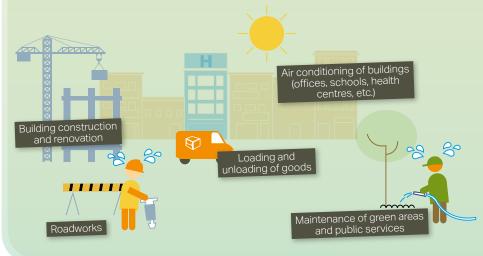


#### All human activities are susceptible to climate change

Most human and economic activities will be affected by climate change, but especially those conducted in the open air and those related to the primary sector, tourism and leisure.



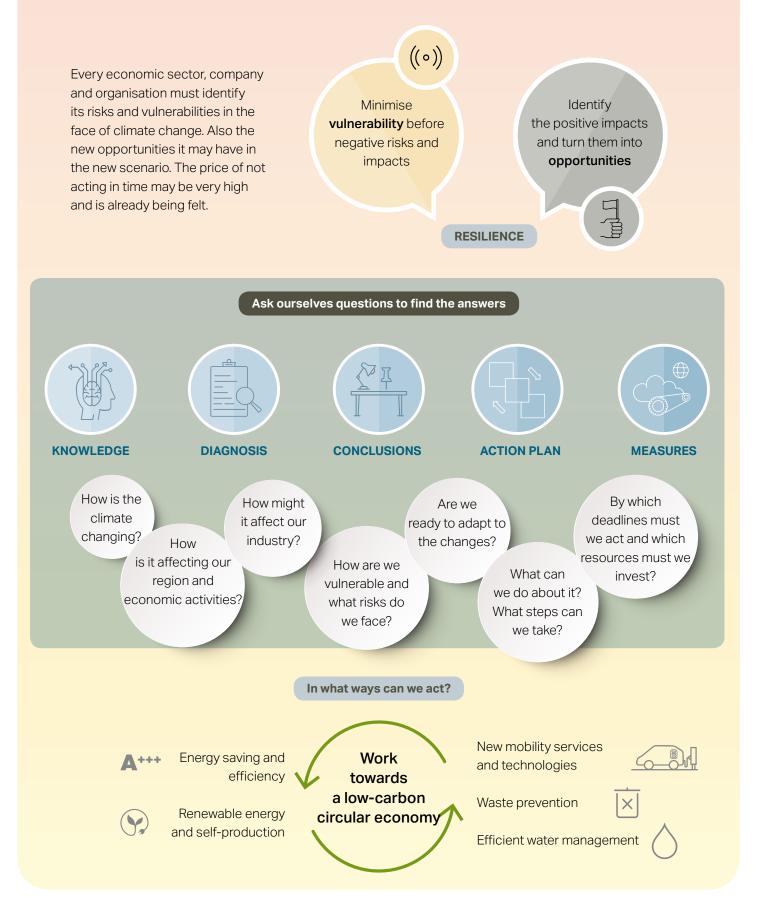




Higher temperatures and heat waves will also affect other activities, both outdoors and indoors, and especially in the cities, due to the heat island effect.



# Action be aware of the vulnerabilities, tackle the challenges and seize the opportunities





#### Third report on Climate Change in Catalonia

#### **Government of Catalonia. 2016**

http://cads.gencat.cat/web/.content/Documents/Publicacions/tercer-informe-sobre-canviclimatic-catalunya/TERCER\_INFORME\_CANVI\_CLIMATIC\_web.pdf

### The Climate Change

Catalan Office for Climate Change. Government of Catalonia http://canviclimatic.gencat.cat/ca/inici

## **Reports IPCC**

Intergovernmental Panel on Climate Change Reports https://www.ipcc.ch/reports/

## **Climate Action**

European Commission https://ec.europa.eu/clima/change



Website: www.lifeclinomics.eu

Life Clinomics Events: www.lifeclinomics.eu/ca/category/agenda

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