



Driving Urban Transitions to a sustainable future

Workshop "Heat Pumps in PED" - PED in DUT Partnership
Emina Pasic, Vice Chair DUT PED Transition Pathway

EUROPEAN PARTNERSHIP



Co-funded by
the European Union

About

DUT 's Vision

A climate neutral and resilient urban future for all



DUT 's Mission

To fund transformative research and innovation to build capacities of urban stakeholders and empower them to drive urban transitions in Europe and beyond.

The Driving Urban Transitions (DUT) Partnership to a sustainable future is **an intergovernmental research and innovation programme.**

DUT is shaping and managing a **transnational innovation ecosystem on urban transitions.**

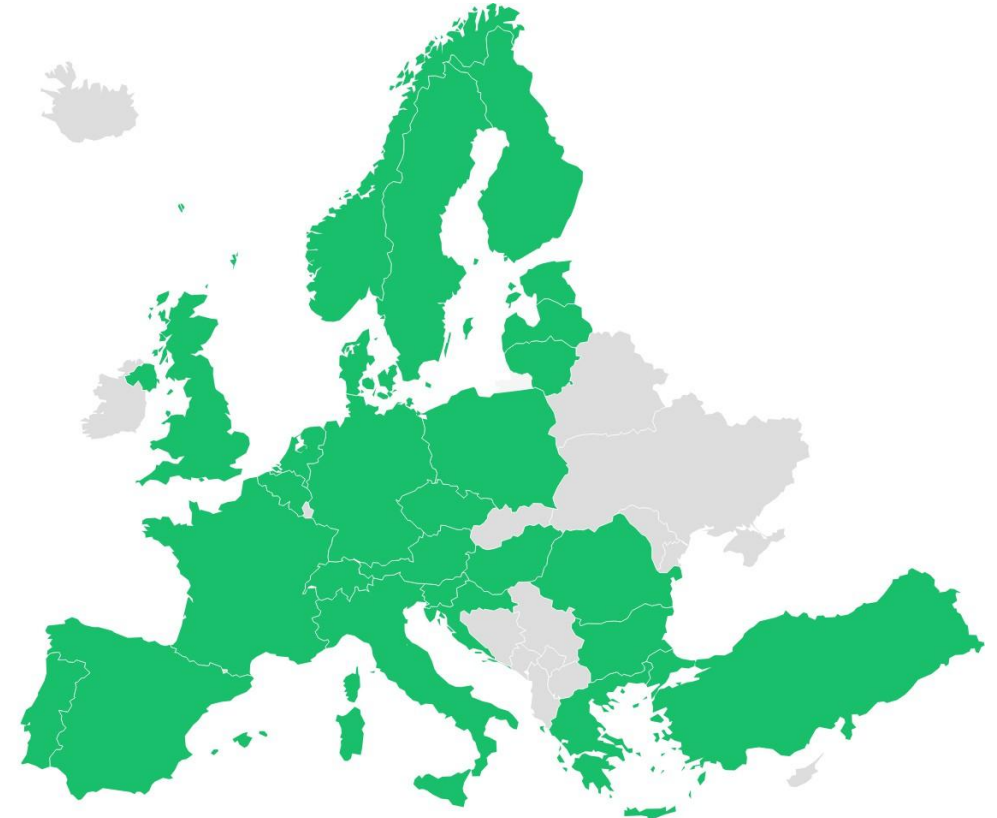
The DUT Partnership

Shaping and managing a transnational innovation eco-system on urban transitions

Public-public partnership for research and innovation, co-funded and co-created by **70 partners** from **31 countries**, and the European Commission

Core activity: 7 R&I calls – 450 M EUR budget

- 2022-2024 DUT calls:
 - **136 projects**
 - **261 participating cities**
 - **53 Cities Mission cities**
- **2022 projects in final year of implementation**
- **2026 call under preparation**
- **Remaining calls: 2027, 2028** (*maybe additional ones – tbc*)



Created with Datawrapper

+ **Tunisia and South Korea** as of summer 2025

Global Funding Agencies

Global Funding Agencies involved in DUT since 2022

JST (Japan)
FAPESP (Brazil/Sao Paulo)
FRQ (Canada/Quebec)
KAIA (Republic of Korea)
NSTC (Chinese Taipei)
Tunisia (MHESR)

Additional Global Funding Agencies interested in DUT Call 2026

ANII (Uruguay)
CONFAP (Brazil)
Enterprise Singapore
KIAT (Republic of Korea)
Montenegro (Ministry)
NRC (Canada)

Global Project Partners involved in DUT (beneficiaries and non-beneficiaries) Total 29

Brazil (3)

Non-profit (1), University (2)

Canada (10)

Business-SME (2), City (1), Governmental (1)
Non-profit (2), University (5)

Chinese-Taipei (7)

Business-Large Industry (1), Non-profit (1),
University (5)

India (1)

University (1)

Japan (3)

City (1), University (2)

Republic of Korea (12)

Business-Large Industry (1), Business-SME
(1), City (2), University (8)

United States of America (3)

Non-profit (2), Private/Public Research
Institute (1)

DUT builds on three Transition Pathways

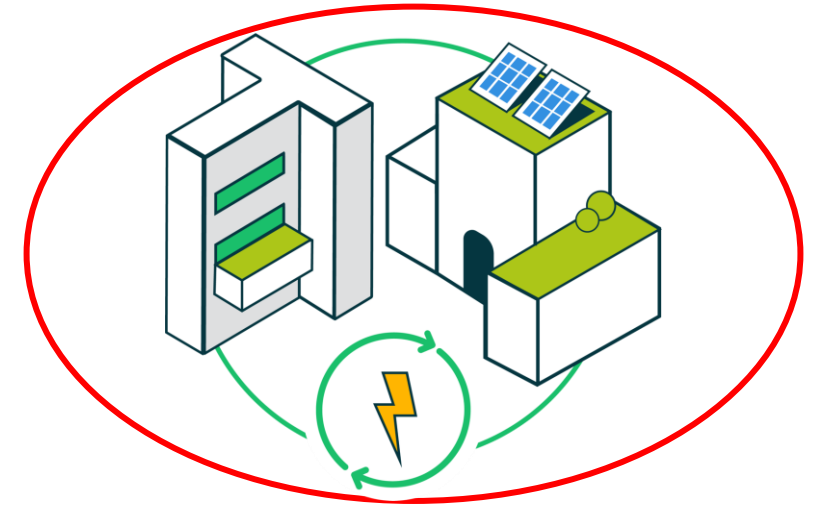
DUT-partnership accelerate urban transitions
by focusing on three thematic priorities



The 15-minute City
Boosting sustainable
mobility and proximity in
connected neighbourhoods



Circular Urban Economies
Enabling regenerative urbanism
and resource circularity



Positive Energy Districts
Pioneering climate-neutral,
resilient and socially just
energy systems

PED innovation examples

1. POSEIDON: *POSEIDON Tool*

Software tool for municipal-level energy planning in the Mediterranean

- Overcomes the challenge of evaluating PED city scenarios where detailed data is scarce, drawing on OpenStreetMap (OSM) data to create 3D models for analysis:
- **Type:** Technologies and infrastructure (Software tool)
- **Target group:** Municipal Technical Staff & Urban Planners

2. MAKING PEDs: *Visualization Web Platform*

Interactive Digital Twin interface for decision support (Web Platform).

- Central hub platform overcomes the complexity of stakeholder engagement in PED and facilitates participatory decision-making. It provides a user-friendly interface that integrates 3D city models, a Decision Support System (DSS), and calculation model: carbon footprint analysis - allowing users to visualize and select different PED development scenarios.
- **Type:** Technologies and infrastructure
- **Target group:** Public Sector (Municipalities), Consultancy Firms, and Citizens

3. FLEdge: *Hierarchical Management System*

Decentralized hardware and software ecosystem for energy flexibility management.

- Supports energy flow optimization from the building level to the city level. It provides a solution through two components: the Edge-Energy Management device (hardware), installed at the building level to support local optimization (i.e. load shifting), and Edge-Energy Management Nodes (software), which coordinate flexibility at neighborhood and district levels.
- **Type:** Technologies and infrastructure (Hardware/Software)
- **Target group:** Building Managers, Grid Operators, and City Authorities

4. HeatCoop: *Model Handbook*

Comprehensive guide for establishing urban heating cooperatives.

- Overcomes the barriers to establishing resident-owned heating solutions, offering a model supporting replication initiatives. It provides a solution that combines the heat cooperative administrative model (organizational structure and legal frameworks) with the appropriate business/financial model. Includes tools for cash flow and risk assessment to help cooperatives, investors, and regulators evaluate viability.
- **Type:** Business models and tools; Governance and Policy
- **Target group:** Cooperative Founders, Banks/Investors, and Regulators

5. DigiTwins4PEDs: *Energy Data Standard (ADE 2.0)*

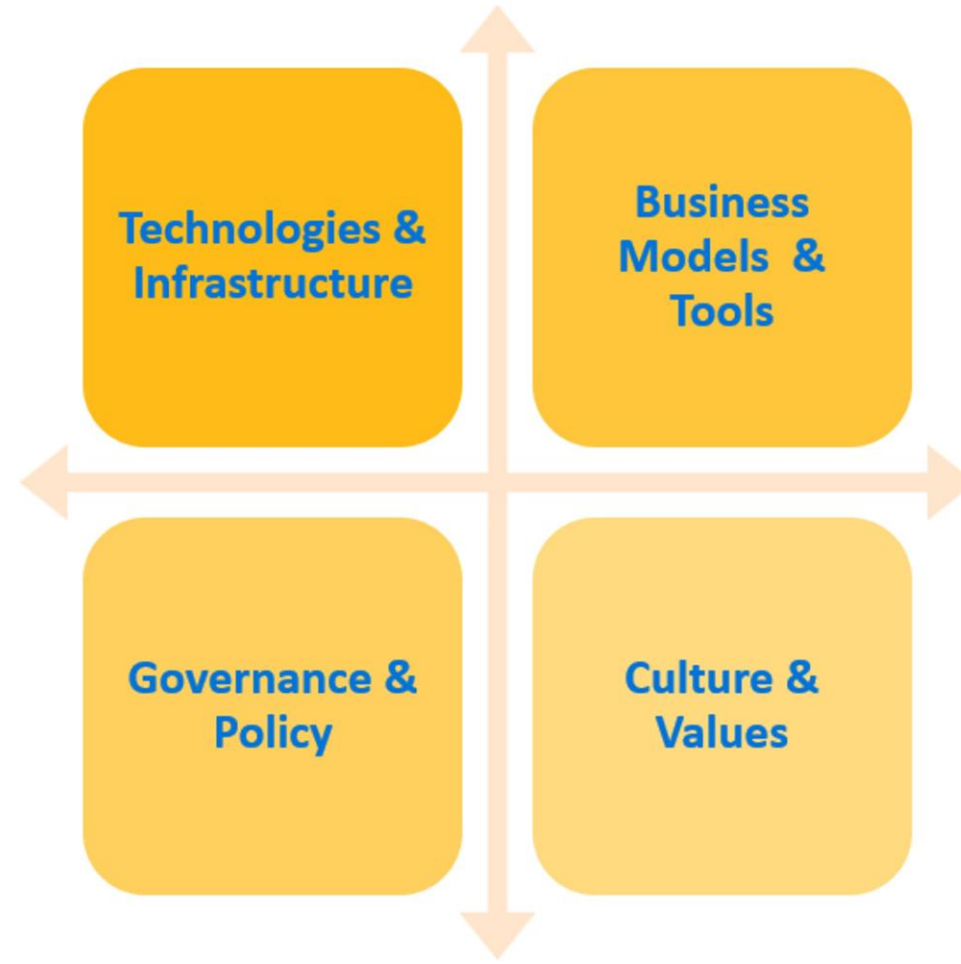
Standardized data model for 3D city energy information.

- Addresses the interoperability and data exchange challenges between different simulation tools and city models. It builds on the existing CityGML standard with an updated Application Domain Extension (Energy ADE version 2.0). This standard defines how complex energy information is stored and exchanged, allowing energy data to be visualized consistently across different geographic scales.
- **Type:** Technologies and infrastructure (Data Standard)
- **Target group:** Software Developers, Urban Modelers, and Researchers

The DUT Approach to Urban Transitions



Driving Systemic Urban Change - Dimensions of Urban Impact



About MICalls

Mission Innovation members and funders collaborate through MICalls to drive global RD&I.

What is Mission Innovation?

Mission Innovation (MI) is a global initiative of 23 countries and the European Commission working to catalyze investment in clean energy research, development, and demonstration to make clean energy affordable, attractive, and accessible to all. Through MICalls, MI members collaborate on joint funding calls to accelerate clean energy innovation worldwide.

The MICall Series

The MICall series represents a coordinated effort among Mission Innovation member countries to jointly fund international RD&I projects. Since MICall19, this collaborative approach has grown from 16 participating countries to over 40, with cumulative funding exceeding \$700 million across hundreds of selected projects.

CALL TOPICS

What MICall26 funds

MICall26 is delivered through two co-funded European partnerships covering clean energy systems and climate-neutral cities. The CETPartnership Joint Call 2026 (the fifth annual call) is now published, with its launch event on 26 May 2026. Below are all the call modules and topics open under MICall26.

Two calls, one MICall26

MICall26 is delivered through the CETPartnership Joint Call 2026 and the DUT Call 2026. Each network runs its own timeline — track both below.

Joint Call 2026

[Official call page](#)

- 26 MAY 2026**
Launch event
NOW
- 8 JUN 2026
Pre-proposals open
- 9 SEP 2026
Q&A session
- 8 OCT 2026
Pre-proposals close
- JAN 2027
Full proposals open
- MAR 2027
Full proposals close
- END JUN 2027
Funding decisions
- SEP–DEC 2027
Projects start

DUT Call 2026

[Official call page](#)

- JUN 2026
Preliminary call topics shared
- JUL 2026
Draft call text
- 1 SEP 2026
Stage 1 opens (pre-proposals)
- 17 NOV 2026
Stage 1 closes
- FEB 2027
Stage 2 opens (full proposals)
- 15 APR 2027
Stage 2 closes
- JUL 2027
Funding decision announced
- END 2027 / EARLY 2028
Projects start



30+ Countries

20+ EU Member States
+ 10 Associated Countries

47+ Funding Partners

Funding Agencies
& Ministries

Top-up

European Commission is the
single biggest financing
organisation

13 Coordination Units

Coordinator: BMK / SWEA

Annual Calls for RTDI Projects

100 – 140 M € per year
2022 - 2027

CALL 2025

Approximately
100 M €

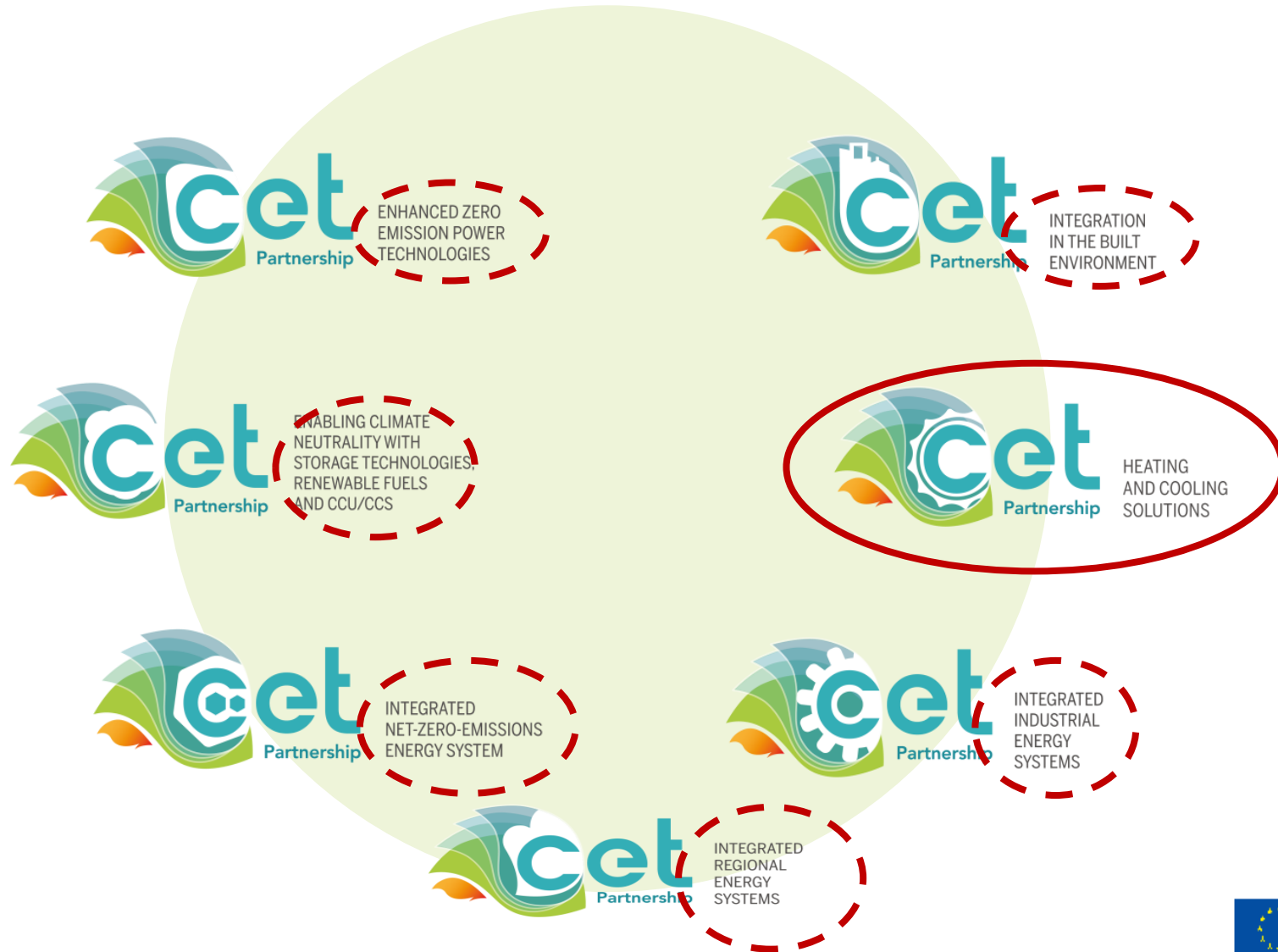


Massive Funding for Clean Energy Transition (2022–2027)

CET Partnership mobilises over €1 billion overall for clean energy, research and innovation

- Total annual budget: Over **€100 million** from over 40 funding organisations and with co-funding from the EU.
- Total funding for the 2022–2027 period: **Over €700 million**, over the course of the 6-year program include EU-funding.
- **30+ countries involved.** Includes EU member states, associated countries, and global partners from both Asia and North America.

Overview of TRIs



[MI Call Series – Mission Innovation \(mission-innovation.net\)](https://mission-innovation.net)

[Clean Energy Transition Partnership \(cetpartnership.eu\)](https://cetpartnership.eu)

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



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