

"Climate-friendly" parks



LIFE **CITYADAP3**

Reggio Emilia
(Italy)

Over 73,500 €

2021 - 2022

PRIVATE COMANIES INVOLVED



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1

Contribute to **the adaptation of climate change in urban and peri-urban areas** in particular by acting on vulnerability to heat islands

4

Improve the usability of the services and equipment present in the areas by citizens (paths, children's games, etc)

MAIN OBJECTIVES

2

Mitigate the microclimate of the four green areas involved in the intervention

5

Improve the design and management of parks-green areas, in terms of sustainability, maintenance and adaptation to climate change

3

Experiment with "adaptive" criteria for public parks by introducing four different "environmental devices"

6

Define an "adaptive" park design model that can be replicated in other areas while respecting territorial and landscape diversity, and to be proposed at a European level

CLIMATE RISKS ADDRESSED

(according to the Climate Change Adaption strategy Reggio Emilia)

- **Heat waves in the urban area**
- **Summer drought and water shortage**

To request the full technical document on the design of this pilot action, please send an email to lifecityadap3@fmrn.es

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DESCRIPTION OF THE ACTION

Implementation of **experimental urban forestry interventions** according to **adaptive criteria** in 4 public parks in different areas of the city with territorial and landscape diversity. On the basis of this design experience, a **model scheme** - adaptive park model will be defined. In this way, Reggio Emilia will counteract **heat islands** and improve the **usability-livability** of these areas by the citizens, extending the shaded areas and restoring a high degree of naturalness through the increase of biodiversity.

The concept is based on testing the effectiveness of four landscape-environmental "devices" to counteract the effects of climate change:

- **Micro forests:** based on the assumption of the so-called "Miyawaki method" divided into 3 types of forest, which differ in the combination of plant species that are alternatively planted: autochthonous micro-forest, adaptive micro-forest, edible micro-forest.
- **Rural hedges:** aim to recover and update the function of the rural hedgerow, one of the characteristic elements of the agricultural-rural landscape of the area.
- **Polyphyte lawn:** combination of several fodder crops grown on the area. Traditional and important element of the landscape and the economy of Emilian territory.
- **Rows of trees :** to shade the areas near pedestrian paths, children games etc.

IMPACTS (Results from monitoring)

You can consult in real time the data on temperature, rain and moisture in Biagi Park under this link:

<http://cbec.ectoss.com:88/?display=Parco%20Biagi>

We will analyse the benefits of the parks at the local level in the near future.

For more information about the "Climate-friendly" parks :
www.comune.re.it/cityadap3