Consiglio Nazionale delle Ricerche
IMAA ISTITUTO DI METODOLOGIE PER L'ANALISI AMBIENTALE

ENEA Italian National Agency for New Technologies, Energy and Sustainable Economic Development

URBAN EUROPE
Urban Europe Research Alliance

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Rome Architect's Council — ORDINE DEGLI ARCHITETTI PIANIFICATORI PAESAGGISTI E CONSERVATORI DI ROMA E PROVINCIA

University Roma Tre

*invite to a conference supporting*

# RESEARCH ALLIANCES FOR CLIMATE-NEUTRAL, SUSTAINABLE AND EQUITABLE URBAN COMMUNITIES

ROME, 26th-28th FEBRUARY 2025

Location: CNR NATIONAL RESEARCH COUNCIL Headquarter
PIAZZALE ALDO MORO, 7 - ROME

26th and 27th open to the public (in person; language: english)
28th UERA members only

It is with great pleasure that Institute of Methodologies for Environmental Analysis of the National Research Council (CNR-IMAA), Italian National Agency for the New Technologies, Energy and Sustainable Development (ENEA), and Urban Europe Research Alliance (UERA) welcome you to the conference on Research Alliances for Climate-Neutral, Sustainable and Equitable Urban Communities.

In an era dominated by climate change, social inequality, and urban transitions, innovative and collaborative responses are more urgent than ever. These challenges demand technological solutions and diverse perspectives to create sustainable futures. The issues are global, transcending borders, and require integrated approaches addressing economic, environmental, and social dimensions.

Our mission is to explore how cross-disciplinary, cross-sector, and transnational collaborations can transform urban and vulnerable communities into resilient, sustainable spaces. Prioritizing climate neutrality, social inclusion, and equity, we aim to develop models balancing economic growth, environmental stewardship, and human well-being. This approach emphasizes local knowledge, cultural sensitivity, and grassroots initiatives while amplifying marginalized voices and addressing systemic inequities.

This event convenes experts from academia, government, industry, and civil society to foster interdisciplinary exchanges and strategize actionable solutions. Through workshops, panels, and case studies, participants will examine successful sustainability models, explore emerging technologies, and identify opportunities to scale localized solutions. Topics include circular economies, regenerative agriculture, smart cities, and renewable energy integration, offering practical insights to inspire new research and partnerships.

More than a conference, this gathering spark ongoing dialogues and partnerships. Together, we will craft a roadmap for a sustainable, equitable future, turning shared challenges into opportunities for a healthier planet and society.

We look forward to the inspiring conversations and breakthroughs that will emerge from our discussions!

Scientific Committee:
Paola Clerici Maestosi (ENEA), Roberta Chiarini (ENEA) Carmelina Cosmi (CNR), Enza Lissandrello (AAU)
Organizational Board: Monica Proto (CNR-IMAA), Michela Pirro (ENEA), Rosa Labellarte (ENEA)

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# Agenda day 1: 26th February

## MARCONI ROOM

## SESSION 1 (Plenary Session) 09:00-13:00

### WELCOME AND INTRODUCTION: Research Alliances for Climate-Neutral, Sustainable and Equitable Urban Communities

Moderator: Paola CLERICI MAESTOSI (ENEA Coordinator of the Task Force for the Internationalization of the ICER Division, Driving Urban Transition Partnership PED Pathway vice-chair)

- Francesco PETRACCHINI (CNR Head of the Department of Earth System Sciences and Environmental Technologies)
- Stefano PIZZUTI (ENEA, Head of Tools and Services for Critical Infrastructure and Renewable Energy Communities Division TERIN-ICER)
- Enza LISSANDRELLO (Aalborg University and Urban Europe Research Alliance UERA Coordinator)

09:30-13:00

SESSION 1 Overview on climate neutrality: European emerging new directions

Moderator: Paola CLERICI MAESTOSI (ENEA Coordinator of the Task Force for the Internationalization of the ICER Division, Driving Urban Transition Partnership PED Pathway vice-chair)

09:45-10:00 Mission 100 CNC (Carlo Alberto NUCCI, UniBO)
10:00-10:15 Mission Innovation UTM Urban Transitions Mission and UTM Centre (Elli TZATZANIS-STEPANOVIC, FFG) on-line
10:15-10:30 EU Mission on Adaptation to Climate Change (Silvia BURZAGLI)
10:30-10:45 Net Zero City Platform (Francesca RIZZO, POLIMI)
10:45-11:00 Covenant of Mayors (Valentina PALERMO, JRC)

11:00-11:15 Coffee break LAGUNA ROOM

11:15-11:30 Partnership CET (Rachele NOCERA, MUR)
11:30-11:45 Partnership DUT (Orsolya KÜTTEL, FFG)
11:45-12:00 Partnership SBEP (Margherita CAPPELLETTO, MUR)
12:00-12:15 European Urban Initiative (Daniela PATTI, Eutropian)
12:15-12:30 CapaCITIES (Elena SIMION, UEFISCDI)
12:30-12:45 NEC Platform (Daniela LUISE, Agenda21)
12:45-13:00 Wrap up and conclusion Paola CLERICI MAESTOSI

13:00-14:00 Lunch LAGUNA ROOM

## OPENING AFTERNOON SESSIONS MARCONI ROOM

### 14:00-14:20 KEY NOTE SPEAKER

Overview on climate issue in Rome City Climate Contract (Edoardo ZANCHINI, Comune di Roma, Direttore Ufficio Clima)

## SESSIONS A MARCONI ROOM 14:20-18:00

CAPACITIES Funded by the European Union
Building Capacities for the Climate Neutral and Smart Cities Mission

14:20-15:20

SESSION A1 National platforms (showing the variety of situations in the CapaCITIES core countries) and Capacities Ambassadors

Moderator: Gudrun HAINDLMAIER (AIT Austrian Institute of Technology/University of Vienna)

14:20-14:30 Introduction (Gudrun HAINDLMAIER, AIT Austrian Institute of Technology/University of Vienna)
14:30-14:40 Presentation of national platforms in Sweden, Spain, Romania and Austria
14:40-15:10 Discussion on *Lessons learned, success factors and aligning with the Cities Mission* with Maria TENGVARD (Viable Cities), Julio LUMBRERAS (CitiES2030), Elena SIMION (UEFISCDI)
15:10-15:20 Ambassador Concept within CapaCITIES (Monica SALVIA, CNR)

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15:20-16:30
SESSION A2 Ambassadors Workshop: inspiring actions within the EU Climate Pact and good practices in Italy

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| Moderators: | Luciana FAVARO and Gianni TARTARI (EUcliPA – European Climate Pact) |
| 15:20-15:30 | The European Climate Pact (Leonardo DI FILIPPO, Team leader - DG Clima) on-line |
| 15:30-15:40 | The EU Climate Pact in Italy (Cecilia TRENTI & Maria GUERRIERI, Climate Alliance IT) on-line |
| 15:40-15:50 | From an informal community to an association: Learning from the experience of the Italian Ambassadors. (Gianni TARTARI, EUcliPA) |
| 15:50-16:00 | Engaging citizens in a SECAP/CCC lab: the case of Padova (Luciana FAVARO, EUcliPA) |
| 16:00-16:10 | FIRENZE PER IL CLIMA, an institutionalized experience of citizen engagement on climate and environmental policies (Dario MARMO, LAMA) |
| 16:10-16:20 | The Milan Citizens' Climate Assembly: participating in the ecological transition (Christina PACI, Comune di Milano) on-line |
| 16:20-16:30 | Q&A |

16:30-18:00
SESSION A3 Ambassadors Workshop: interactive section for a shared pathway

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| Moderators: | Monica SALVIA and Filomena PIETRAPERTOSA (CNR-IMAA) |
| 16:30-17.00 | Alignment Exercise |
| 17:00-17:30 | Looking for fundings opportunities |
| 17:30-18:00 | A joint Action Plan 2025-2027 |

## SESSION B LIBRARY ROOM 14:20-18:00

URBAN EUROPE Urban Europe Research Alliance
DUT Driving Urban Transitions

14:20-16:00
SESSION B1 Urban Europe Research Alliance: Tematic Working Groups Activities

16:00-18:00
SESSION B2 DUT Partnership: Refining the Roadmap Towards Innovative Climate-Neutral Cities

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| Moderators: | Paola Clerici MAESTOSI, Silvia BOSSI, Michela PIRRO (ENEA) |
| 16:00-16:10 | Opening by Orsolya KÜTTEL (FFG and Strategic Coordination Driving Urban Transitions Partnership) on-line |
| 16:10-16.30 | Warm up and Intro |
| 16:30-17:00 | In the Changing City \| adaptation challenges and survival strategies |

17:00-17:10 Break

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|---|---|
| 17:10-17:40 | How do we adapt our Cities? |
| 17:40-18:00 | Plenary discussion on: What is new? What is distinctive? What we must pay attention to? |

## PLENARY SESSION MARCONI ROOM

18:00-18:30
JOINT WRAP UP AND CONCLUSION

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# Agenda Day 2: 27th February

## Sustainable and Climate-Neutral Cities for Inclusive and Equitable Urban Futures – Urban Europe Research Alliance CONFERENCE 2025

The Day 2 will be dedicated to the UERA Conference 2025. Scientific presentations are aimed at clarifying innovative approaches and at the nexus of climate neutrality, sustainability, and social equity in urban settings. Submissions may take the form of theoretical frameworks, empirical case studies, or visionary proposals aimed at exploring urban sustainability paradigms.
Authors wishing to submit a paper or a work in progress must prepare an abstract in English, ranging from 200 to 300 words. Abstracts are welcome to advance new planning and governance perspectives and strategies for Europe's city-regions, generating a debate on challenges and opportunities in the context of Sustainable and Climate-Neutral Cities for Inclusive and Equitable Urban Futures promoting potential pathways for EU's spatial policy by scrutinizing critical aspects. UERA Conference 2025 will provide a forum for partnership and consolidation of collaboration for future Urban Europe Research Alliances and policies. All submissions will undergo a review process by the Scientific Committee.
Abstracts must articulate their connection to the conference themes, delineating the rationale, objectives, methodologies employed, and validation through relevant case studies (if applicable). Additionally, key findings and conclusions should be clearly stated. Authors are required to indicate their preferred mode of presentation (oral or poster). It is mandatory for at least one author to be present in person during the presentation.

# MARCONI ROOM

## WELCOME AND INTRODUCTION

Moderator: Enza LISSANDRELLO (Aalborg University)

- Carmelina COSMI (CNR-IMAA)
- Edoardo CROCI (Bocconi University, UERA Chair)
- Giulia MONTELEONE (ENEA Head of the Energy Technologies and Renewable Sources Department, TERIN)

## SESSION 1 SOCIAL JUSTICE, EQUITY, AND PARTICIPATION 09:30-11:00

Moderator: Moderators: Enza LISSANDRELLO (Aalborg University)

### Keynote speakers

- Equity and Active Travel: Gender and Beyond (Rachel ALDRED, University of Westminster )
- Smart city for social equity: a dilemma (Melissa SESSA, CNR-IRPI)

### selected papers

- The Traveling Urban Sustainability Researcher: Addressing a conflictual topic (Pia LABORGNE, Karlsruhe Institute of Technology)
- Doughnut Economics as a Tool for Participatory Governance in Sustainable and Climate-Neutral Cities: The Case of the Budapest Degrowth Doughnut (Gabriella KISS, Corvinus University of Budapest)
- The Question of Institutionalization in Urban Care Cultures and its Effects on Social Justice: The Case of Protective Measures Against Climate-related Health Risks in Basel, Switzerland (Tanja HERDT, TU Delft, Delft)
- Thermal justice in the city: Addressing heat inequities through participatory urban planning (Zouad HALA, Gustave Eiffel University)
- Citizen science for green urban transitions: Stories from Urban ReLeaf cities (Inian MOORTHY, International Institute for Applied Systems Analysis - IIASA)
- Advancing Inclusive and Sustainable Mobility: Insights from the Fair Mobility Project (Kintero THOKORA, Technologie Zentrum Energie - TZE)

11:00-11:15 Coffee break and Informal Exchange Break – Video and Publications Area – Laguna Room

## SESSION 2 URBAN PLANNING and DESIGN FOR SUSTAINABILITY and CLIMATE NEUTRALITY 11:15-13:00

Moderator: Ghadir POURHASHEM (University of Žilina)

### Keynote speakers

- Covenant of Mayors and multilevel governance for the multiple benefits of energy efficiency at local level (Alessandro FEDERICI, ENEA)
- Planning for inclusive and equitable cities: rethinking Mobility and Participation (Francesco SCORZA, University of Basilicata)

### selected papers

- Integrated spatial planning for climate-neutral, sustainable and equitable cities: the LIFE IN-PLAN project methodology (Fabrizia SALVI, AREA Science Park)
- Entropic Urbanism: Transformative Strategies for Climate-Neutral and Sustainable Development in Informal and Post-Suburban Areas (Claudia RIBEIRO, Universidad Complutense de Madrid)
- Planning, Urban Design and Architecture for Climate Action: findings from UCCRN's Third Assessment Report on Climate Change and Cities (Mattia Federico LEONE, Università di Napoli Federico II)
- Towards Climate-Neutral Cities: Insights from a Decade of Sustainable Urban Mobility Planning in Czech Cities (Radomíra JORDOVÁ, Jan Evangelista Purkyně University)

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- Transformative Hospitality for Sustainable and Inclusive Urban Tourism (Marcella DE MARTINO, CNR-IMAA)
- State of local climate and energy planning in 6 small and rural European towns in Europe: preliminary results of the LIFE LOCAL GoGREEN project (Luigi SANTOPIETRO, CNR-IMAA)
- How Urban Planning Can Reduce Energy Consumption – a Literature Review (Rasmus Nedergård STEFFANSEN, Aalborg University)
- Integrating cultural and spatial qualities into decision-making. Towards sustainable transformation of the Sørsida waterfront area in Ålesund (Francesco CAMILLI, Independent NTNU)

13:00-14:00 Lunch – Laguna Room

## SESSION 3 TECHNOLOGY AND INNOVATION FOR URBAN TRANSITIONS 14:00–15:30

Moderator: Roberta CHIARINI (ENEA)

### Keynote speakers

- Research Alliances for Sustainable and Smart Cities: Unlocking Synergies for Innovation and Impact (Sonia GIOVINAZZI, ENEA)
- Solarpunk is the poetics of the future (Matteo SCARFÒ, Solarpunk Italia)

### selected papers

- Exploring the role of technologies in urban sustainable transition process (Fotini KEHAGIA, Civil Engineering Department of Aristotle University of Thessaloniki)
- Urban Digital Twin supporting the implementation of positive energy districts – PED (Valerio PALMA, RomaTre University)
- Sniper-Tech for Tailored Urban Innovation: Pitigliano as an Open Blue-Sky Lab (Francesca PARASECOLO, OPEN FIBER)
- Advancing Urban Resilience through Network Science and AI: A Scalable Framework for Climate-Neutral and Equitable Cities (Amir ALBADVI, Urban Resilience and Sustainability Alliance (URSA), University Canada West, Vancouver)

15:30-15:45 Coffee break and Informal Exchange Break –Video and Publications Area – Laguna Room

## SESSION 4 RESILIENT INFRASTRUCTURE AND NATURE-BASED SOLUTIONS MARCONI ROOM 15:45-17:30

Moderator: Benedetta LUCCHITTA (Bocconi University)

### Keynote speakers

- Mainstreaming nature-based solutions in cities and regions (Niki FRANTZESKAKI, Utrecht University )
- Ever new buzz words or leveraging transformation? Activating nature-based solutions for ecological justice in cities (Sonja GANTIOLER, EURAC Research )
- Integrated and Nature-Based solutions for circular and resilient cities (Elisabetta SALVATORI, ENEA)
- Nature-based solutions from the perspective of sustainability (Stephen VENN, University of Lodz)

### selected papers

- Pedalling towards sustainability: unlocking the potential of cycling for liveable cities (Giorgia GALVINI, ISINNOVA)
- Advancing Climate-Resilient Transport Infrastructures to Foster Sustainable and Climate-Neutral Urban Communities: The CRISTAL Project (Andrea BALLARIN, Studio Ballarin)
- A Step-Change National Plan for the integrated seismic-energy rehabilitation of the building stock to enhance community resilience and sustainability (Stefano PAMPANIN, Sapienza University of Rome)
- Finding the right tree in the Municipality of Rome: an ecosystem service-based approach (Alessandro SEBASTIANI, ENEA)
- VEG-GAP: enhanced knowledge of urban atmosphere in relation to urban vegetation (Mihaela MIRCE, ENEA)
- Integrated planning for air quality and climate: evidence from an Italian multi-level case study (Angela PILOGALLO, CNR-IMAA)

## SESSION 5 ENERGY COMMUNITIES AND JUST ENERGY TRANSITION LIBRARY ROOM 15:45-17:30

Moderator: Pia LABORGNE (Institute for Technology Assessment and Systems Analysis)

### Keynote speakers

- Community energy solutions to accelerate local climate action (Ursula EICKER, Concordia University, Next Generation Cities Institute)
- Empowering the Margins: Inclusive Participation of Vulnerable Groups in Energy Transitions (Gudrun HAINDLMAIER, AIT Austrian Institute of Technology/University of Vienna)
- Title (Enza LISSANDRELLO, University of Aalborg)

### selected papers

- Energy communities: Spatial implications and tackling energy poverty (Sol Maria HALLECK VEGA, Wageningen University)
- Climate City Contracts of the EU Cities Mission: investigating innovative urban pathways for carbon neutrality (Michela PIRRO, ENEA)
- Social participation in innovative energy efficiency renovation to foster urban regeneration: a case study in the South of Italy (Anna AMATO, ENEA)

- Real experiments of co-creating sustainable and inclusive societies towards cross-sectorial transition to climate neutrality: the approach of Transition Super Lab in Western Macedonia region (Maria KONSTANTINIDOU, Hellenic Institute of Transport – HIT))
- A Nash Bargaining local-global optimization framework to fairly integrate renewable energy communities within a smart city (Gabriele VOLPATO, University of Padova)
- Testing Participatory Methodologies for Integrating Green Investments in Sustainable Urban Development: The Role of International Frameworks in Šabac, Serbia (Nataša Čolić MARKOVIĆ, Institute of Architecture and Urban & Spatial Planning of Serbia)
- Urban Transformative Capacity Building by Use of Living Labs: A Case Study of Alytus, Lithuania( Jolanta DVARIONIENE, Kaunas University of Technology)

## SESSION 6 17:30-18:00

### OPEN Discussion, COST Action Proposal, Wrap up & Conclusive Remarks

Moderator: Enza LISSANDRELLO (University of Aalborg)

- Building new orientative futures – Key questions

## POSTER SESSION (OPEN)

- Challenges for Bulgarian cities in Achieving Sustainable and Positive Energy Districts (Peter PETROV, New Bulgarian University)
- Leveraging capacity building and awareness towards PEDs. The C.Lever project experience in Cesena, Italy (Giulia TURCI, Cesena Municipality)
- A modeling approach to investigate the impact of an urban overheating mitigation technique in the context of climate change in Rome Italy (Serena FALASCA, ENEA)
- Condominium Housing Renovation for Sustainable and Climate-Neutral Cities (Georgi GEORGIEV, New Bulgarian University)

# GOLGI ROOM

## SESSIONE SPECIALE 09:00-13:00 (max n° 20 participants)

## DISTRETTI AD ENERGIA POSITIVA | PED – POSITIVE ENERGY DISTRICT

Moderator: Emanuele MARTINELLI (EnergiaMedia)

09:00-10:15 Positive Energy District|Distretti ad Energia Positiva

- Driving Urban Transition Partnership: the PED Pathway (Christoph GOLLNER, DUT P PED Pathway coordination)
- I Distretti ad Energia Positiva – PED (Paola CLERICI MAESTOSI, ENEA, vice-coordinator DUT PED Pathway)
- I Distretti ad Energia Positiva in Europa (Silvia BOSSI, ENEA)
- Revisione sistematica della letteratura sui Positive Energy District (Michela PIRRO, ENEA)
- Soluzioni costruttive per i Distretti ad Energia Positiva (Tiziana FERRANTE, PDTA, Sapienza)

10:15-10:30 Coffee break

### Playing with PED: Game PED 10:30-13:00

SCALABLE CITIES | C.Lever – Cesena Leveraging cross synergies

10:30-12:45 Designing PEDs through Game: the PED play with Beril ALPAGUT (DEMIRENERJI), Paolo CIVIERO (ROMATRE), Giulia TURCI (Comune di Cesena)

- 1/2 h for instruction, and grouping the Game board
- 1 for playing
- 15 min for presenting results and conclusion

12:45-13:00 Wrap up and conclusion

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# Agenda Day 3: 28th February

## UERA General Assembly (Restricted to UERA Members)

## MARCONI ROOM

## PLENARY SESSION 09:00-13:00

### NEW UERA FUTURE VISION CONSIDERING THE OUTCOMES OF THE CONFERENCE.

09:00-10:30 Presentation of working group activities and future overview

10:30-10:45 - Coffee break and Informal Exchange Break – Video and Publications Area – Laguna Room

10:45-13:00 Discussion on given topic:

- Action points
- New Editorial initiatives
- Call for Papers deadlines
- Presentation of new members
- Election of new members
- Voting for the UERA Chair position
- Cost Action
- Common Case Studies

13:00-14:00 – Lunch and Farewell