



Welcome to the

CARMINE

Newsletter

Welcome to the CARMINE Newsletter!

Here you will find the latest updates from the CARMINE project, including insights into our ongoing work to strengthen climate resilience in metropolitan regions across Europe. The past few months have been particularly busy for CARMINE. Many of our Living Labs organised their second round of workshops (some of them even had cake!). We also share an important update on CARMINE publications. Read on for more highlights from the second half of 2025!



Congratulations to Birmingham for becoming the UK's first Nature City!



Birmingham has been declared the UK's first official Nature City as part of a UK-wide programme working to connect urban communities to nature. The award recognises Birmingham City Council's commitment, alongside its partners, to transform life for communities by making nature and green spaces more abundant, accessible and embedded in urban planning.

[More info](#)

Want to read CARMINE publications? Check out our Zenodo community!



CARMINE

Publications



What are the urban effects of climate change on the elderly population? How do urban heat islands impact human wellbeing? What are the effects of nighttime artificial light? Find answers to all these questions and more at our new Zenodo Community, where all CARMINE publications to date are now available!

[Zenodo Community](#)

CARMINE has joined the Resilience of the Built Environment Cluster



We're proud to announce that CARMINE has joined forces with six sister Horizon Europe projects – [CLIMRES](#), [MAIA](#), [Minority Report](#), [MULTICARE](#), [MULTICLIMACT](#) and [RETIME](#) (image credit) – under the Resilience of the Built Environment Cluster.

Together, we've signed a Joint Manifesto reaffirming our shared mission to build a climate-resilient, inclusive, and sustainable Europe. We're ready to move beyond separate projects and work as one united force.

- Our collective vision:
- Future-proof and adaptive built environments;
 - Inclusive and community-driven resilience;
 - Innovation that bridges science, policy and real-world impact;
 - Shared knowledge, open collaboration and digital transformation.

By aligning our tools, data and expertise, we aim to turn emerging challenges into opportunities and ensure no community is left behind in Europe's transition to a climate-smart society.

Read the
Joint Manifesto



Latest Blog Updates

Second workshop of the Barcelona Living Lab



How can wildfire protection be improved under climate change conditions in the Barcelona metropolitan area? To address this question, a workshop was held at the Collserola Library (Vallvidrera, Barcelona) on 23 October 2025. Organised jointly by the Pau Costa Foundation and Mitiga, this event – the second organised within the framework of the Barcelona Living Lab for the European project CARMINE – brought together representatives from different sectors in the field of wildfire management.

[More info](#)

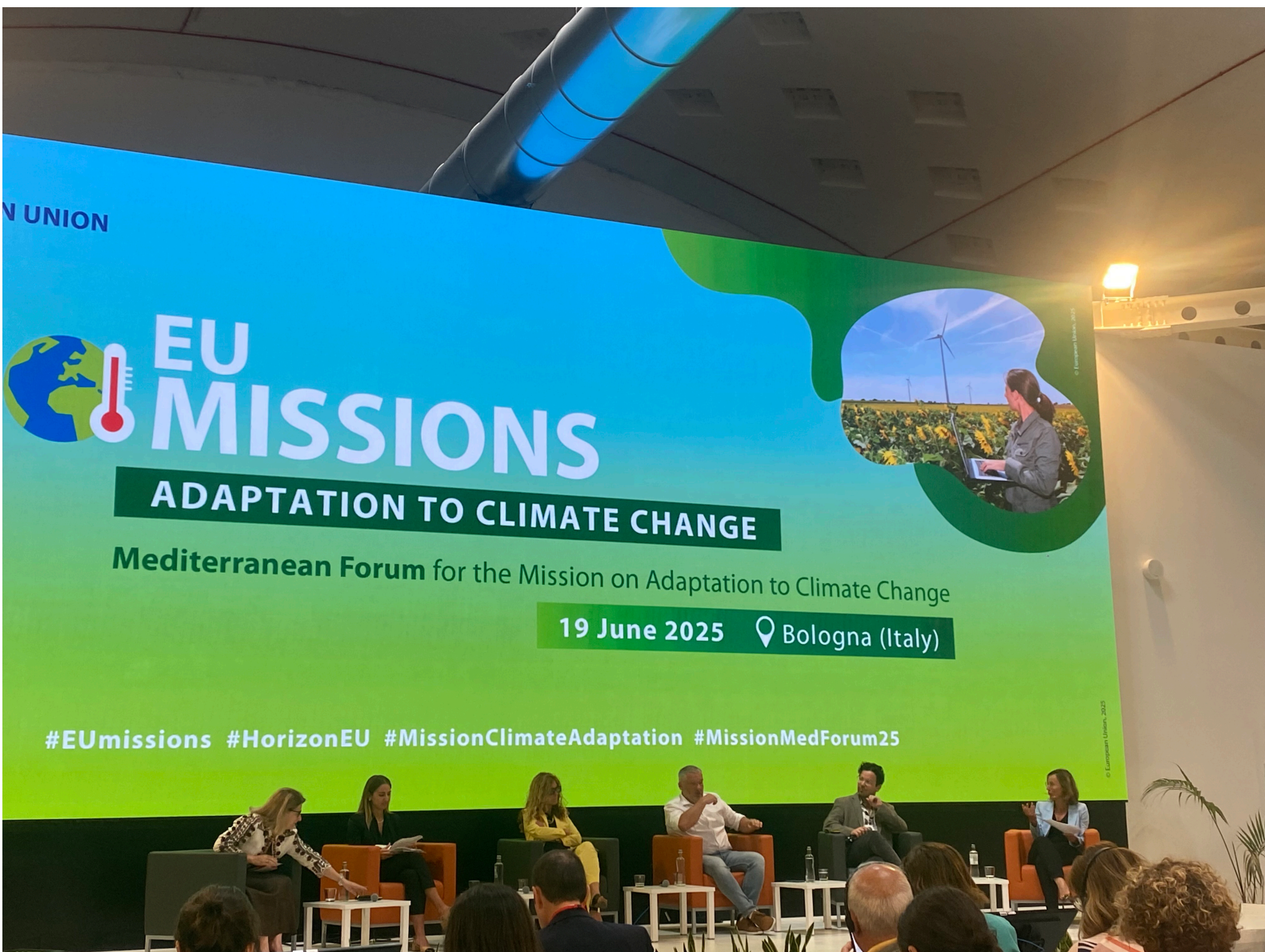
Second workshop of the Athens Living Lab



The second workshop of the Living Lab for urban heat and health resilience in metropolitan Athens took place on 8 October 2025 at the offices of Greece's National Infrastructures for Research and Technology (GRNET). The Living Lab – launched through a first workshop in December 2024 – is working to identify transformative solutions for urban heat and health resilience, and builds on climate adaptation and resilience work taking place in Metropolitan Athens and the Region of Attica.

[More info](#)

CARMINE at the Mediterranean Forum of the Mission on Adaptation to Climate Change



On 19 June 2025, CARMINE project partners from the Local Governments for Sustainability (ICLEI) Europe network actively contributed to key discussions on climate resilience at the Mediterranean Forum for the EU Mission on Adaptation to Climate Change. Taking place in Bologna (Italy), the event brought together Charter Signatories, regional and local leaders, policymakers, experts, and practitioners to explore best practices in climate adaptation and resilience in the Mediterranean area and beyond.

[More info](#)



Publications

Discover our partners' latest publications showcasing research findings, expert insights, and innovative solutions driving climate resilience, sustainability, and urban transformation.

Elderly and Disabled People in the Urban Environment: Does the 15-minute City Paradigm Protect Them?

A recent study co-authored by Letizia Cremonini, Teodoro Georgiadis, Marianna Nardino, Federico Carotenuto, Edoardo Fiorillo, and Daniela Famulari from CARMINE partner, the National Research Council of Italy (CNR), published in Athens Journal of Health and Medical Sciences.

The 15-minute city is now considered paradigmatic in representations or models of cities. This city should allow all citizens access to all services, with each service located within a distance that takes no more than fifteen minutes to reach from any point in the city. However, would such a city be truly equitable encompassing the diversity of a population, or would it only represent the center of the Gaussian bell curve, with a reasonable deviation from the maximum of the Gaussian? Let us consider a person who is elderly, chronically ill or has limited mobility. This paradigm does not make him/her safe concerning the exposure to a climate risk within the current urban structure. The risk is directly related to climate exposure and thus to the time it takes to perform an “everyday life” task (e.g. going shopping).

Studies show that an older adult with limited mobility also has limited ability to remain in a state of physiological well-being when exposed to a heat wave, so the 15-minute city does not produce as much benefit for those living towards the tail end of the Gaussian. This example of an elderly person with limited mobility can, moreover, be aggravated by the presence of any disabilities. The first results of Horizon Europe Project CARMINE and of the interaction with a group of stakeholders who were asked how they would work to introduce Nature Based Solutions (NBS) in the Metropolitan area of Bologna are presented in the findings.

[Read here](#)

Nighttime artificial light intensity in local climate zones: A comparative study for global cities

A recent study, co-authored by Matthias Demuzere from CARMINE partner B-Kode, published in Cities.

Recent studies have demonstrated a wide range of impacts of urban light pollution, including effects on public health, shifts in the vegetative phenology of trees, socio-economic consequences, and energy budgets; however, the detailed structure of urban forms and functions has not yet been fully incorporated into such analyses. Using the concept of Local Climate Zones (LCZs), this study assesses nighttime lights (NTL) across 32 urban agglomerations between 2012 and 2023 using data from the VIIRS instrument.

Significant statistical differences were identified between individual LCZs, along with distinct temporal and regional trends across metropolitan areas. LCZ 1, typically representing densely built-up areas with skyscrapers, exhibited the highest mean NTL, followed by LCZ 10 (heavy industry), LCZ 4 (openly arranged high-rise buildings), and LCZ 3 (compact mid-rise buildings), while lower values were observed in LCZ 9, characterized by sparse building arrangements. The results reveal significant temporal and regional trends in NTL across built LCZ types, indicating that changes in nighttime light intensity cannot be explained solely by population growth. Differences in the contribution of individual LCZs to overall urban NTL suggest a valuable tool for identifying hot-spot areas and informing targeted light pollution mitigation policies.

[Read here](#)



Mark your calendar!

Discover upcoming events and initiatives offering opportunities to connect, learn, and collaborate.

World Economic Forum

 19–23 January 2026

 Davos, Switzerland

Details [here](#)

International Day of Clean Energy

 26 January 2026

 TBC

Details [here](#)

ECOSOC Partnership Forum

 27 January 2026

 New York, United States

Details [here](#)

World Wetlands Day

 2 February 2026

 Multiple locations & Online

Details [here](#)

International Day of Forests

 21 March 2026

 Global

Details [here](#)

World Water Day

 22 March 2026

 TBC

Details [here](#)

European Geosciences Union (EGU) General Assembly 2026

 3–8 May 2026

 Vienna, Austria & Online

 Submission deadline: 15 January 2026

Conveners: Sorin Cheval, Shreya Some, Emma Ferranti, Francesco Bosello and Edward Byers

[Learn more and submit your abstract](#)

CARMINE is inviting submissions to our joint session at **EGU26**, co-organised with the **ACCREU Project**, **CROSSEU** and **SPARCCE** projects: Session CL3.2.10, "Beyond Physical Risk: Assessing Socio-Economic Vulnerability and Actions for Climate Resilience"

This session focuses on the human-centred dimensions of climate impacts—from socio-economic vulnerability and inequalities to health, livelihood and well-being.

The session will also highlight insights from EU **climate risk** initiatives developing science-based, impact-driven tools to strengthen **resilience** and support the EU Mission on Adaptation to Climate Change.



One last thing...



Happy Holidays

FROM

CARMINE

We at the CARMINE team would like to thank everyone – case study area partners, stakeholders, followers and readers – for their dedication and collaboration this year. We wish you a restful holiday season and happiness for 2026.

Stay connected! Follow **CARMINE** on:



Thank you for being part of this journey as we work together to build a sustainable and climate-resilient future for our communities!



**Funded by
the European Union**



**UK Research
and Innovation**

Project funded by



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
Stato Secretariat for Education,
Research and Innovation SERI

[Privacy](#)
[Imprint](#)
[Unsubscribe](#)