

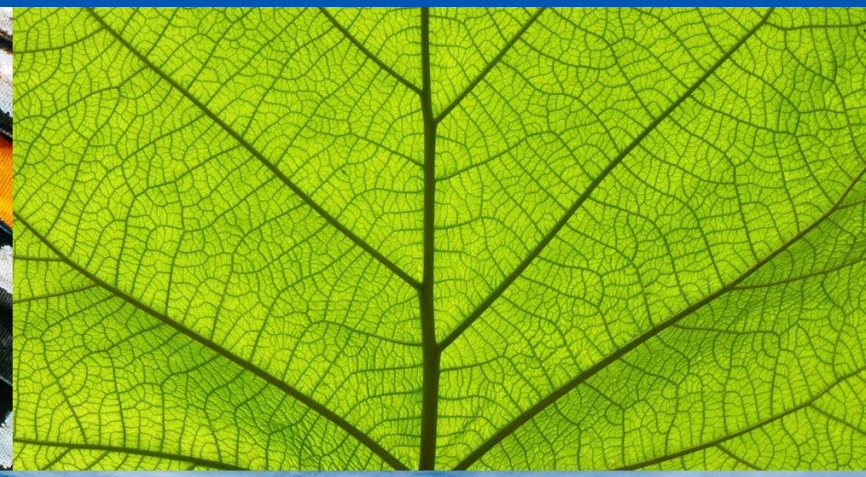

REGIONAL FORUM ON SUSTAINABLE DEVELOPMENT: ADAPTATION TO CLIMATE CHANGE

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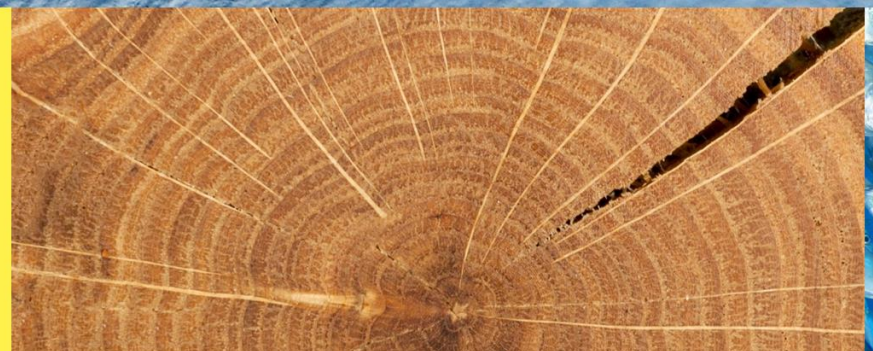
Organisation: European Commission - CINEA

EU AFFAIRS AND PROJECTS




REGIONE LIGURIA

1. The European strategy for adaptation to climate change

Photos: Rhein-Erft-Kreis / dpa

Germany/Belgium 2021

European Commission

Policy context

- The **2030 Agenda for Sustainable Development**
- the **Paris Agreement**
- The **European Green Deal**:
  - European **Climate Law,**
  - **2030 Climate** Target Plan
  - European **Climate Pact**
  - EU **Biodiversity** strategy
  - **Farm to fork** strategy
  - **Forest** strategy
  - Renewed **sustainable finance** strategy
  - … and more!

European Commission

A new EU strategy on climate adaptation

“Forging a climate-resilient Europe - The new EU strategy on adaptation to climate change”

Adopted by European Commission on 24 February 2021

- Evaluation of the first strategy (2018)
- Blueprint, open public consultation, and expert reviews (2020)

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Vision & Objectives

- Vision: by 2050 the EU will be a climate-resilient society, fully adapted to the unavoidable impacts of climate change
- Objectives:
  - **Smarter adaptation** – improving knowledge and managing uncertainty
  - **More systemic adaptation** – support policy development at all levels and sectors
  - **Faster adaptation** – speeding up adaptation across the board
  - **Stepping up international action** for climate resilience

Smarter adaptation

improving knowledge and managing uncertainty, by

- Pushing the frontiers of **knowledge** on adaptation
- More and better climate-related **risk and losses data**
- Making **Climate-ADAPT** the authoritative European platform for adaptation knowledge

© picture: NOAA

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More systemic adaptation

support policy development at all levels and sectors, by:

- Improving **adaptation strategies and plans**
- Fostering **local, individual, and just resilience**
- Integrating climate resilience in **macro-fiscal policy**
- Promoting **nature-based solutions** for adaptation

© picture: Peter Löffler

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Faster adaptation

speeding up adaptation across the board, by:

- Accelerating **the rollout** of adaptation solutions
- Reducing **climate-related risk**
- Closing the **climate protection gap**
- Ensuring the **availability** and **sustainability** of **freshwater**

© picture: Peter Lőffler

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Stepping up international action

For climate resilience, by:

- Increasing support for **international climate resilience** and **preparedness**
- Scaling up i**nternational finance** to build climate resilience
- Strengthen **global engagement** and **exchanges** on adaptation

© picture: Peter Lőffler

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Engagement of EU

- Based on subsidiarity and local nature of adaptation
- Support MS, subnational authorities, business & individuals
- Financially, with knowledge & tools
- Invitation to work together

© picture: Peter Löffler

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2. Good practices from the EU LIFE Programme

LIFE Programme and climate adaptation

- Since 1992
- More than 5000 projects financed so far
- **5,4 billion euro 2021-27**

Nature and biodiversity:

Circular economy and quality of life:

Climate mitigation and adaptation

Clean energy transition

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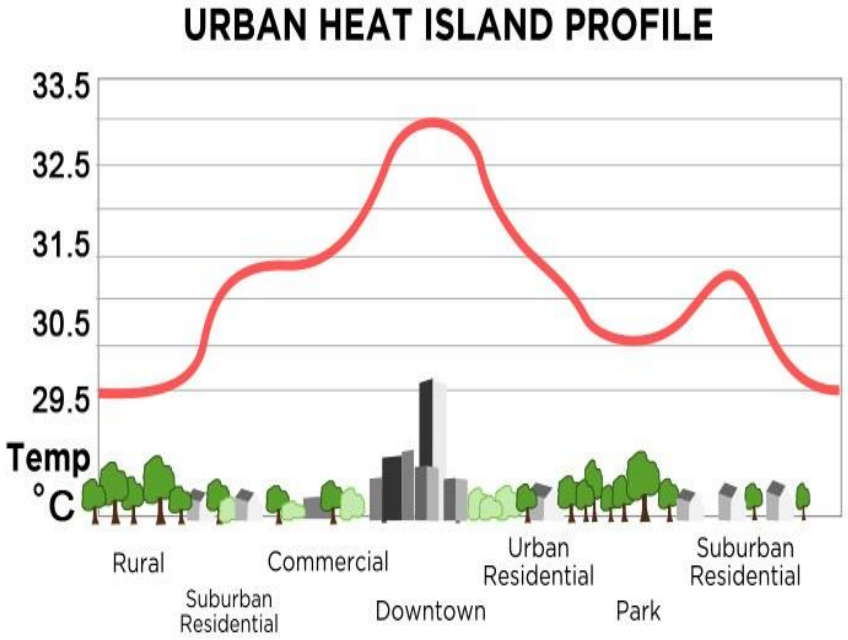
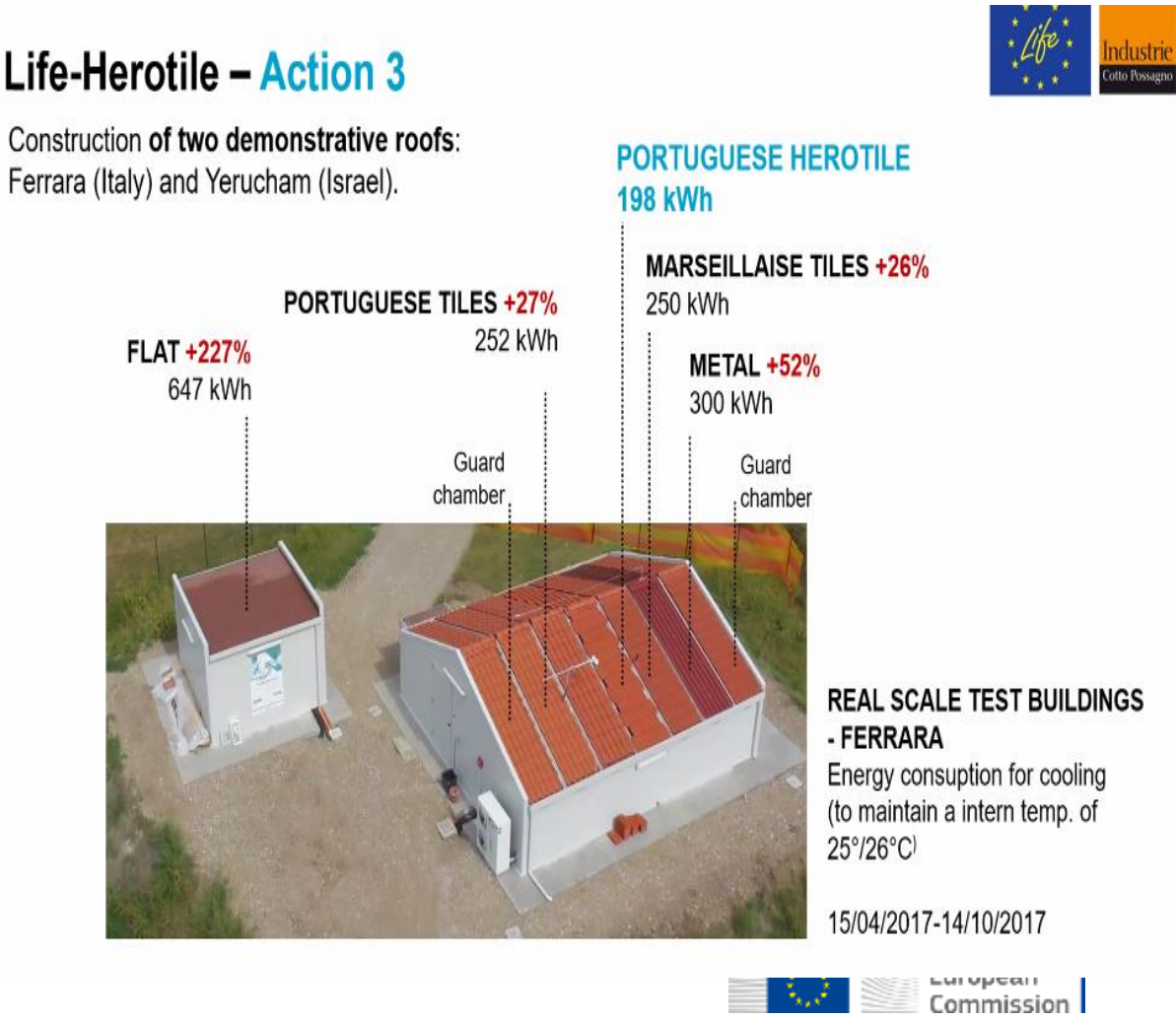
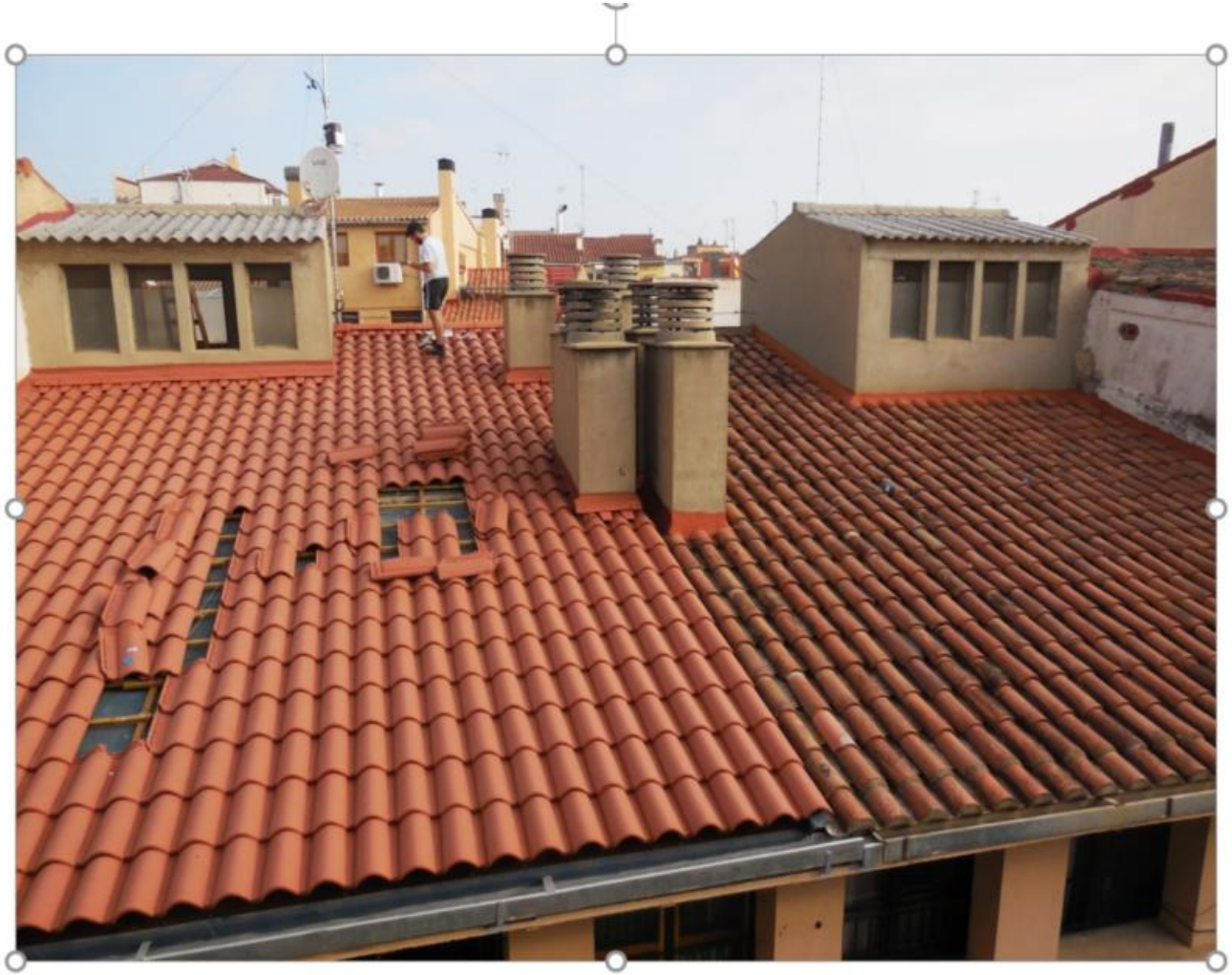
Urban Heat Island Effect – LIFE HEROTILE





- Roof Tiles that control and reduce the energy requirement for cooling, that is the major energy demand in air-conditioning
- Reduce the Urban Heat Island Effect

Urban Heat Island Effect – LIFE HEROTILE



Verification of the collected data on two real buildings, one in Zaragosa (Spain) and the other in Ca' del Bosco (Italy).

-50%

Reduction of the **inlet watts to be cooled** in comparison with a non-ventilated roof

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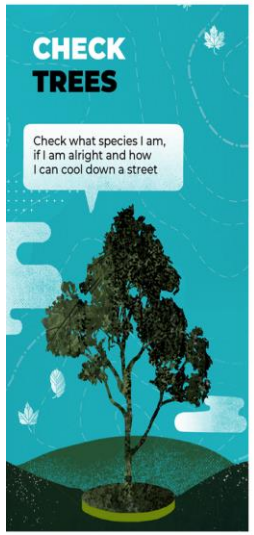
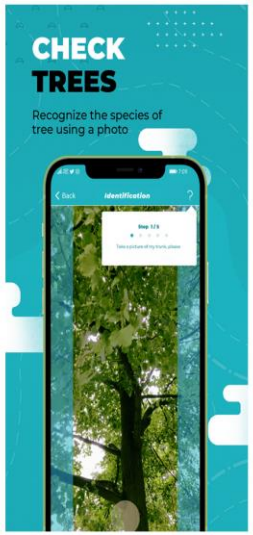
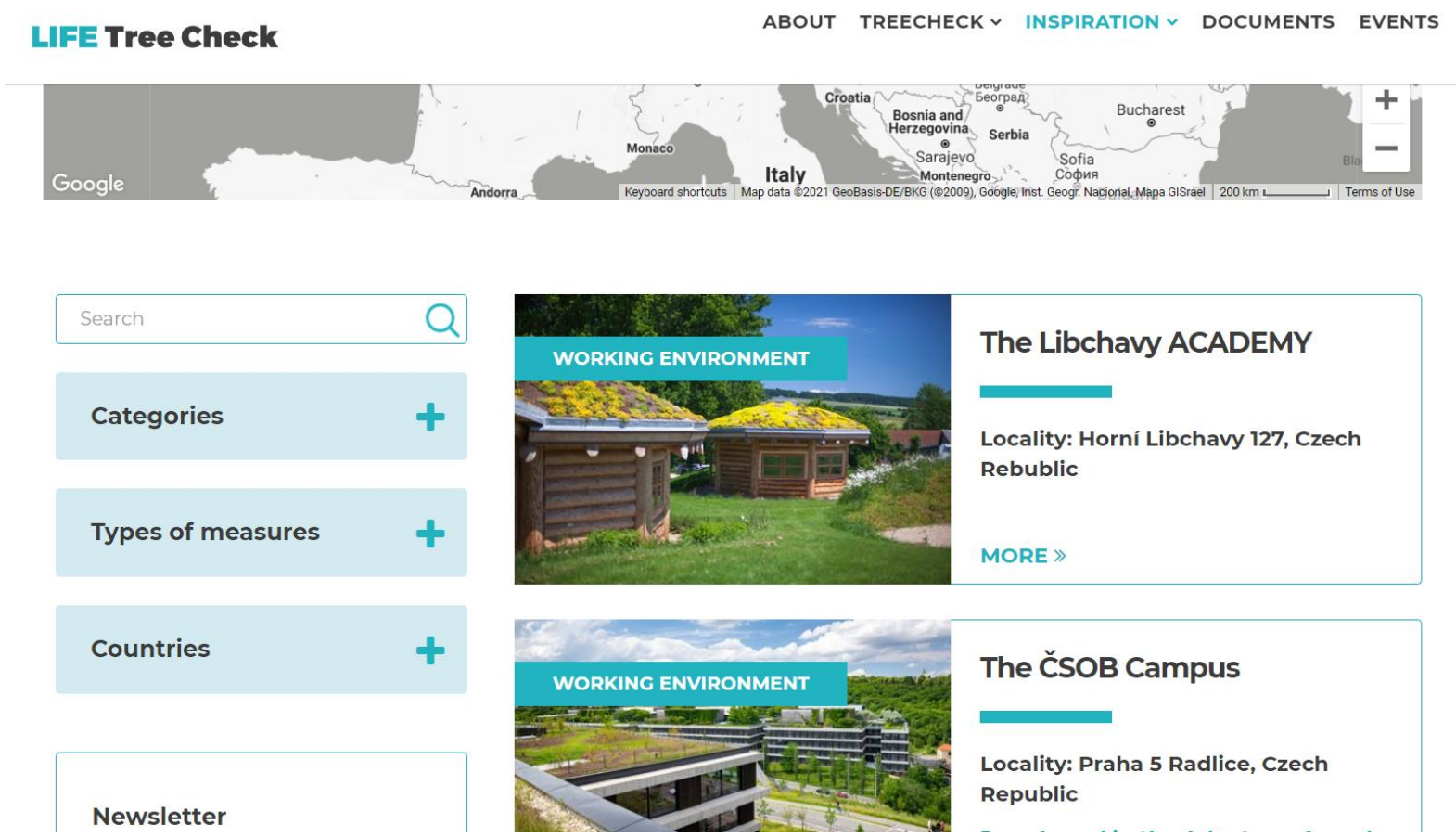
Nature based solutions- LIFE TreeCheck







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Nature-based solutions – LIFE Metro Adapt

SOLUZIONI VERDI PER L'INGEGNERIA CIVILE PER CONTRASTARE I CAMBIAMENTI CLIMATICI

By redazione | Giugno 11th, 2021 | Categories: LE ULTIME SU METRO ADAPT | 0 Comments

Visita all'intervento idraulico pilota realizzato a Solaro per il contenimento del rischio idraulico nell'ambito del progetto europeo Life Metro Adapt Milano, 9 Giugno 2021 - Nell'ambito del progetto LIFE Metro Adapt nato grazie al Programme for [...]

Flash floods risk management - LIFE RAINBO

- Sistema sperimentale per migliorare la risposta agli eventi improvvisi di piena

Il torrente Ravone a Bologna

Il fiume Parma a Parma

LE AZIONI

- Simulazione di scenari critici per la pianificazione e la prevenzione del rischio
- Potenziamento dell'infrastruttura di monitoraggio dei fenomeni intensi e della loro evoluzione
- Sviluppo di un sistema di early warning per le alluvioni lampo

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LIFE RAINBo

- Database che raccoglie dati sulle precipitazioni e sul livello idrometrico dai sensori e dati di precipitazione stimati con una tecnologia sperimentale che sfrutta il segnale electromagnetico in corrispondenza dei ponti radio delle infrastrutture di telecomunicazione

Desalinisation – LIFE DREAMER

To increase desalination system water recovery to 90%.

To decrease the environmental impact associated with reverse osmosis desalination by **reducing up to 80% the brine generated**.

To reduce by 50% the chemicals used in desalination treatment through the removal and recovery of products contained in seawater.

To diminish the specific energy consumption of reverse osmosis desalination process by 10%.

To reduce greenhouse emissions generated from desaliation treatment to 10%.

- The filtration- settlement system of the LIFE DREAMER process has managed to recover 99% of the water used and concentrating the same percentage of the solid waste generated. The filtering stream from this system is re-injected back into the main treatment system with a consequent increase in the volume of product water

European Commission

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Thank you

photos source: Adobe Stock, Peter Löffler

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