PROJECT BACKGROUND

Cities and towns, with their high population densities, their large number of poor and elderly residents as well as their dependence on critical infrastructure and networks, are extremely vulnerable to the impacts of climate change with consequences for public health, water availability and quality, energy consumption and essential infrastructure.

Although climate change projections have been made at national level for many countries there is not enough information available to assess climate change impacts at local level. The availability of appropriate frameworks and tools would help municipalities deliver better informed decision-making as well as develop their urban adaptation strategies

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THE PROJECT IS IMPLEMENTED BY:

Συντονιστής:
Department of Environment,
Ministry of Agriculture, Rural Development and Environment
www.moa.gov.cy/environment

National Technical University of Athens
www.ntua.gr

National Observatory of Athens
www.meteo.noa.gr

Università IUAV di Venezia
www.iuav.it

Municipality of Strovolos
www.strovolos.org.cy

Municipality of Lakatamia
www.lakatamia.org.cy

Municipality of Peristeri
www.peristeri.gr

Municipality of Reggio Emilia
www.municipio.re.it

INFORMATION:

+357 22 408948 info@urbanproof.eu
@EUrbanProof @EUrbanProof urbanproof.eu

LIFE UrbanProof - LIFE15 CCA/CY/000086
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Total project budget: 1,854,000 (60% EC funding)

lifeUrbanProof

LIFE15 CCA/CY/000086

CLIMATE PROOFING URBAN MUNICIPALITIES

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LIFE URBANPROOF
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URBAN MUNICIPALITIES

OBJECTIVES

The overall aim of the LIFE UrbanProof project is to increase the resilience of municipalities to climate change by equipping them with a powerful tool (UrbanProof toolkit) that supports their climate change adaptation planning.

The UrbanProof toolkit will:

- Provide insight into the expected changes in climate
- Enhance understanding of climate change impacts and the mechanisms defining vulnerability
- Enable the exploration and evaluation of available adaptation options
- Provide guidance for monitoring the adaptation process

URBANPROOF TOOLKIT:

A web-based decision support toolkit for adaptation planning

5 Stages for urban adaptation

Stage 1: Climate change
Exploring the current climate and the projected climate change

Stage 2: Vulnerability assessment
Vulnerability assessment at each of the climate change impact

Stage 3:
Assessment of adaptation measures
Assessment of adaptation measure with the use of Multi-Criteria Analysis

Stage 4:
Development of the adaptation strategy
Development of the adaptation strategy from the “high-scoring” measures

Stage 5: Monitoring and review
Monitoring and review the adaptation progress, adding new information

PILOT REGIONS

The project is implemented in 4 Municipalities in Cyprus, Greece and Italy. They are considered representative of climate change vulnerabilities that will face urban regions in Mediterranean, South and Central Europe.

Municipalities of Strovolos and Lakatamia - Cyprus
Very high summer temperatures which lead to increasing heat stress and thermal discomfort, decreased annual rainfall resulting in water scarcity, intense rainfall events increasing flood risk.

Municipality of Peristeri - Greece
Densely built and high populated municipality. The urban heat island effect is pronounced during summer. High risk area as regards human health exposure on heat waves and floods.

Municipality of Reggio Emilia - Italy
Decrease in annual winter precipitation, severe increase in intense flash flood events. High frequency of heat waves, intensification of urban heat island effect during summer