



About the project.

LIFE CAPT-TILE: transforming Urban Spaces with Green Technology

The project aims to revolutionize the adoption of **green roofs** and **vertical gardens** by addressing economic and maintenance barriers that limit their widespread use.

Our goal is to develop affordable, **easy-to-install**, and **low-maintenance solutions** for green architectural surfaces, making them accessible to everyone. The main innovation of the LIFE CAPT-TILE project lies in new clay tiles capable of hosting a layer of **“artificial soil”** to support plant growth.

This modular and lightweight system not only simplifies installation and maintenance but also allows CO₂ absorption from the atmosphere, contributing to the fight against climate change.

Case Studies.

CAPT-TILE Tiled Green Roofs



- **Location:** installed on urban residential buildings and public structures.
- **Features:** innovative clay tiles support plant growth, providing excellent insulation and aesthetic appeal.
- **Outcomes:** demonstrates reduced energy consumption, enhanced biodiversity, and improved air quality.

Objectives.



Enhance environmental sustainability

Develop solutions that contribute to the reduction of CO₂ levels and promote greener urban environments



Increase accessibility

Create affordable green roofing and façade systems that can be easily adopted in various socio-economic contexts, including low-income housing of green architectural surfaces



Simplify installation and maintenance

Design modular and lightweight components that facilitate easy installation and require minimal upkeep



Promote innovation

Utilize cutting-edge technology and research to advance the field of green architectural surfaces



Demonstrate feasibility

Implement real-life case studies to showcase the practicality and benefits of the CAPT-TILE system in diverse settings

CAPT-TILE Green Facades



- **Location:** implemented on commercial buildings and residential complexes.
- **Features:** modular clay tiles create vertical gardens suitable for urban environments.
- **Outcomes:** reduces energy consumption, increases urban green space, and acts as a natural air filter.

Project details

Grant Agreement Number: 101158001
Project Full Title: CO₂ CAPTuring from nature-based building TILES
Topic: LIFE-2023-SAP-CLIMA-CCA
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End date of the project: 31 May 2028
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Partners



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