


# EU DUT Partnership, Mission Innovation

IEA HPC 2023-Joint Workshop IEA HPT, EBC , SHC

Emina Pasic, Vice Chair EU DUT/ PED TP

2023-05-15



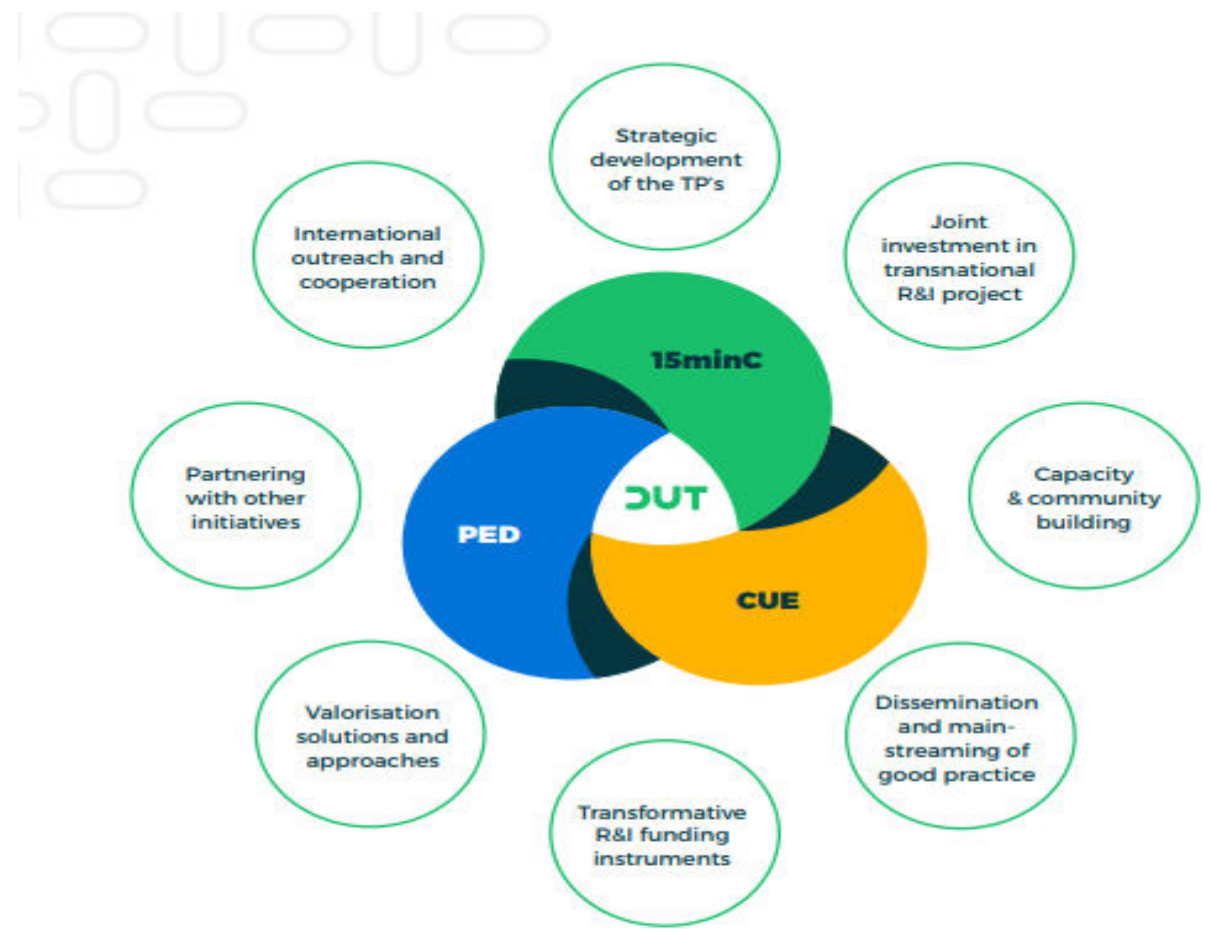
# EU DUT Partnership, Mission Innovation

- Introduction on EU DUT Partnership- PED TP
- Mission Innovation- MI Call 2023
- Questions ?



## The DUT partnership aims :

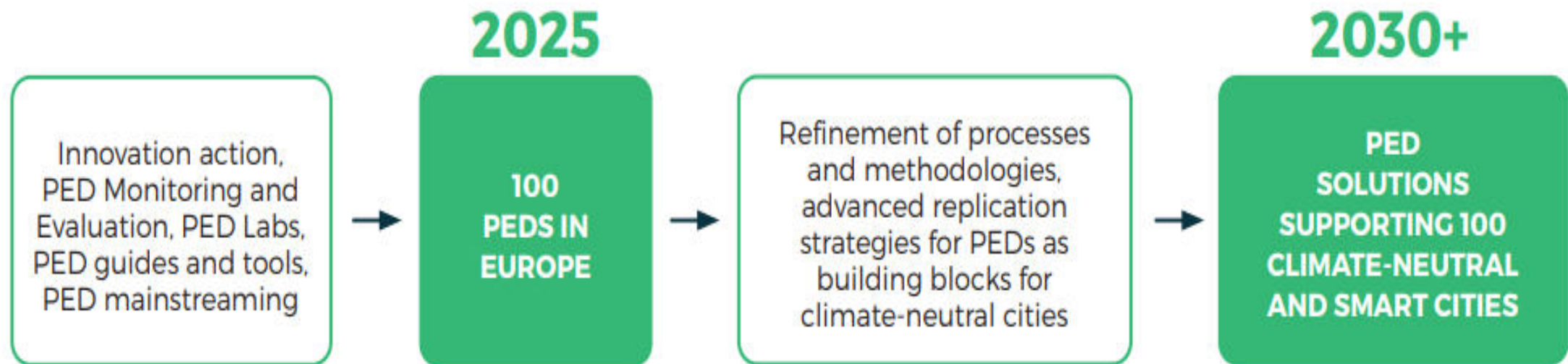
- to contribute significantly to the European and global mission on climate-neutral cities,
- The European Green Deal
- The Urban Agenda for the EU
- developing and implementing a transformative research and innovation (R&I) programme
- capacity building measures and creating evidence with and for cities and urban actors



### Facts

- A public-public partnership, co-funded by 27 European countries and the European Commission under Horizon Europe
- A consortium with 60+ national and regional R&I funders, authorities and agencies dealing with urban policy, research performing organisations and other organisations as strategic partners
- Annual calls addressing topics related to three impact pathways
- 450 million EURO minimum indicative budget for 2022-2028

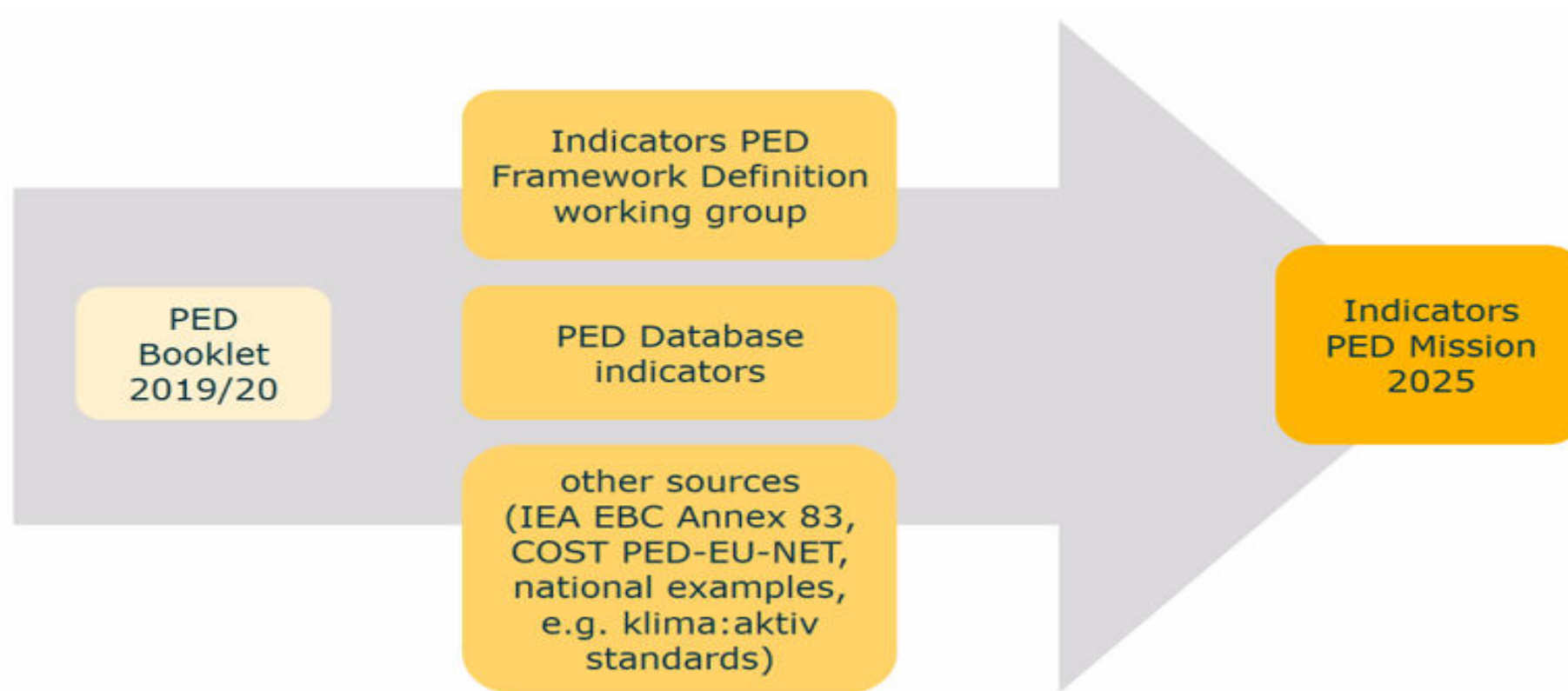
# PED Mission aligned with Mission on Climate- Neutral and Smart Cities



# Roadmap to PED Mission 2025



# Indicators PED Mission 2025

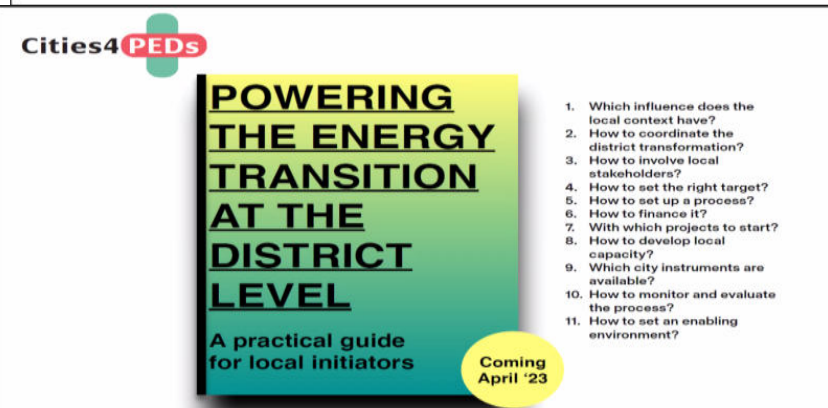


# PED projects – a some of exemples



**Cities4 PEDs**

URBAN EUROPE FFG innoviris.brussels Energimyndigheten  
ARCHITECTURE WORKROOM BRUSSELS urban innovation vienna Stockholms stad BXL WUWIEN Stadt Wien  
3E ©(a) wien3420 asperrn development AG WU WIRTSCHAFTS UNIVERSITÄT WIEN VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS FH TECHNIKUM WIEN ENERGY CITIES



**Cities4 PEDs**

**POWERING THE ENERGY TRANSITION AT THE DISTRICT LEVEL**

A practical guide for local initiators

Coming April '23

1. Which influence does the local context have?
2. How to coordinate the district transformation?
3. How to involve local stakeholders?
4. How to set the right target?
5. How to set up a process?
6. How to finance it?
7. With which projects to start?
8. How to develop local capacity?
9. Which city instruments are available?
10. How to monitor and evaluate the process?
11. How to set an enabling environment?



INTEGRATION OF INNOVATIVE TECHNOLOGIES OF POSITIVE ENERGY DISTRICTS INTO A HOLISTIC ARCHITECTURE

# INTERACT

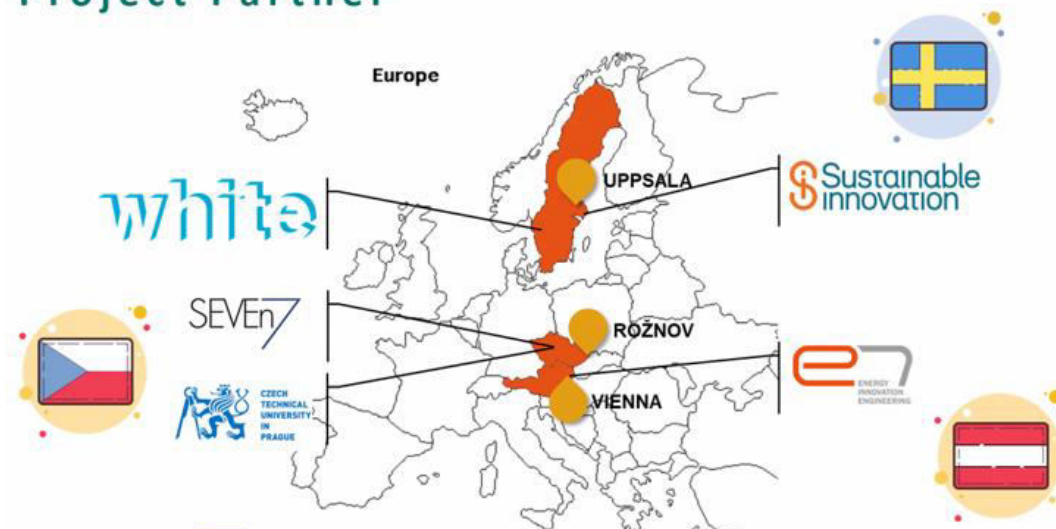
project consortium about ▾ regions ▾ activities ▾ contact

[Interact Project Homepage | PED INTERACT \(ped-interact.eu\)](https://ped-interact.eu)

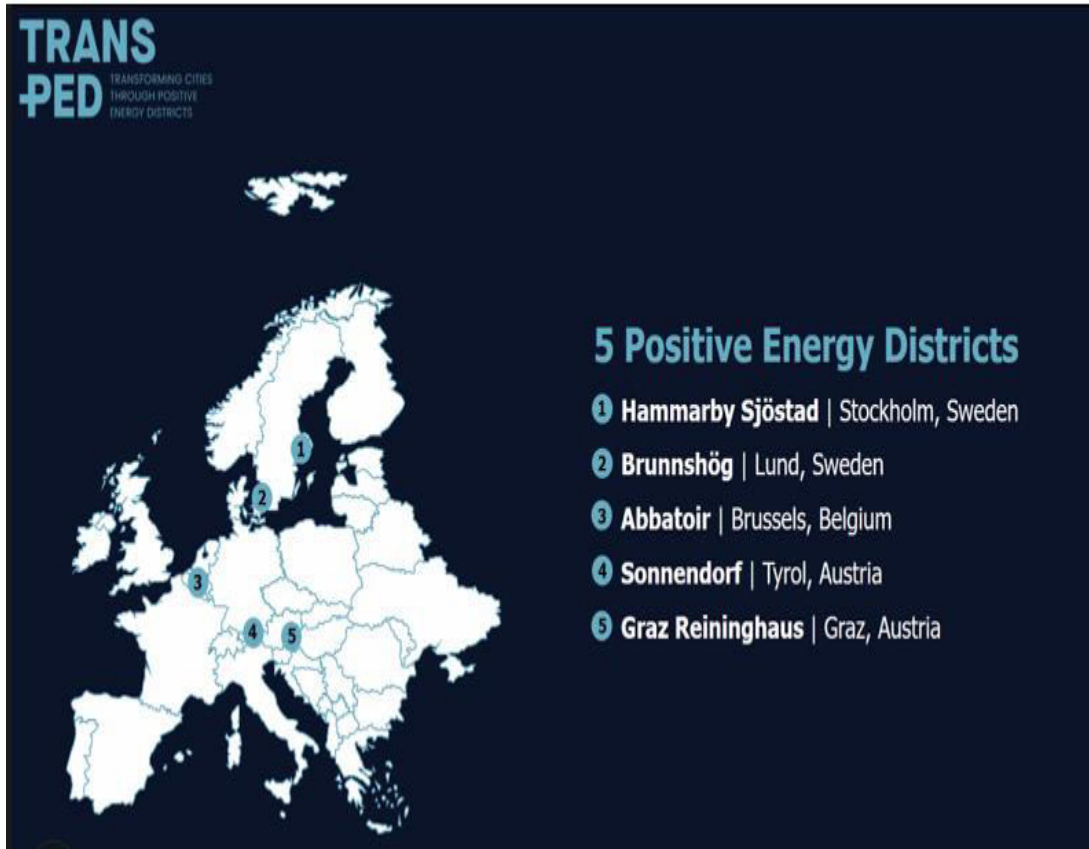
# PED projects – a some of exemples



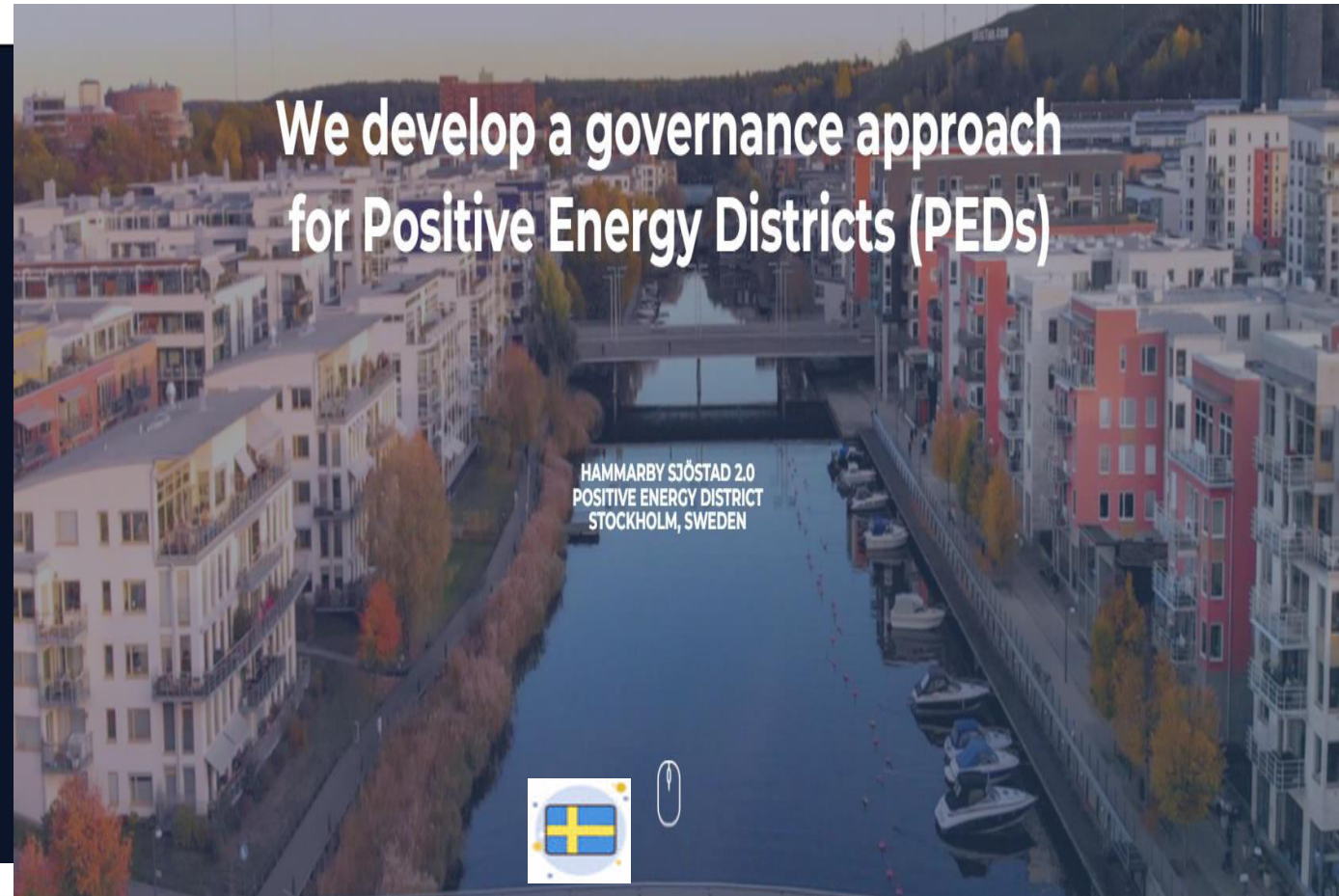
## Project Partner



# PED projects – a some of examples



[Home - Trans-ped](#)



## A Global Forum

for governments who are committed to pioneering clean energy innovation.



### Members:

- 23 Countries
- EU Commission

### Collaborators:

- World Bank Group
- IEA
- IRENA
- Global Covenant of Mayors for Climate and Energy
- World Economic Forum
- Breakthrough Energy Coalition
- Mission Possible Partnership

## MI CALLS: The Public Funders Dialogue Team



Anna Wang



Hans-Guenther Schwarz



Fredrik Lundström



Emina Pasic



Ghazal Etminan



Jonathan Rodriguez Polit



Helena Lindquist

# MICalls and Funders Dialogue

Multilateral RD&I funding calls  
(beginning with the **MICall Series**) + Dialogues between public funders  
(to discuss call topics & share knowledge)

## About the MICall Series

- Delivered in partnership with established transnational RD&I funding networks
- Participating countries fund their respective participants that pass the selection process
- Proposed topics: MICall23

## Funding Calls and Dialogues allow members to:

- Maximize impact of national innovation programmes
- Coordinate new transnational calls (e.g. through an annual planning cycle)
- Connect public funding agencies and participate in knowledge sharing
- Short route to Mobilize public funding for RD&I to support bigger missions

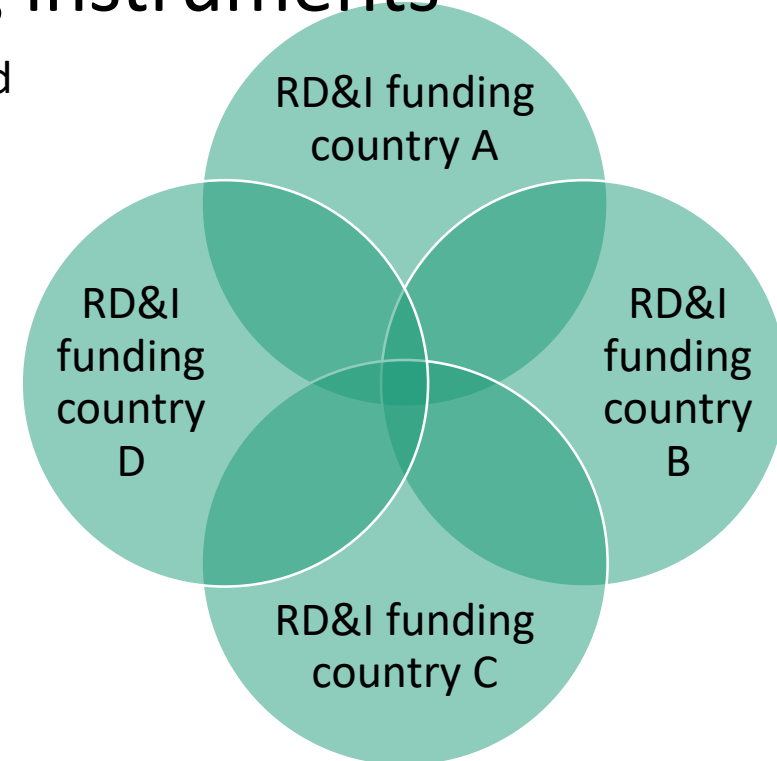
## A Global Network of RD&I Stakeholders

### The challenges

- National and regional public funding instruments
- Setting up new funding partnerships and initiatives is complex and takes long time

### The opportunities

- Supporting coordination and connection of existing public funding instruments can be faster and create added value



## Vision for the Public Funders Dialogue

- Provide a global forum and space for **public funders to** share experience and knowledge, develop joint understanding and to engage in joint activities (e.g. MICalls).
- Build, connect and coordinate existing **funding networks and programmes** rather than creating new ones.
- The forum is expected to **create impact** through better and more efficient global and transnational coordination of national and regional RD&I funding.
- **Coordinate participation** in annual MI Calls

# 4th Funders Dialogue: Meeting objectives

01

Inform about MlCall  
2023:

- Topics
- Timeline
- Contributions to mission/IC goals
- Collaboration with missions

02

Mobilize ministries and  
funding agencies to  
join the MlCall 2023

03

Support participation  
of public funding  
partners

# MICall23

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Currently **MICall23** builds on work from two RD&I funding networks (Clean Energy Transition and Driving Urban Transitions)

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Calling for transnational RD&I projects

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More than 30 countries already committed

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Joint call secretariat/management provided

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Communication office provided

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# MICall23: Call Topics

- Direct current (DC) technologies for power networks
- Energy system flexibility: renewables production storage and system integration
- Advanced renewable energy technologies for power production
- Carbon capture, utilisation, and storage (CCUS)
- Hydrogen and renewable fuels
- Heating and cooling technologies 
- Geothermal energy technologies 
- Integrated regional energy systems 
- Integrated industrial energy systems
- Clean energy integration in the built environment

# MICall23: Call Topics

- Energy Resilience and Energy Poverty ← **DUT PED**
- Urban Regeneration and Refurbishment ←
- Enabling Systems for Local Energy Transitions:  
Collaboration and Sustainable Investment ←
- The Built Environment as a Resource Base
- Knowledge and optimisation of resource flows  
between urban and rural areas
- Planning and Designing urban areas with Nature:  
Towards a Regenerative Urbanism
- Integrated Policies and Evidence to Reduce Car-  
dependency
- Mobility and Planning Policies for Proximity-  
oriented Developments
- Empower People for Urban Mobility Transitions

# MI Call 23: Collaboration with MI Missions and Innovation Platforms



- Urban Transitions (Giorgia Rambelli)
- Green Powered Future (Luciano Martini)
- Net Zero Industries (Elvira Lutter)
- Carbon Dioxide Removal (Aage Sta ngeland)
- Clean Hydrogen (Matthijs Soede)
- Innovation Community on affordable heating and cooling (Graeme Maidment)

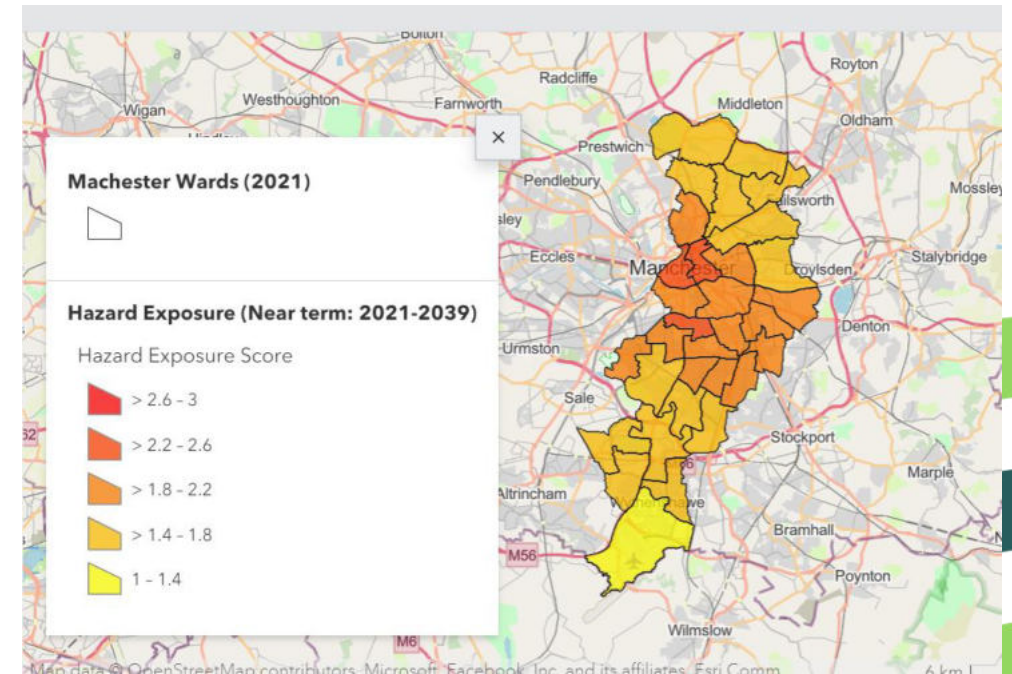
# MI Innovation Community Affordable Heating and Cooling of Buildings – Priority areas

- Grid integrated control of buildings
- Heat action platform
- Nature based solutions
- Comfort and climate box
- Thermal comfort driven controls
- Industrial heating and cooling



# Heat action platform

- Tool for city officials
- Aims at reducing the human and economic impacts of extreme heat
- Currently being tested with city officials
- Action plan for research and innovation



Adrienne Arsht-Rockefeller Foundation Resilience Center

Who we are | What we do | How we work | Heat Action Platform

One Billion People More Resilient

HEAT ACTION PLATFORM EN ESPAÑOL

## Welcome to the Heat Action Platform!

Try the Heat Action Policy Tool. Search for existing solutions that match your community.

The Heat Action Platform is a place for city officials, practitioners, and financial institutions to find guidance on reducing the human and economic impacts of extreme heat at the regional or municipal level.

HEAT ACTION MODULES

The screenshot shows the homepage of the Heat Action Platform website. The header includes the logo of the Adrienne Arsht-Rockefeller Foundation Resilience Center and a navigation menu with links for 'Who we are', 'What we do', 'How we work', and 'Heat Action Platform'. Below the header is a banner with the text 'One Billion People More Resilient'. The main content area features a large image of a modern building with a green roof and a walkway. The text 'Welcome to the Heat Action Platform!' is prominently displayed. A call-to-action button says 'Try the Heat Action Policy Tool. Search for existing solutions that match your community.' Below this, a paragraph describes the platform as a place for city officials, practitioners, and financial institutions to find guidance on reducing the human and economic impacts of extreme heat at the regional or municipal level. A circular logo in the bottom right corner says 'HEAT ACTION MODULES'.

# How can we contribute to MI Calls

- Modules
  - Heating and cooling,
  - Positive energy districts
  - Industrial



# Our Global Innovation Alliance



Core Team

Co-leads



Core Mission Members

Austria – India – Spain –  
Saudi Arabia – Sweden



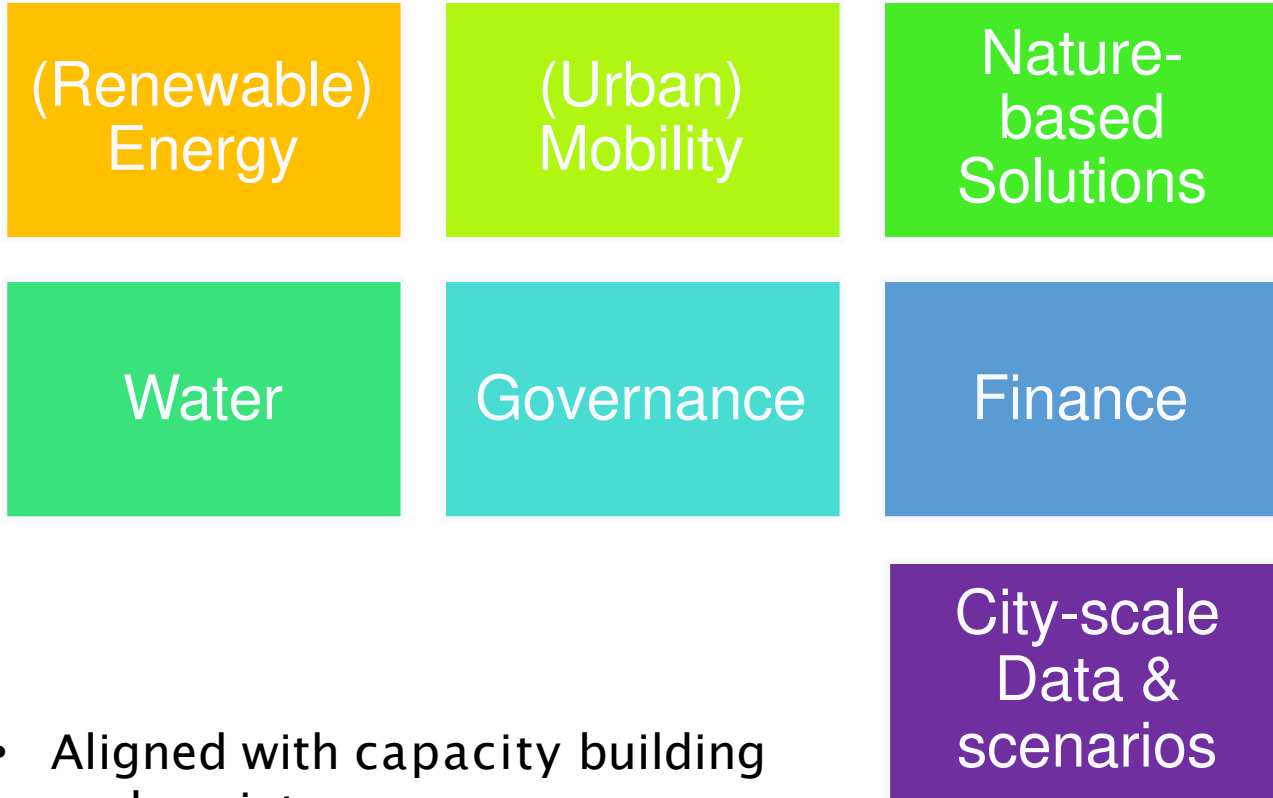
MI Innovation Community  
on Affordable Heating and Cooling of Buildings



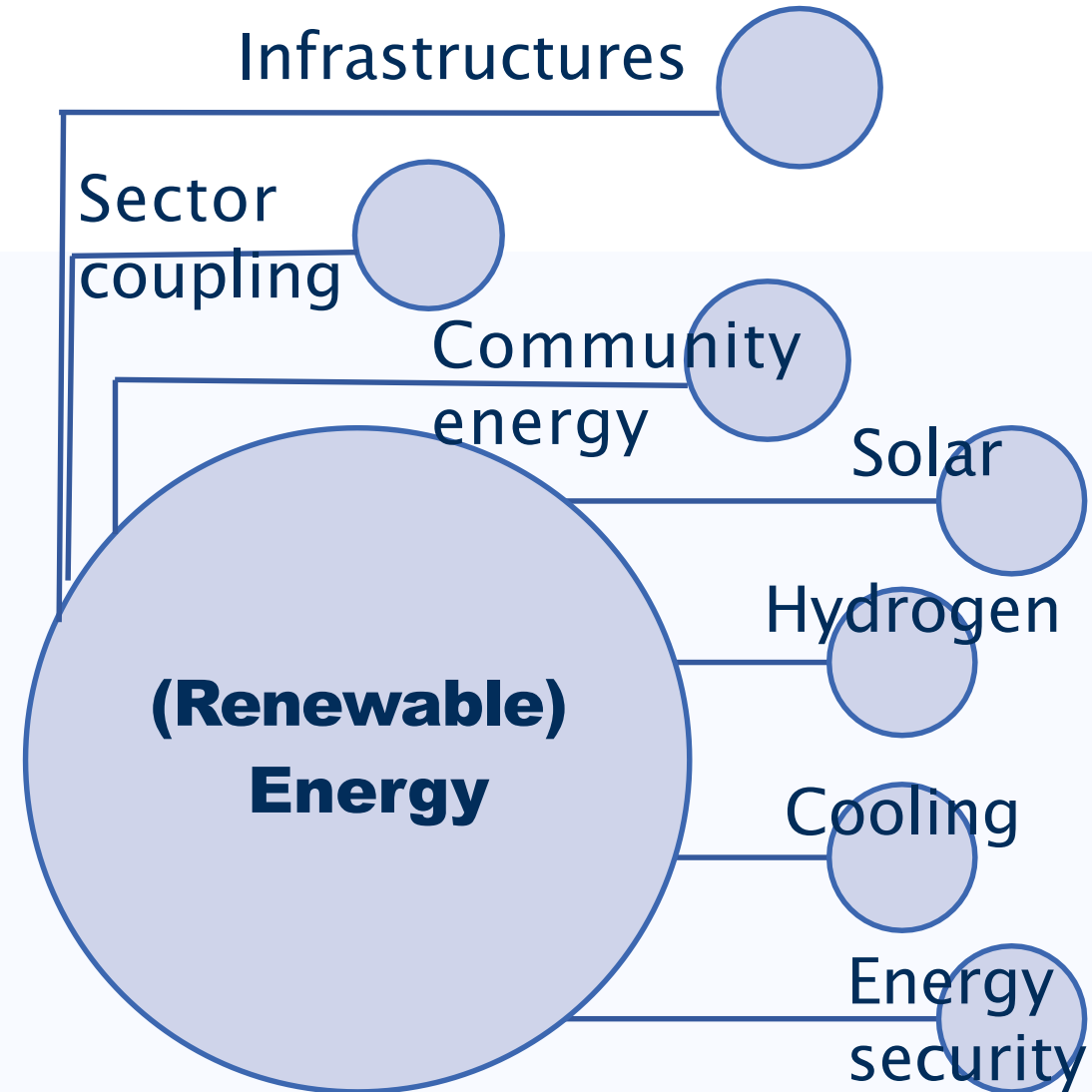
Mission Support Group



# MI UTM Clusters



- Aligned with capacity building and assistance
- More can be added & specific subgroups identified – e.g. scope 3 emissions, SBTs, industry, citizens' engagement



# Priority challenges & sought solutions



- Building what exists & link with ongoing initiatives – many cities have access to methodologies, tools, approaches, databases
- Emphasis on development and deployment
- Focus shifting from pilot to scale – including implementation & access to funding
- Key areas:
  - Energy poverty, energy access, energy security
  - Resilience (making the case for green & blue)
  - Digitalization as a (affordable) tool
  - Moving from data access to developing and understanding scenarios
  - interconnections and sector coupling
  - Governance & citizens (behavioral impacts)



# Timeline MCall23 – How to participate?

**National Agencies and Ministries- Funders**

**Applicants**



# MI CALL2023: Next steps

**Funders interested** in participation – Tour de table ,Emina Pasic

Next steps:

- Bilateral meetings with interested funding partners
- Contact Funders Dialogue team:
  - Fredrik Lundström [Fredrik.Lundstrom@energimyndigheten.se](mailto:Fredrik.Lundstrom@energimyndigheten.se)
  - Anna Wang [anna.wang@bmk.gv.at](mailto:anna.wang@bmk.gv.at)

**Applicants:**

[Driving Urban Transitions  
to a sustainable future -  
DUT Partnership](#)

[Clean Energy Transition  
Partnership  
\(cetpartnership.eu\)](#)



# Swedish Energy Agency



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