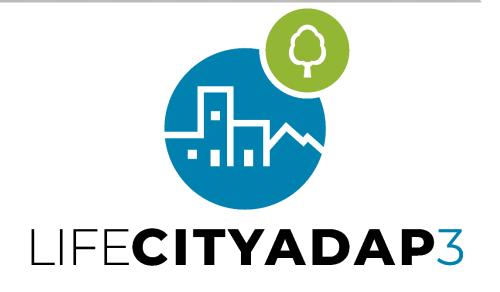


## How can we adapt our cities to climate change?

















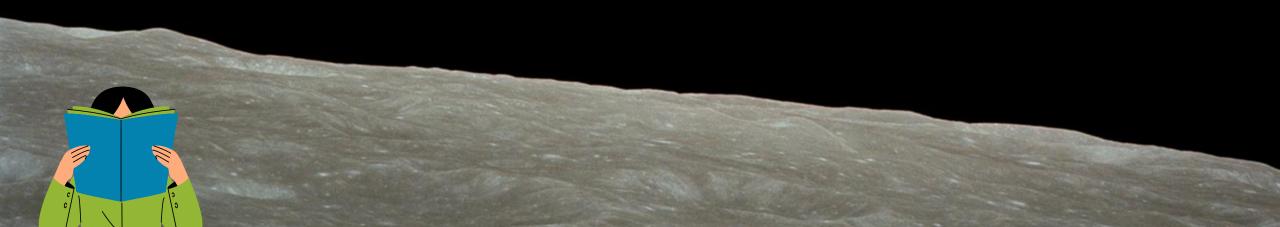


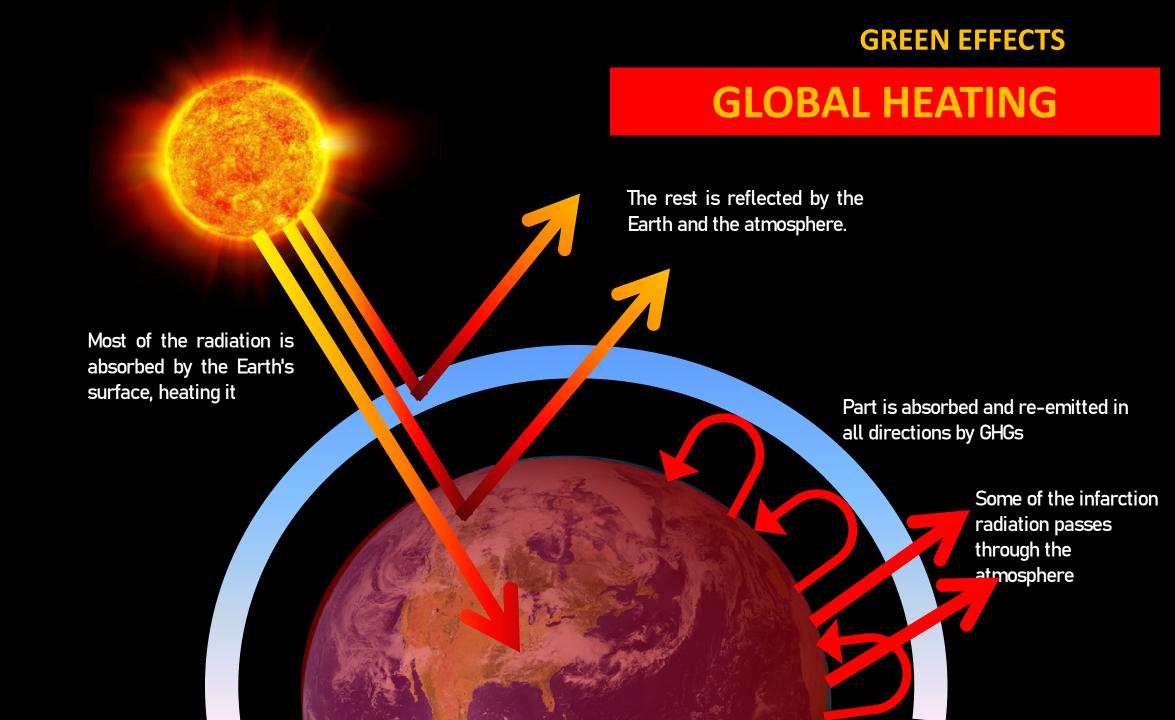


#### **GLOBAL PROBLEM**

THE GREATEST CHALLENGE TO WHICH HUMANITY FACES IN ALL ITS HISTORY





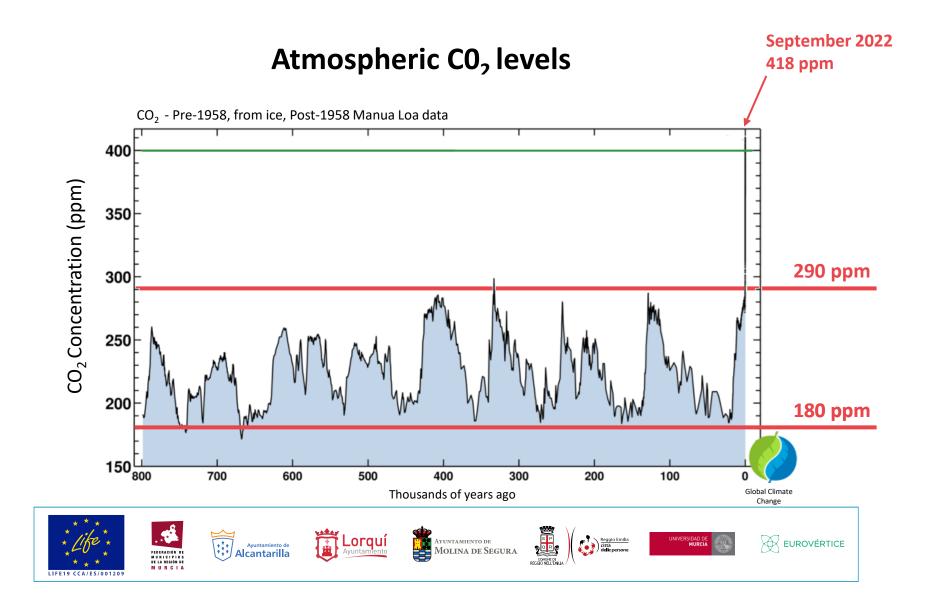






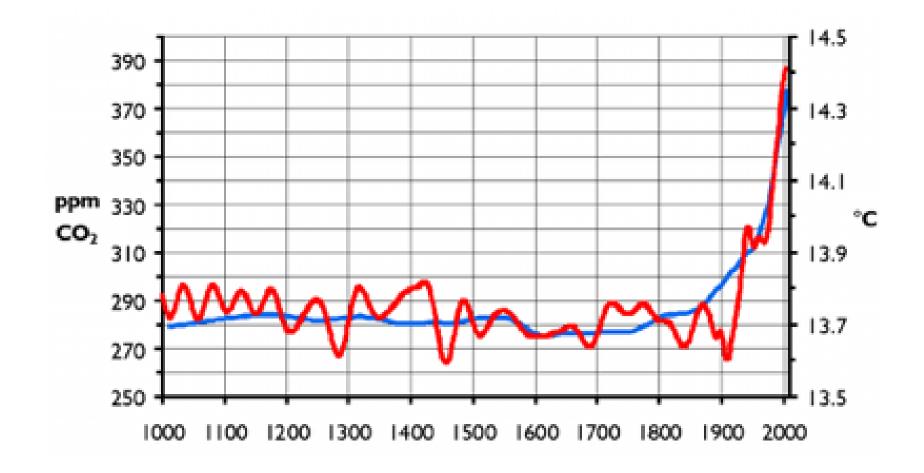


#### Climate change (CC)





#### Climate change (CC)

















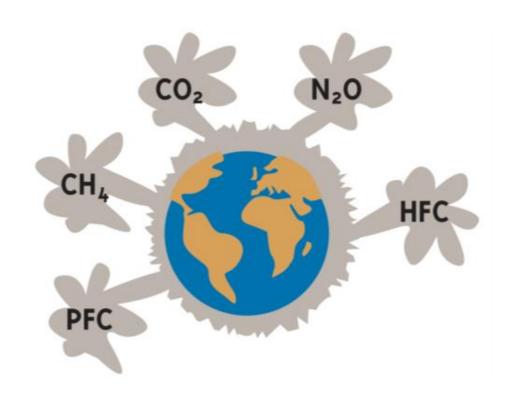






#### Greenhouse gases (GHGs)

- Carbon dioxide (CO2)
- Methane  $(CH_4)$
- Nitrous oxide (N<sub>2</sub>0)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulphur hexafluoride (SF<sub>6</sub>)























#### Impacts of energy use



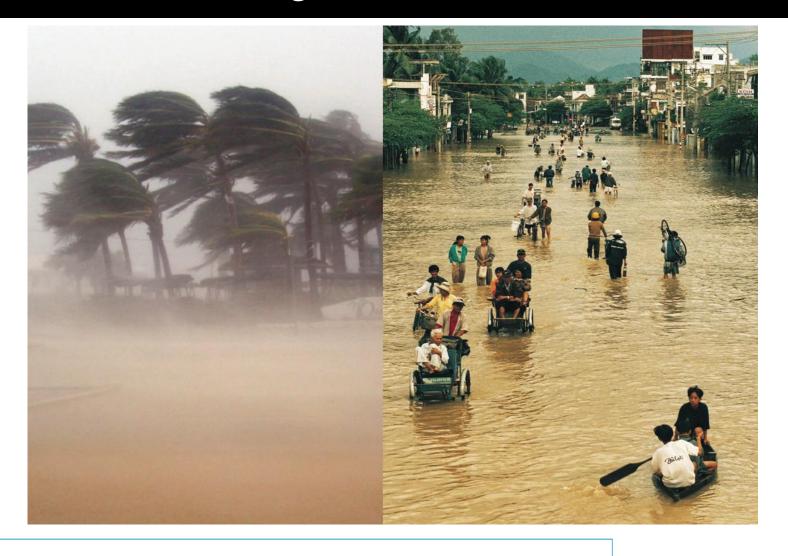




#### Evidence of climate change



























#### Evidence of climate change























## Evidence of climate change























#### A fast-moving process















#### Paris CC Conference (COP21)





















#### Paris CC Conference (COP21)

#### Agreement:

Preventing a climate change that was expected to be dangerous by means of a global action plan limiting the increase in the global temperature of the planet to 1,5°C (2°C maximum) above pre-industrial levels.























#### Physical consequences

- Increase in temperatures
- Sea level rise
- Water scarcity, drought and desertification
- Floods
- Food shortages
- Extreme weather events

















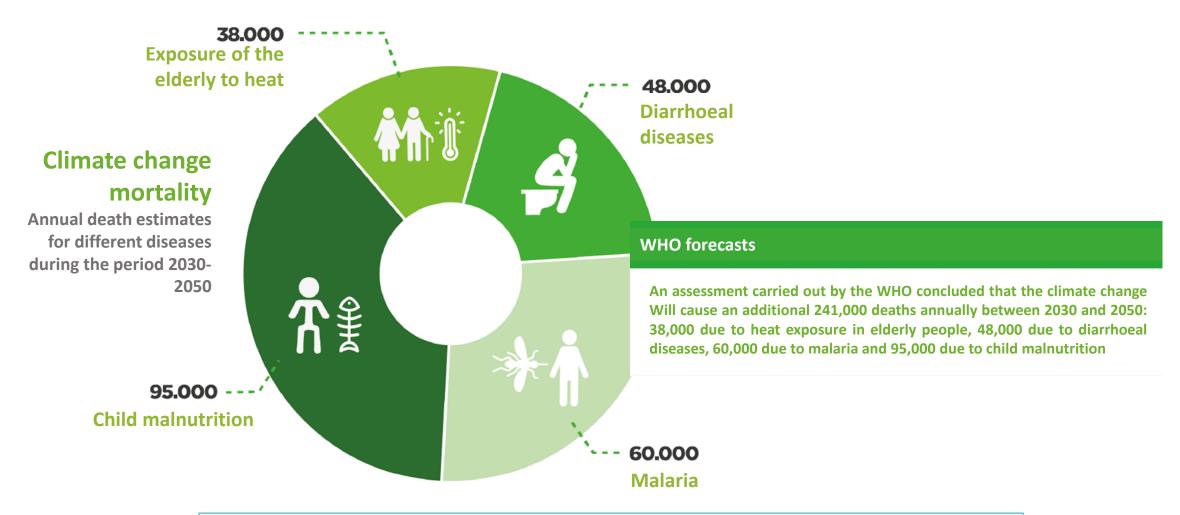








#### Health implications























#### Combating climate change





#### MITIGATION TAKES UP THE CAUSES OF CLIMATE CHANGE AND ADAPTING THEIR IMPACTS



















#### Climate change mitigation

#### Actions to reduce and limit GHG emissions



ELECTRIFICATION OF INDUSTRIAL PROCESSES



EFFICIENT TRANSPORT (ELECTRIC PUBLIC TRANSPORT, BICYCLES, ETC)































#### Adaptation to climate change

#### Actions to reduce vulnerability to CC



**SAFER LOCATIONS** OF FACILITIES AND **INFRASTRUCTURE WORKS** 



**LANDSCAPE RESTORATION AND REFORESTATION** (FORESTS)



**RESEARCH AND DEVELOPMENT** ON POTENTIAL DISASTERS, **TEMPERATURE** BEHAVIOR, ETC.



**FLEXIBLE AND DIVERSE FARMING TO BE** PREPARED FOR **NATURAL DISASTERS** 



PREVENTIVE AND **PRECAUTIONARY MEASURES** (EVACUATION PLANS, **HEALTH ISSUES, ETC.)** 



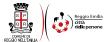


















# global ocal



#### Local initiatives. The Covenant of Mayors







Action Plan for Climate and Sustainable Energy (PACES)

#### **ATTENUATION**

Accelerate the decarbonisation ofour territories

#### **ADAPTATION**

Strengthen our capacity to adapt to the inevitable impacts of climate change

SAFE, SUSTAINABLE AND AFFORDABLE ENERGY

Increase energy efficiency and the use of renewable energy

Collaborate towards a shared vision for 2050





















# The importance of COLLABORATION

It's a challenge for everyone



















#### The LIFE CityAdaP3 project

Local Adaptation to Climate Change through Public-Private Collaboration and Corporate Social Responsibility

Improving adaptation to climate change in the urban environment, making use of financing schemes based on a public-private partnership with the participation of local companies

Implement Local
Adaptation Plans
(PACES) under the
Covenant of Mayors
for Climate and
Energy





















#### Combating CC through LIFE CITYAdaP3



Multimodal platform (pedestrian and cyclist) adapted to climate change



Ecological and multipurpose building. Adapted urban park. Adapted urban path



Consolidation and enhancement of urban heads



Climate friendly parks. Urban reforestation in 4 parks











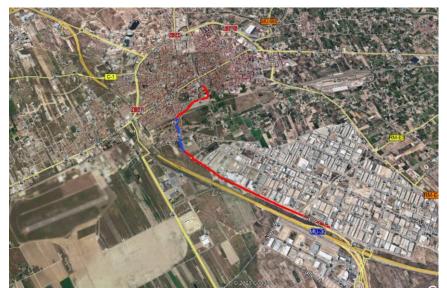








#### Pilot action in Sewer



- Priority axis
- Built platform

























## Pilot action in Lorqui



























### Pilot action in Molina de Segura























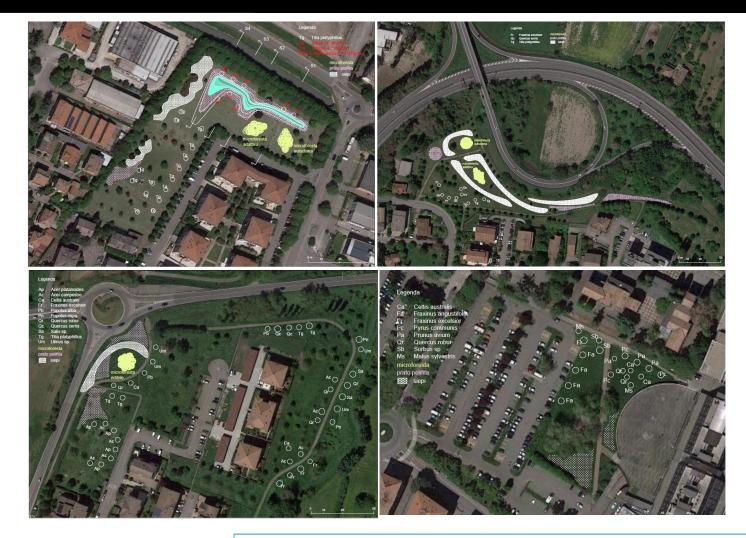


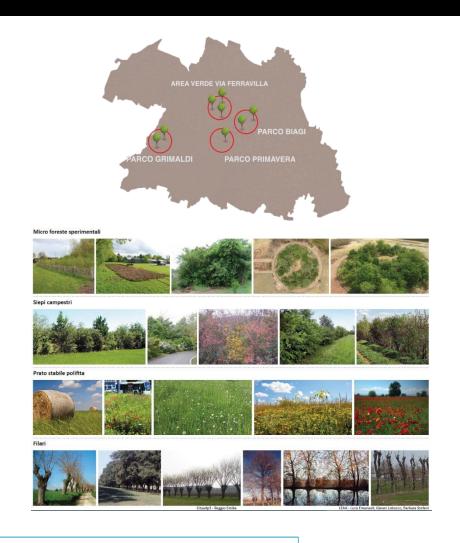






## Pilot action in Reggio Emilia























#### Now that you know the importance...

#### **HOW CAN YOU CONTRIBUTE?**

Mitigate at home, collaborate locally and share your learning





















#### Conclusion

## Together for a better future



















