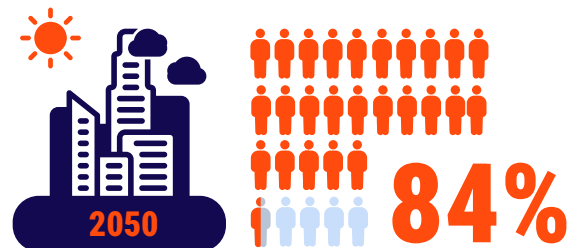
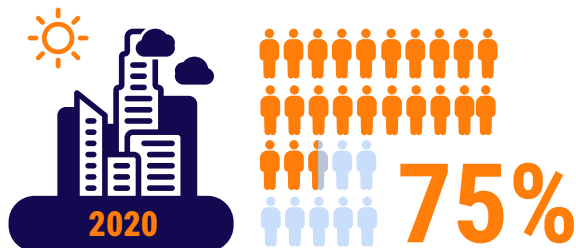




Managing EU cities to be fit for the future

The **urbanization rate** in the EU is expected to **increase**:



The main impacts of climate change on urban areas in the EU relate to **increasing**:



heat stress



flood events

Annual fatalities from **extreme heat** by 2050 under different global warming scenarios:



+1.5°C



+30,000 fatalities



+2.0°C



+50,000 fatalities

EU cities can be up to **+9°C warmer** than vegetated surroundings due to the **urban heat island** effect.



Climate impacts disproportionately affect **vulnerable populations** (elderly, low-income, and marginalized communities) and **less developed** populations.

Understanding the risks and getting prepared with tailored adaptation measures can **reduce**:



economic costs



inequalities

CMCC research shows that building sustainable, resilient, and inclusive cities requires tailored solutions for urban adaptation. We deliver data, analysis, and tools to support evidence-based decision-making.

CMCC - From science to policy and decisions



Advanced modeling and high-resolution risk mapping

- **We offer** high-resolution climate projections and support regional and local adaptation.
- **We transform** high spatial resolution data (≈ 2.2 km) into tailored information, climate services, and decision support tools through the [Dataclime platform](#).
- **We visualize** temperature changes in EU cities creating tailored [climate stripes](#).
- **We use** [Artificial Intelligence](#) and [Machine Learning](#) to improve climate risk assessment.
- **We assess** the [economic](#) and [health costs](#) of climate impacts on cities.



Evidence-based public policy action

- **We integrate** urban and environmental planning, and attention to [social equity](#).
- **We co-create** solutions and tools to [support decision-making](#) in local adaptation.
- **We research** and test methodologies to [engage citizens and communities](#) in climate action.
- **We simulate** expected urban temperature change based on [urban planning](#) choices and solutions.
- **We partner** with public administrations to assess and improve the climate resilience of cities and [public properties](#).

**Further readings
on CMCC works
on climate
change adaptation**



**More information
on the
CMCC Foundation**



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