



**25-26 JUNE 2024**

**VALENCIA**

**EMPOWERING CITIES - THE  
CLIMATE-NEUTRAL AND SMART  
CITIES MISSION IN ACTION**





# Climate City Contract Lab

25 June 2024

14:00 – 15:30



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# Welcome to the CCC Lab

Mission cities: Bristol, Bologna, Milano, Miskolc.

Hosted by: ICLEI, DML, BwB

Demsoc, Polimi.



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# Opening & Moderation

**Marina Littek, ICLEI ES**

Aim of this session:

**Inspire you to submit your CCCs this autumn!**

Your "map", tool for collaboration ; your transition narrative.



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# Agenda

## Introduction

- a.** "Pack your bags" for CCC submission ( ICLEI)
- b.** CCC coherence & Mission Transition team (City of Bologna)

## Breakout rooms

- a.** Democracy, Governance, Social Innovation (AP)
- b.** Inventories and Impact Pathways (AP)
- c.** Investment plan & Innovative finance (IP)



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# "Pack your bags" for CCC submission

**Francesco Palmia**

ICLEI ES

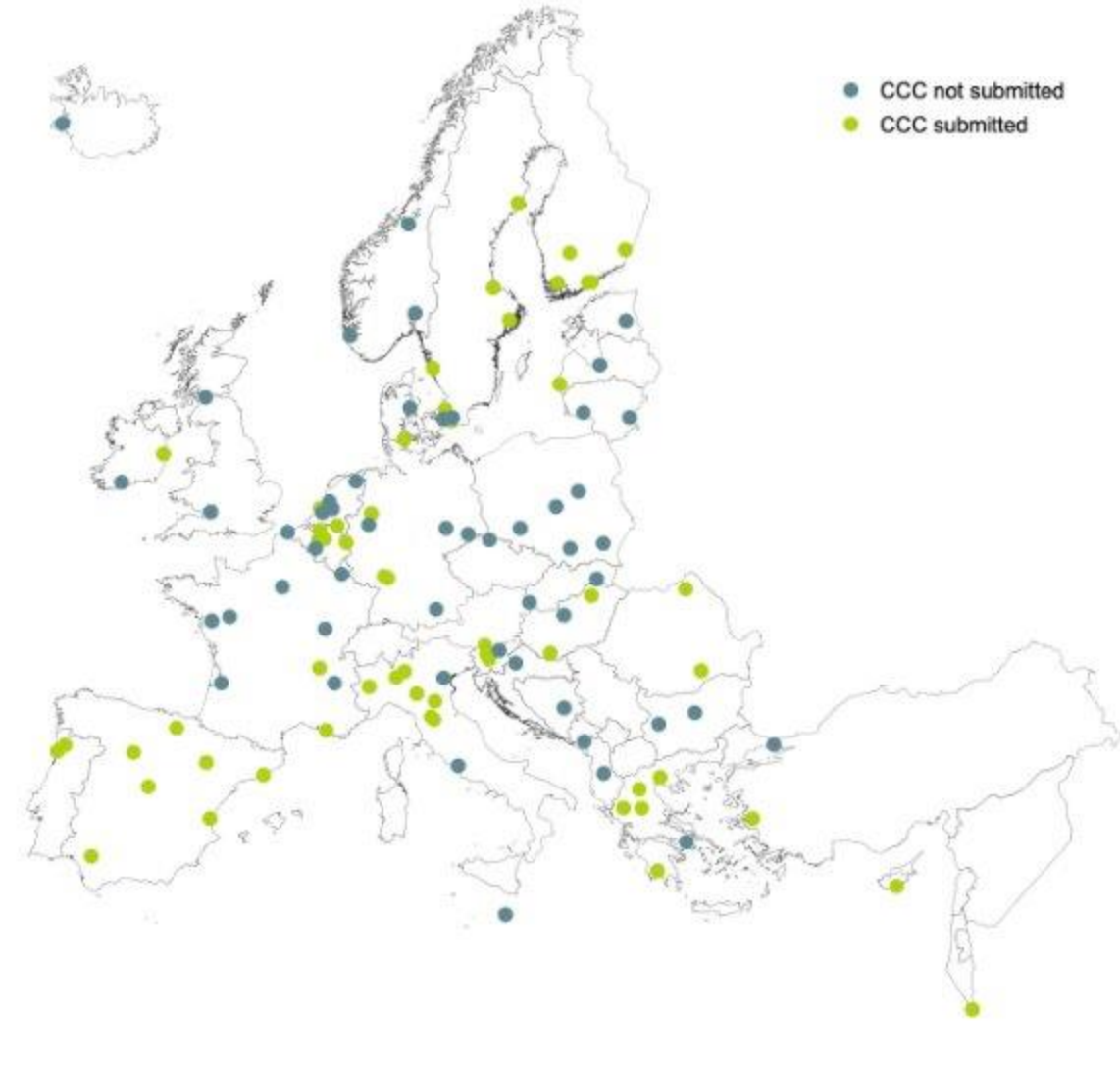


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# Objectives

- Next steps before submission (2-16 September)
- Checklist 2.1 – questions to look out for.





# Window 4 - Timeline and next steps

## Review of CCC drafts

- **When:** Until August 2024.
- **Who:** NetZeroCities Consortium
- Share a draft as **early** as feasible. Include a **draft checklist (word)**.

## Coherence and completeness check

- **When:** September/October 2024
- **Who:** NetZeroCities Consortium

## EC review of CCCs

- **When:** For 4 months from submission
- **Who:** RTD, JRC, EIB, IFRs



## Submission window

**When:** From September 4<sup>th</sup> to September 16<sup>th</sup>, 2024

What:

- Climate City Contract (Commitments AP, and IP)
- Online Completeness and Coherence Checklist







# Window 4 - Timeline and next steps

## Before submission

### Review of CCC drafts

- **When:** Until August 2024.
- **Who:** NetZeroCities Consortium
- Share a draft as **early** as feasible. Include a **draft checklist (word)**.

### Coherence and completeness checklist

- **When:** September/October 2024
- **Who:** NetZeroCities Consortium

### EC review of CCCs

- **When:** 4 months long after submission
- **Who:** RTD, JRC, EIB, IFRs

Before submission of the CCC , we highly recommended you use the Checklist to:

- **Self-assess** on completeness and coherence of the CCC document ahead of submission.
- **Get familiar with what is required** and arrive prepared to the submission deadline
- **Help organise your draft** of the Climate City Contract.

**Tip for W4 cities : when sharing your draft CCC for review, attach a draft checklist too.**





# Window 4 - Timeline and next steps

## After submission

### Review of CCC drafts

- **When:** Ongoing until August 2024.
- **Who:** City Advisors and City Support Groups
- Share a draft as **early** as feasible. Also include a **draft checklist in word**.

### Coherence and completeness check

- **When:** September/October 2024
- **Who:** NetZeroCities Consortium

### EC review of CCCs

- **When:** 4 months long after submission
- **Who:** RTD, JRC, EIB, IFRs

After the submission of CCCs, NetZeroCities reviewers will use the Checklist as a tool to:

- **Pre-validate completeness and coherence** of CCCs before submission to the EC.
- **Provide high level feedback** and identify gaps and **areas in need of further support**.

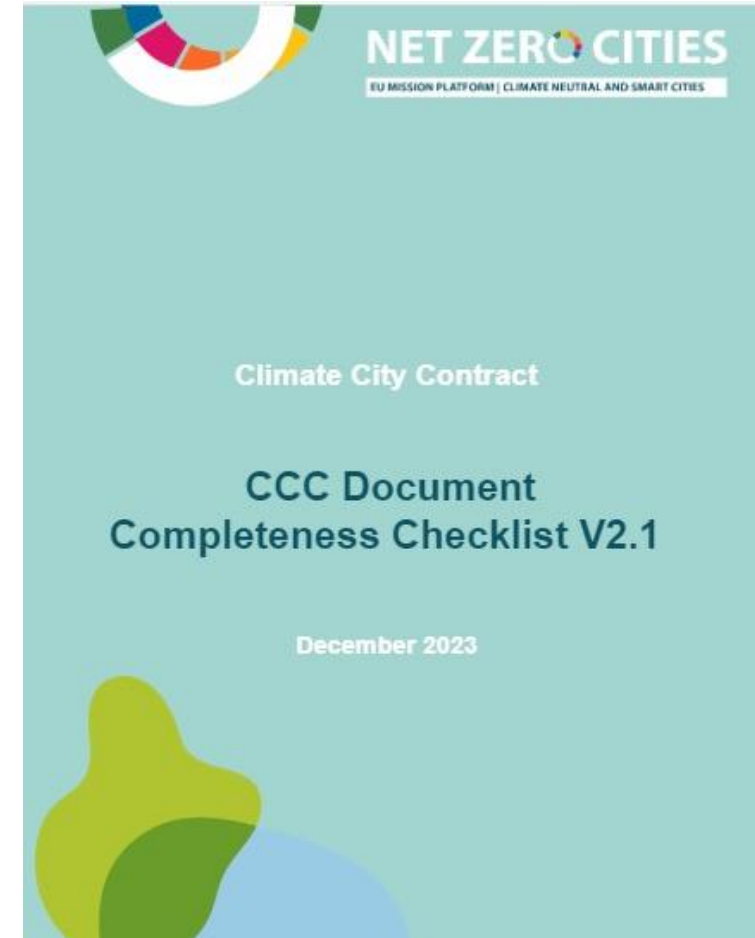




# Why use the checklist v 2.1

A **tool** for cities and reviewers:

- "Packing list" for the CCC document: for cities to **self-assess** on the completeness and coherence of the CCC document before submission.
- Identify **readiness for EC review**, and identify **areas in need of further support**.
- **NB:** The submission will **not work without**.





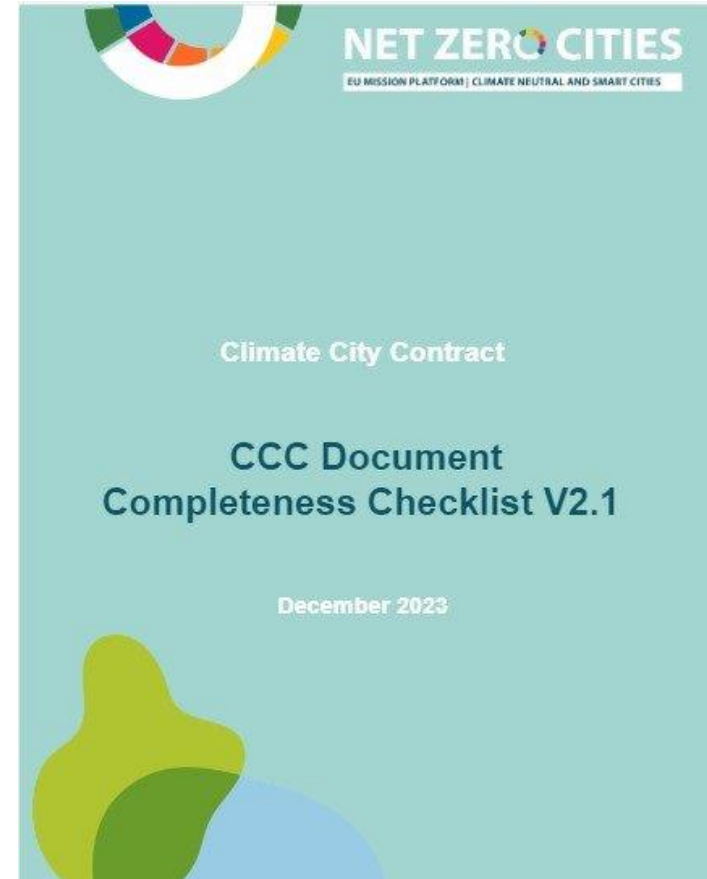
# Where can I find the checklist

## Before submission

- An **editable word version** of the CCC Completeness and Coherence Checklist is available in the [Knowledge Repository on the NZC Portal](#)
- The **digital version** of the checklist will also be available on the NZC Portal well before the submission window, in the City Dossier page.

## For Submission – digital version

In order for your submission **to be complete** you must complete the online version . A step-by-step guide will be shared with you closer to submission.





# How to use the checklist

The Checklist is divided into 3 main categories, each corresponding to one of the mandatory elements of the CCC:

- **CCC Commitment document & overall coherence**
- **CCC Action Plan**
- **CCC Investment Plan**

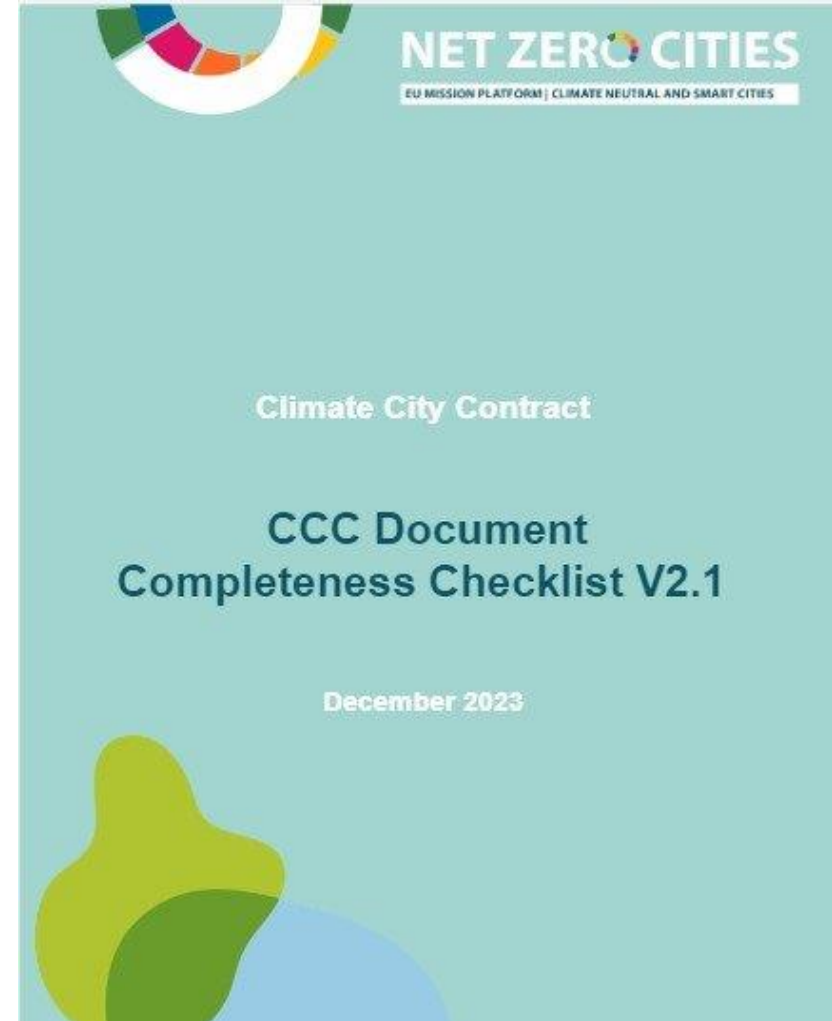
Questions either have

- two options : **Yes and No**, or
- a range of four: **A, B, C and D**.

For each question, only one answer can be selected.

For each question it is key that you specify the **name** of the document and the **place** where the question is addressed, to facilitate your CCC review as much as possible.

**Comments** are very useful too!





# Look out for these questions

## Governance and social innovation

### Building a strong mandate – COHERENCE ✓

Does the CCC show that its **objectives** and **portfolio of actions** are supported by a strong mandate, resulting from co-creation with relevant stakeholders (including public bodies, NGOs, private actors, universities, as well as stakeholders at regional and national level) for instance in a multi-actor transition team or other forms of networked governance?

### Current policies and strategies assessment – COHERENCE ✓

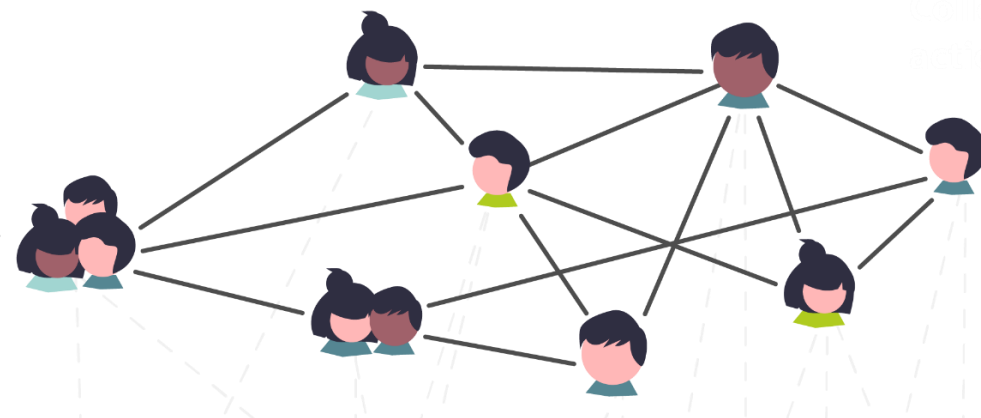
Does the CCC map existing policies and strategies at different level of governance for each emission domain, assessing their emission reduction impacts?

### Actions' ownership – COHERENCE ✓

Is each action attributed to a responsible person/organisation represented among the signatories included in the Commitments document? If not, does the CCC describe an engagement strategy to address the lack of responsible actors or the lack of signed commitments?

### Social innovation – COHERENCE ✓

Does the CCC include enabling actions, aimed at boosting social innovations, to tackle previously identified systemic barriers (e.g. by adopting a systemic approach, creating favourable environments for community-led or bottom-up initiatives to emerge, stakeholder engagement and empowerment, etc.)?





# Look out for these questions

## GHG inventory and portfolio of actions

### Neutrality Target – COHERENCE ✓

Does the CCC include a clear 2030 climate neutrality target specifying any exclusions (areas, sectors, sources, gases, scopes) in line with the EoI?

### GHG Inventory (geographic boundaries) – COHERENCE ✓

Are the geographic coverage of the GHG inventory and any exclusions (areas, sectors, sources, gases, scopes) described, and do these align with the 2030 Climate Neutrality Target coverage?

### GHG Inventory (gasses)

Are all GHG gases specified in the Mission Info Kit included in the inventory? If using CO<sub>2</sub>-equivalent, is the calculation methodology for emission factors included (i.e. which gases are present under the “equivalent”)?

### Emissions gap – COHERENCE ✓

Is the '2030 emissions gap' included in the CCC AP quantified and clearly explained?

### Portfolio of actions – COHERENCE ✓

Is each action associated with an estimate of emission reductions to coherently address the emissions gap?





# Look out for these questions

## Investment plan

### Historical Data & Context – COHERENCE ✓

Does the CCC outline historical fiscal data for the municipality and detail budgetary processes for climate actions?

### Investment Pathways

Does the CCC provide a breakdown of expected costs for the climate neutral transition?

### Investment Pathways – COHERENCE ✓

Does the CCC provide a holistic breakdown of capital requirements for climate neutrality, including identifying costs assigned to other key stakeholders and steps to engage with these stakeholders?

### Enabling Conditions – COHERENCE ✓

Does the CCC demonstrate an analysis of municipal capacity to plan and implement the financing of the climate neutral transition, including plans to address any gaps in knowledge or resource capacity?







# All the best for your submission window!



EC: Window 2 CCC ceremony in Brussels, March 2024.

- Remember to "**pack your CCC bag**": use the **checklist** from today!
- Share your city's **story**, and **back it up** with evidence and detail.
- **Ask for help**: Make the most of consortium and peer support.
  - **16 July**, Pre-Submission Info Session
  - **4 September**, Pre-Submission Info Session
  - **Online FAQs**: <https://netzerocities.app/FAQ-665996c11cd89>
- **Most importantly: Enjoy the ride!**

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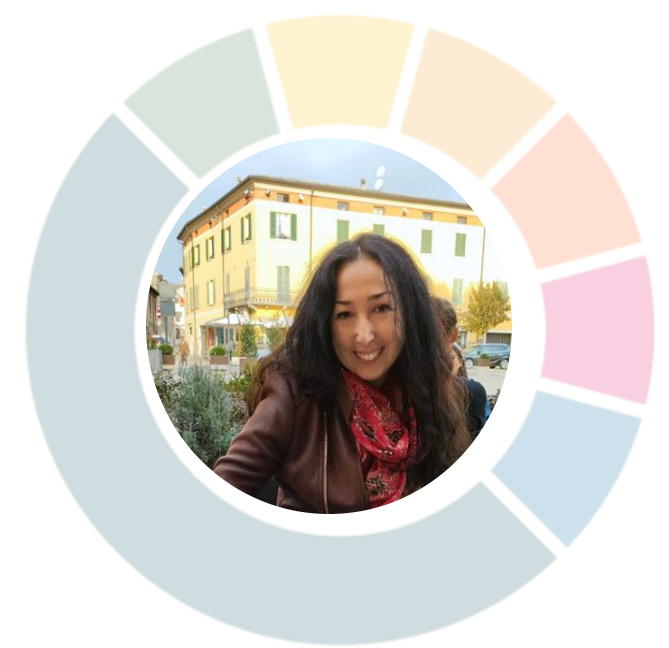


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# CCC coherence & Mission Transition team

**Chiara Cervigni, Paola Papini**  
City of Bologna



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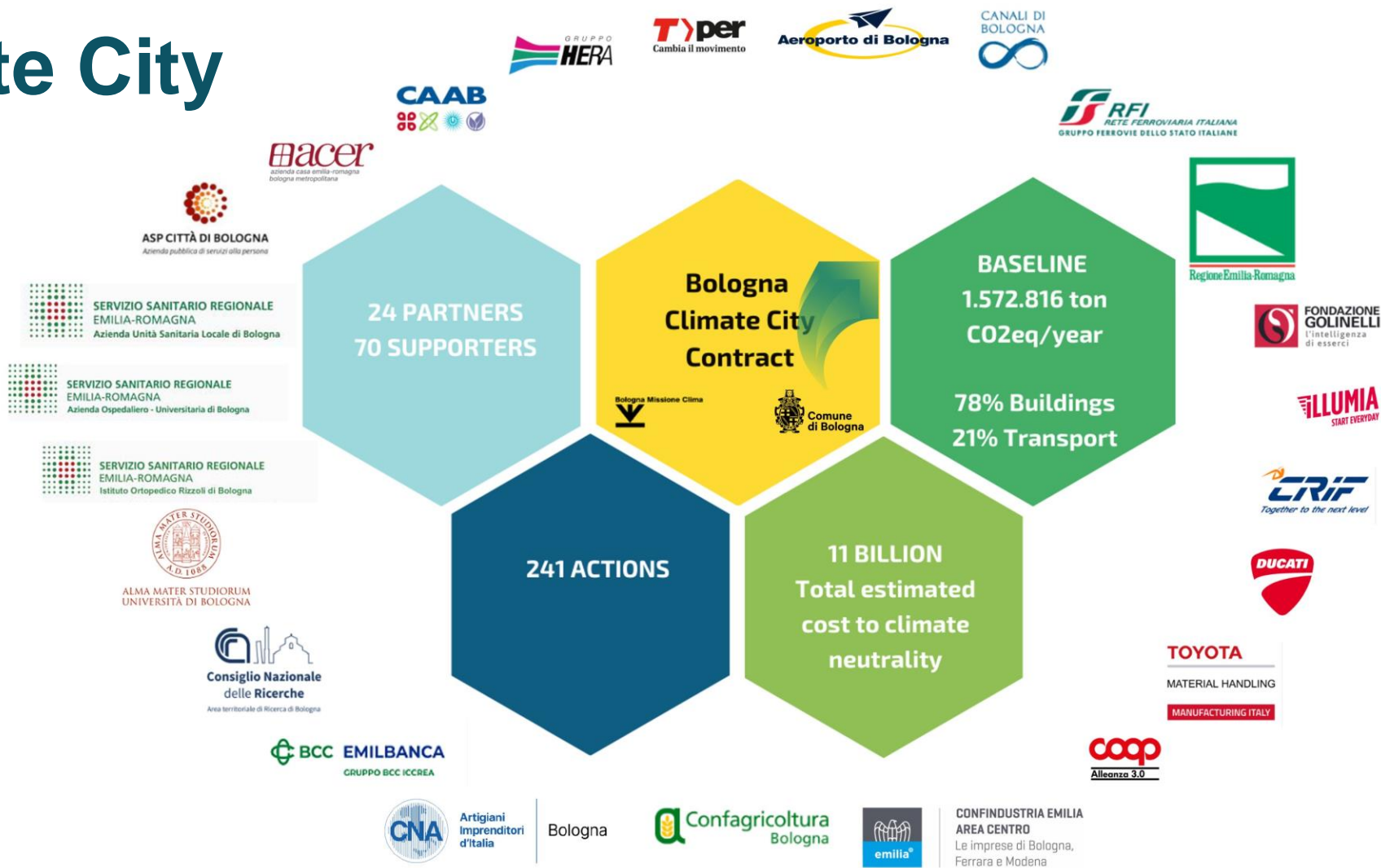
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# Bologna Climate City Contract



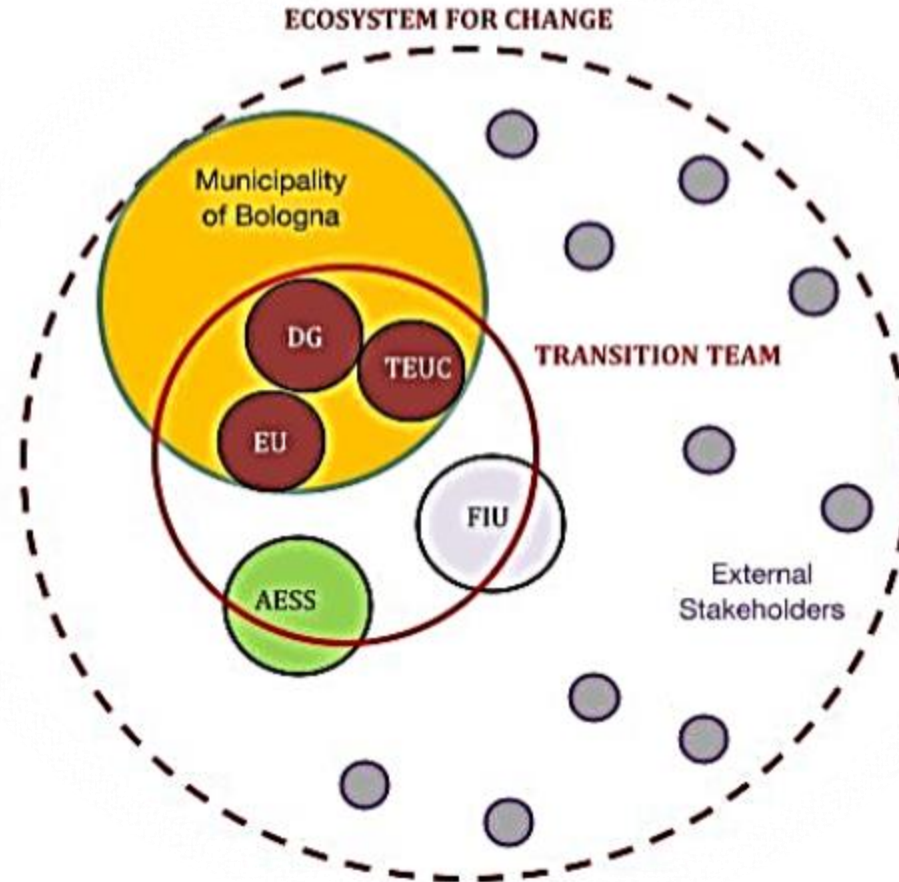
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# Bologna: our Climate Transition team

## Internal members:

- Deputy Mayor with mandate for the Mission (coordination)
- General Direction (DG)
- Ecological Transition and Climate Office (TEUC)
- EU and International Affairs Office (EU)



## External members:

Fondazione Pietro Giacomo Rusconi, Villa Ghigi, per l'Innovazione Urbana (FIU)

Agenzia per l'Energia e lo Sviluppo Sostenibile (AESS)

*Bologna Climate Transition Team (CCC Action Plan fig.4)*





# Bologna: our Climate Transition team

## External members:

- Fondazione Pietro Giacomo Rusconi, Villa Ghigi, per l'Innovazione Urbana
- Agenzia per l'Energia e lo Sviluppo Sostenibile (AESS)



## Roles:

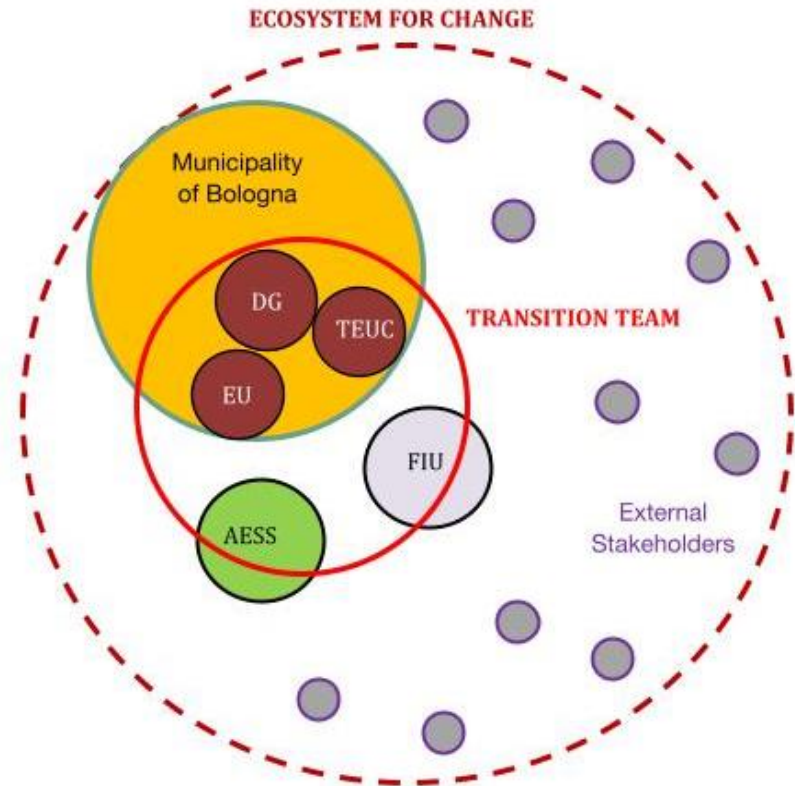
Citizens and SH participation and engagement.



Technical support to the CCC development and Energy desk management.



# Bologna: our Climate Transition team



*Bologna Climate Transition Team (CCC Action Plan fig.4)*

- Complementary skills and expertise ensuring support across processes.
- Strong coordination by the Climate Office in writing the CCC in order to be consistent across the 3 documents and ensure alignment with NZC guidelines and check list.



# Achieving a coherent CCC: our approach (1)

## Aim/challenge:

- Capturing barriers, opportunities, actions and investments from all SHs.
- Engaging citizens and capturing their proposals.



## Approach:

3 parallel processes:

- Internal governance
- External governance (SHs)
- Citizens



## Processes activated within the Bologna Climate Mission (Bologna Action Plan fig.5)



### The internal process

Questionnaire to update actions

Focus Groups with all Municipality Departments & Deputy Mayors

Bilateral meetings with Municipality Sectors

### The external process

Multi-level governance and dialogue with key national and regional stakeholders

Core partners

Follow up with core partners and further engagement of other stakeholders

19 December 2022  
Mission Launch event

5 June 2023  
Envisioning event

27 October 2023  
Call to action Launch event

Call to action

### The citizens

Energy and Environment Showroom

Sportello energia - Energy Help Desk (launched March 2023)

December 2022  
Citizens Assembly called by the Council

Preparation phase

Citizens' Assembly for Climate (May - Nov 2023)

follow up





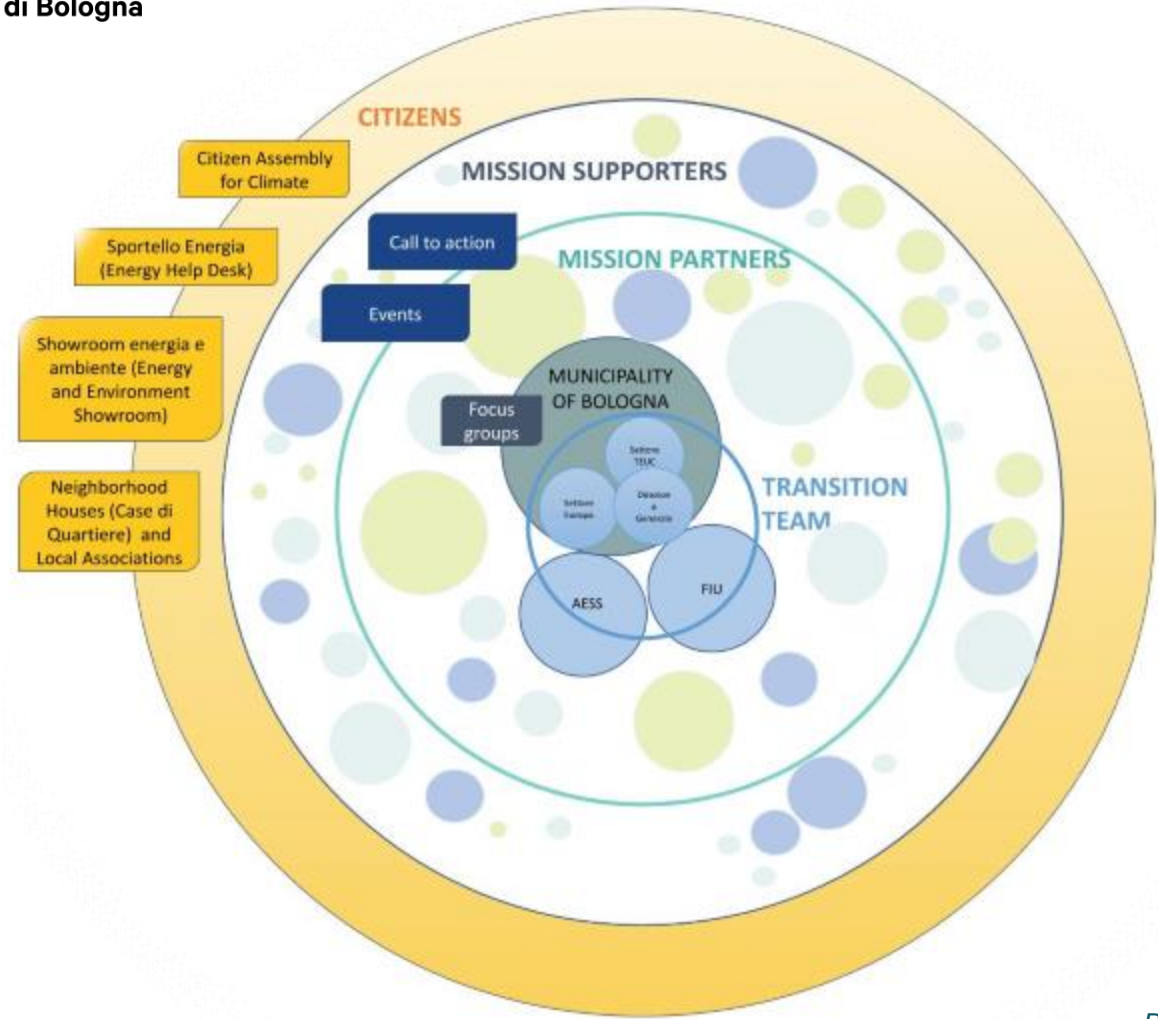


# Local governance for Bologna Missione Clima



Margherita Caprilli

Photograph by Margherita Caprilli for Fondazione Pietro Giacomo Rusconi Villa Ghigi per l'Innovazione Urbana



Bologna CCC  
Action Plan fig.22





# Achieving a coherent CCC: our approach (2)

## Aim/challenge:

- Build on where you are.
- While identifying opportunities for improvement and overcoming barriers through governance innovation.



## Approach:

- Analysis of existing policies, plans, legislations.
- Analysis of barriers.
- Analysis of how are you overcoming barriers through actions/governance.





# Achieving a coherent CCC: our approach (2)

## **AP - Module A2:**

Analysis of most relevant *policies and legislations* at all levels +

*Need for intervention* on a selection of *policies/regulations*



*Reference to Modules C1 & C2*  
*where action is ongoing or planned*

A-2.1d: Policies, strategies, relevant regulations and need for intervention			
Type	Title	Need for action	Action reference
Law	National Climate Law	The Municipality of Bologna believes it is necessary to promote the development of a national law for climate as happened in other European countries (such as France, Germany and Spain) to define, sector by sector, the actions and tools, at a national level, to achieve climate neutrality, also by shifting the different forms of economic support from activities and actions that	The Municipality will promote forms of discussion with all institutional levels to define the objectives, actions and tools that can be contained in the law.  Ref. Module C-1 - Multilevel Governance



# Achieving a coherent CCC: our approach (2)

**AP - Module A3:**



**Modules C1 & C2**

## Barriers

### Barrier T4 - Economic barriers

Added to this element are economic barriers: as regards public bodies, the barriers consist of often limited financial resources and poor ability to activate innovative financial instruments, for private individuals it is still difficult to access incentives and support due to a complex regulatory and administrative framework.

#### Breaking the barrier:

*Strengthen the Municipality's internal capacity to attract public funds; activation of public and private partnerships; activation of innovative financial instruments; multilevel governance actions to improve European, national and regional support tools; activation of information and support tools for citizens.*

*Action reference: Module C-1 "Building internal transversal governance", "Multilevel governance", "The Let'sGOy project"; Module C-2 "Energy Desk"; Module B-2: Public-Private Partnership Action.*

### C.2.1: Enabling social innovation interventions

Intervention name	Description	Responsible organisation/department/person	Stakeholders involved	Enabling impact	Co-benefits
<b>Energy help desk (Sportello energia)</b>	An information service aimed at citizens on the topics of renewable energy, efficiency and energy saving, activated in March 2023 as an action of the Bologna Missione Clima.	Ecological Transition Sector and Climate Office  AESS	Municipality of Bologna  Citizens	Fundamental to support citizens in the energy transition and identify citizens' needs on this issue  (Barriers T4, T6, B2, B3 - ref. Module A3)	Greater community participation in the Mission  Increased access to information, awareness and behaviour change  Greater diffusion of sustainable practices



# Key lessons learned and our advice to you

- Get the right people together.
- Think in terms of an ongoing process not a static document.
- Carefully check NZC guidelines but also the check list from the beginning.
- Be practical and concrete (numbers count...).
- Look at the big picture.





# Questions & Answers





# Breakout rooms (until 15:30)

## Stay here for:

- **Democracy, Governance, Social Innovation**  
with cities of Bologna and Milan, DML, Demsoc, Polimi
- **Inventories and Impact Pathways**  
with city of Miskolc and ICLEI. Also meet: Covenant + CDP

## Sala Martin Y Soler for:

- **Investment plan & Innovative finance**  
with the city of Bristol and BwB





# Breakout Session – Democracy, Governance & Social Innovation

25 June 2024

14:45 – 15:30



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# Democracy, Governance & Social Innovation



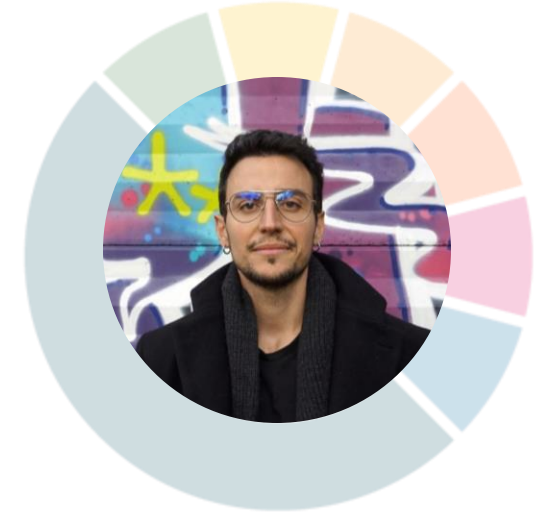
**David Brito**

Dark Matter Labs



**Lucia Nogales**

Polimi



**Jonathan Reyes**

Democratic Society





# Introduction

- (1min) Goals and structure of breakout session
- (1min) Key Points – Democracy & Governance
- (1min) Key Points – Social Innovation
- (1min) Checklist items – Democracy, Governance, Social Innovation
  
- (7min) Guest speaker – Rossana Torri from Milan
- (7min) Guest speaker – Chiara Cervigni from Bologna
  
- (15min) Questions and Answers





# Key Points – Democracy & Governance

- A compelling and inclusive narrative. **A unique, locally shaped shared vision and narrative.**
- **Just transition perspective.**
- **Systemic approach to governance.**
- **Iterative (and continuous) participative nature of the CCC.** Democratic infrastructures for distributed leadership. The city as enabler.
  - **Beyond information and behaviour change.** Enabling collective action through different spaces and formats to the different stakeholders and citizens.
  - **Beyond formal spaces.** Convivial and informal dimension of engagement.
- **From ideation to concrete Action planning with citizens.**
- **Linking climate priorities to urban planning and city-building goals.**





# Building a participated CCC

## 2030 CLIMATE NEUTRALITY ACTION PLAN (CAP)

### ANNEX I. 2030 CLIMATE NEUTRALITY ACTION PLAN OF THE CITY OF VALÈNCIA

#### INTRODUCTION

To make València a climate neutral city by 2030, and to do so by (and for) the citizens, within the context of the European Mission for 100 climate-neutral and smart cities by 2030. The València 2030 Climate Mission is our contribution from València to the EU reducing climate emissions by 55% by 2030 and becoming climate neutral by 2050.

#### How will we do it? València's perspective

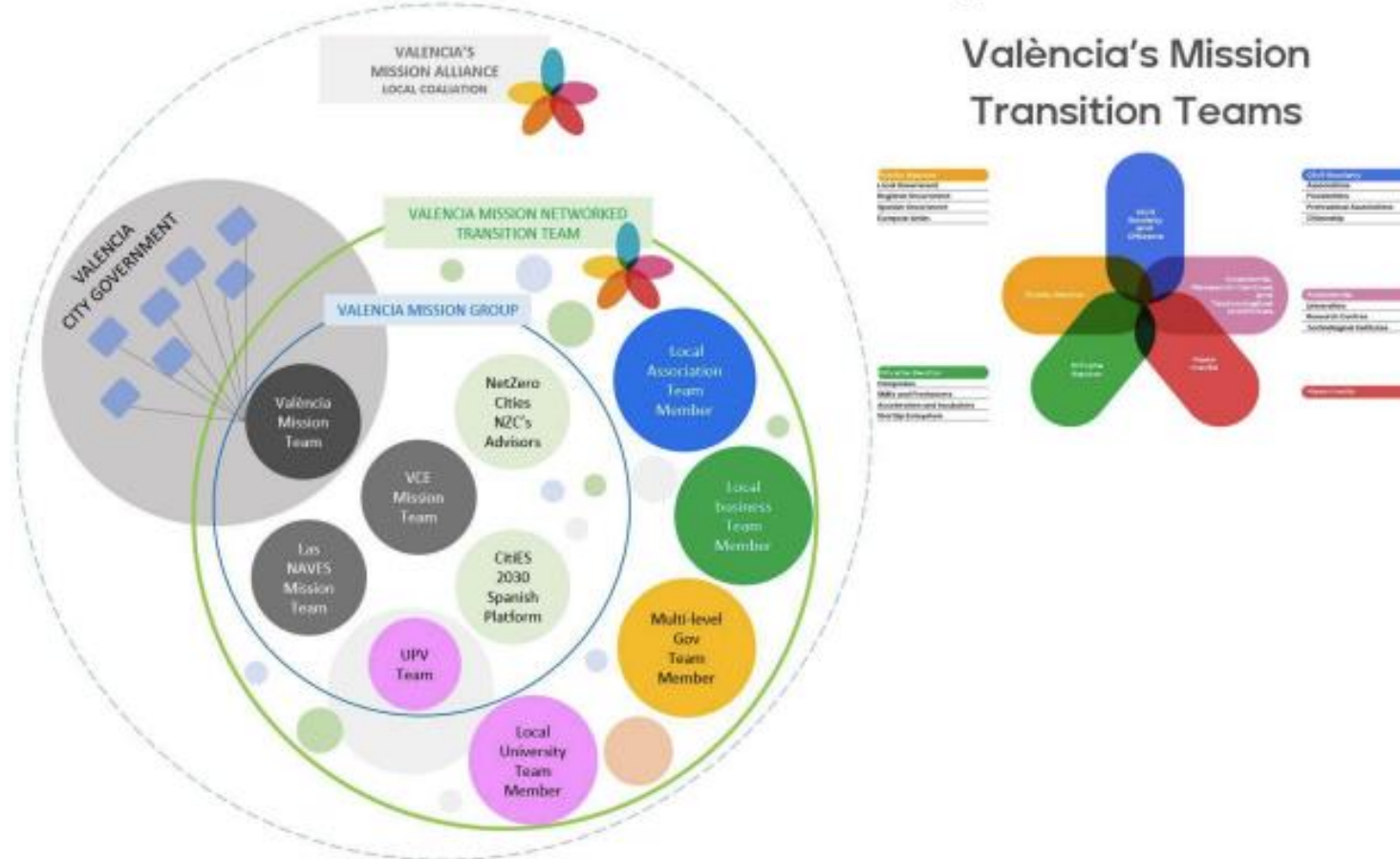
València's approach to the mission is distinctive. We propose to tackle the mission by merging the 2030 Agenda with systemic innovation oriented to the purpose of the mission. We strongly believe that the success of the SDGs and the European missions require both levers of action acting and feeding back at the same time:

- A set of bold public policies, with high impact on the purpose of the mission and inspired by the 2030 Agenda.
- Systemic innovation understood as a network of interconnected innovations, each building upon the others with innovation occurring in both the individual parts of





Figure 7: València's Mission Transition Team Diagram





## Mission Alliance

## Ciuta-LAB

## CO-LAB

## Mission Grants

+Network and programms for the collaboration between the 5 helixes of the ecosystem.

Managed through Mission Day by Day Team.

Open space to citizens for research and innovation having collaboration, experimentation, care and openness at its core.

Triple impact public accelerator for social and urban innovation startups.

Mission-oriented innovation projects subsidized through public grants



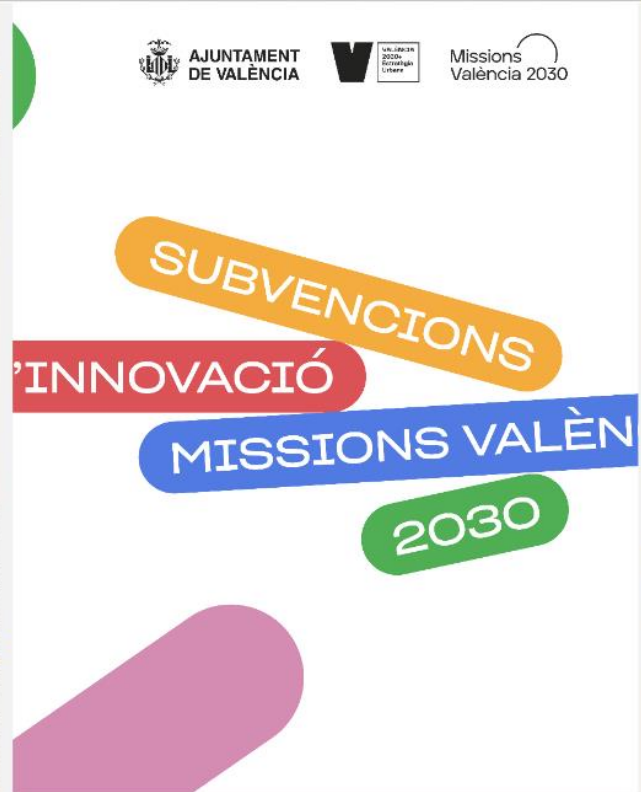
## Urban Sandbox

Urban resources (infrastructures, spaces) open to experiment in real environments new and innovative projects and formats.



## Communication

Comms strategy to attract citizens across different media and spaces.



## Public-Private investment fund

Working with crowdfunding solutions, innovative ecosystem and local venture capital firms to accelerate the startups ecosystem



## Govtech

Working with universities and innovation labs to strengthen digital infrastructure to improve collaboration and support the mission

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# Social Innovation

Develops solutions to address social needs.



NetZeroCities has received funding from the H2020 Research and Innovation Programme under grant agreement n°101036519.





# Social Innovation

Develops solutions to address social needs.

Develops **innovative** solutions to address **challenging and often systemic** social needs.





# Social Innovation

Develops solutions to address social needs.

Develops **innovative** solutions to address **challenging and often systemic** social needs.

Develops innovative solutions to address challenging and often systemic social needs by **including the community in the solution process.**





# Social Innovation

Develops solutions to address social needs.

Develops **innovative** solutions to address **challenging and often systemic** social needs.

Develops innovative solutions to address challenging and often systemic social needs by **including the community in the solution process.**

Develops innovative solutions to address challenging and often systemic social needs, engaging and empowering communities **to enhance their capabilities and contribute to sustainable change.**





# Key Points – Social Innovation

- Social innovation is clearly described and embedded in the CCCs as something different from citizens and stakeholder engagement and participation (THEY ARE NOT THE SAME).
- The social innovation projects described in the dedicated module of the Action Plan connect to the vision and impact pathways described throughout the different components of the CCCs.
- The actors mapped/informed/engaged in social innovation projects are described in other section of the CCCs. TOP IF they are part/signatories of the commitment document.
- The adoption of a systemic approach is shown throughout the document and the social innovation projects included in the document align with such approach.
- TOP: the impact pathways, portfolio of actions and related social innovation projects are clearly linked by the use of colours and visuals.





# CCC Checklist: Democracy, Governance, Social Innovation

- Checklist - <https://netzerocities.app/resource-3166>
- Relevant checklist items – Commitments and Action Plan Documents
  - 5, 8, 9 – Building a Strong Mandate
  - 6, 7 – Strong Commitments from signatories
  - 18 – Stakeholder Mapping
  - 26 – Governance Innovation
  - 27 – Social Innovation
- General points:
  - Go through the checklist document ASAP
  - Look at the "A" columns of each criteria: this is a summary of what the commission is searching for.
  - TIP:
    - If you feel you covered everything that it is described -> WELL DONE!
    - If not: contact your CA and ask about feedback and clarification of each point. It might save some time later!



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# Social Innovation

**Rossana Torri**

Comune di Milano

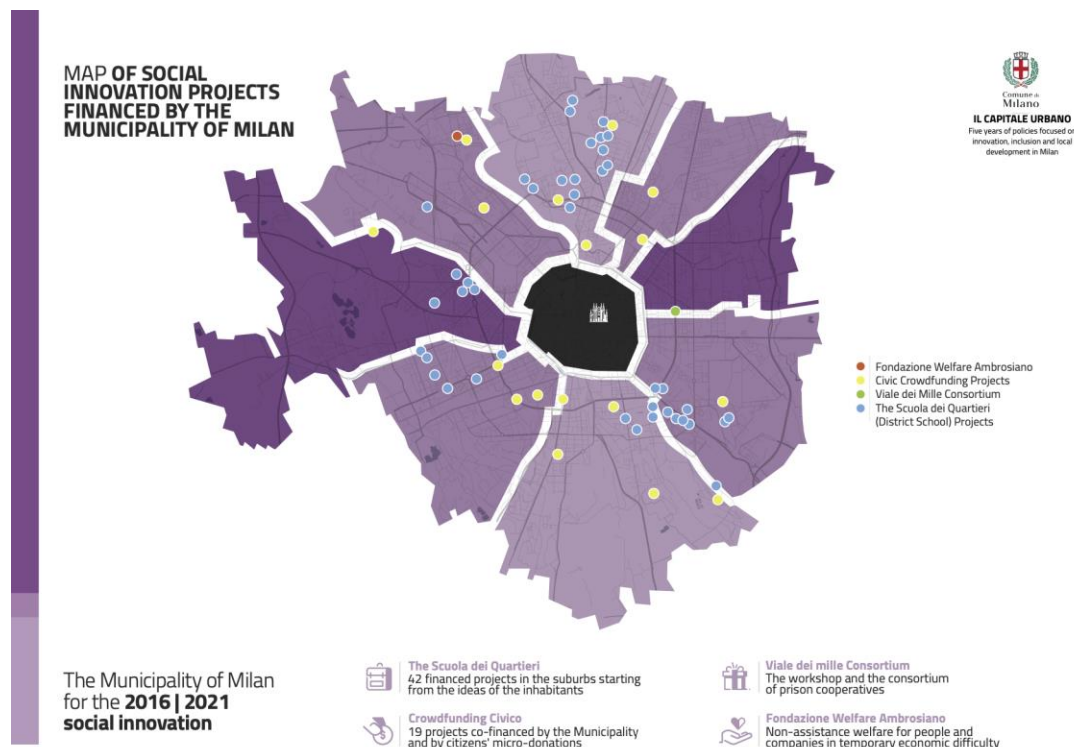
[rossana.torri@comune.milano.it](mailto:rossana.torri@comune.milano.it)



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# Pioneering Social Innovation in Milan



- Strategic Role of the Municipality as a booster
- Integrating Bottom-Up and Top-Down Actions
- Developing Urban Infrastructure (Establishing Incubators, Accelerators, Co-Working Spaces, Fablabs...)
- Regenerating Underutilized Urban Spaces



Read the english version of “**Il Capitale Urbano**”, Five years of policies focused on innovation, inclusion and local development in Milan – 2016-2021



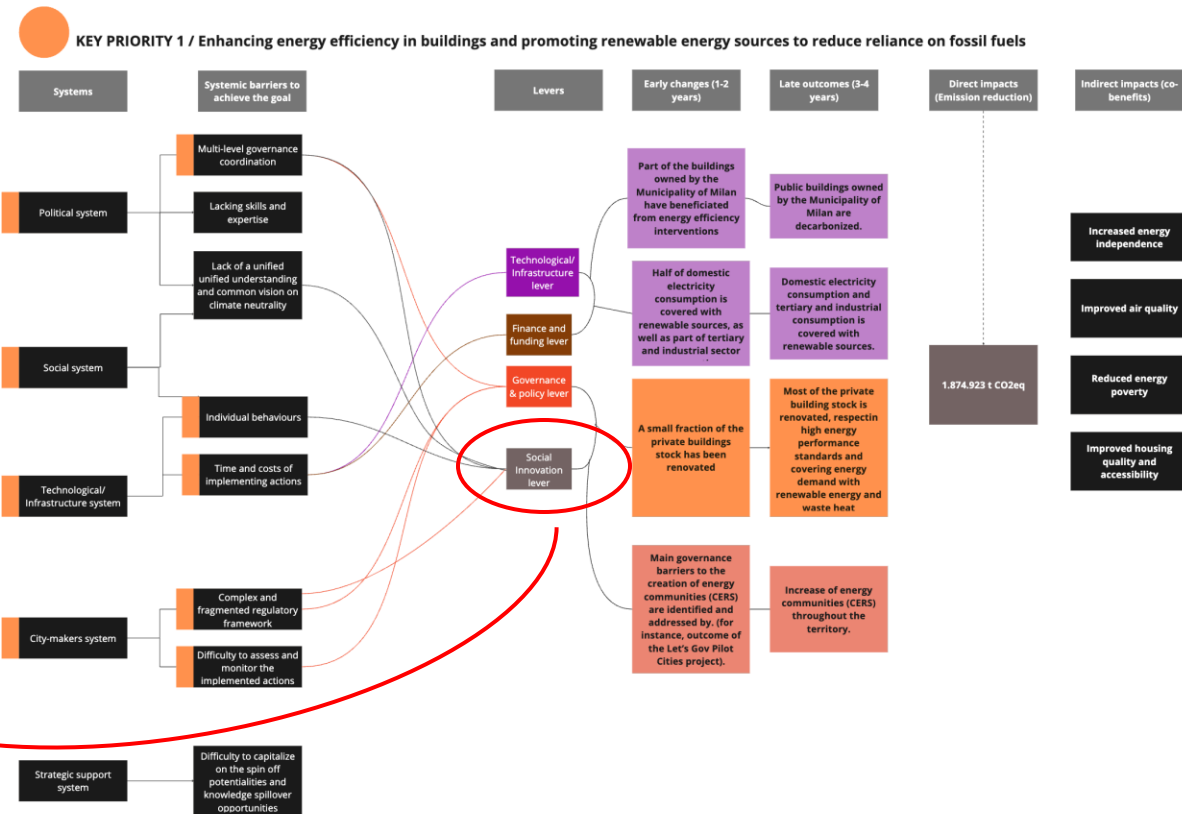
Read the “**Milan White Paper on Social Innovation**”, 2017





# Social innovation components of the Climate City Contracts

**SOCIAL INNOVATION**  
A pivotal lever in achieving climate neutrality  
(The NetZeroCities recipe)







## • The Climate City Contract of Milan in figures (March 2024)

### 157 actions for approximately 6 billion euros of investments

(from new "carbon neutral" districts, to expansions of the city's district heating system, to innovative pilot projects for recovering heat from data centers or wastewater, electrification of public transport, installation of photovoltaic systems, new plantings, and redevelopment of green areas...)

Among these:

**40 actions promoted by the Municipality of Milan** (equivalent to approximately 117 funded projects) with a **direct impact on emission reduction**.

**70 actions proposed by the signing stakeholders** with a **direct impact on emission reduction**.

Furthermore:

**36 enabling actions proposed by the signing stakeholders**, various initiatives with the potential to influence awareness, behaviors, and consumption habits of citizens and/or specific target groups.

**11 enabling actions proposed by the Municipality of Milan**, governance tools including agreements and alliances, data-driven models supporting planning across various fields; educational campaigns, innovative instruments for financing projects locally, and direct involvement of citizens and stakeholders in decision-making processes.



# Extract from Module C.2: Social Innovation Interventions

Examples of actions using social innovation to promote the adoption of novel ideas and approaches addressing climate and social challenges.



# Empowering citizens by raising awareness of climate change challenges and co-creating sustainable practices



## ECO-HACKATHON (Powered by Legambiente)



A collaborative event aimed at individuals under 35 to generate innovative and original ideas for reducing, reusing, and recycling.

### Systemic barriers addressed:

- Deep-rooted, individual behaviours that hamper the climate-neutrality pathway
- Lack of awareness among youth about waste reduction and recycling
- Inadequate platforms for collaboration and idea generation among youth.

### Enabling impact:

- Stimulating feasible and concrete project ideas with a strong element of innovation

### Co-benefits:

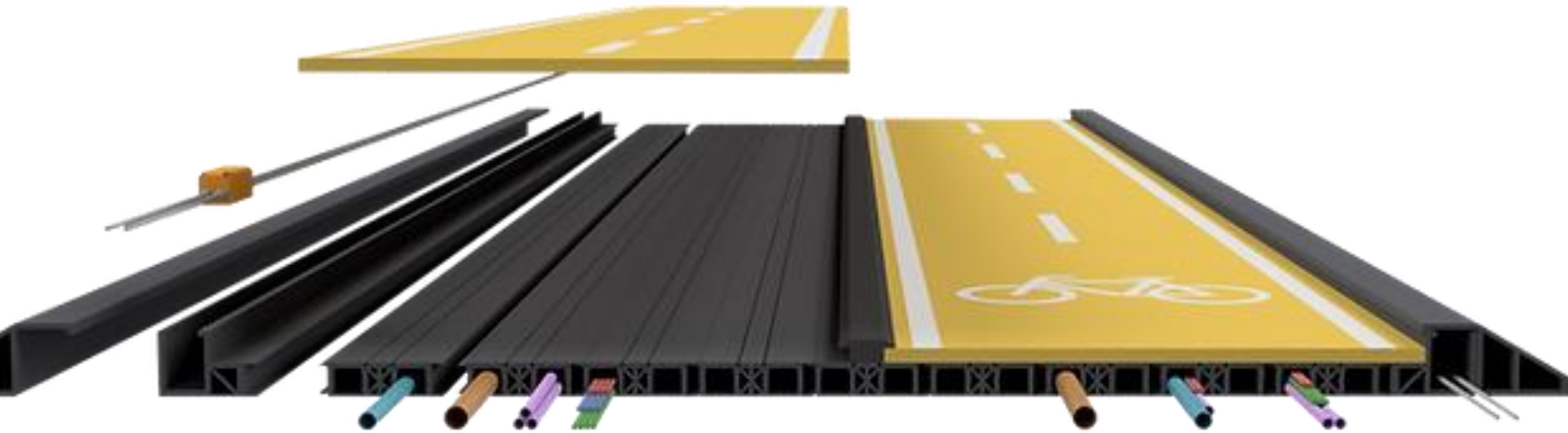
- Enhanced sense of agency and responsibility among young people.
- Real-world solutions for waste reduction and recycling derived from this initiative, benefiting the broader community



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# Supporting innovations in businesses and startups, particularly in energy, mobility, and agriculture sectors



## Systemic barriers addressed:

- Lack of awareness of circular economy principles in the cycling infrastructure sector.
- Resistance to change from traditional stakeholders in the industry.

**MOOVE by Revo Lab (project accelerated by Fondazione Giordano Dell'Amore)**

Modular cycle paths from recycled plastic materials, easy to install, removable, elevated from the ground, and equipped with sensors and integrated technology.

## Co-benefits:

- Enhanced quality of life for individuals and the community, coupled with the promotion of sustainable urban mobility solutions

## Enabling impact:

- Reducing carbon emissions by recycled materials
- Encouraging sustainable mobility, and supporting the circular economy by repurposing materials and reducing waste



# Promoting decentralized and participatory management models of renewable energy within local communities

## “Solidarity” Renewable Energy Communities (REC)



Groups that produce, consume, and manage renewable energy locally, reinvesting profits into local social projects like school education, environmental programs, and support for energy-poor citizens.

### Systemic barriers addressed:

- Dependence on centralized energy systems
- Social inequality and energy poverty

### Enabling impact:

- Reduction of greenhouse gas emissions
- Energy independence and security
- Local economic development

### Co-benefits:

- Energy Cost Savings
- Social Cohesion and Community Engagement





# Main Insights & Lessons Learned

Very complex challenges posed by climate change



Innovative solutions that **integrate technological advancements with social innovation**



Strategic lever in **enabling actions that significantly impact EMISSION REDUCTION while providing diverse CO-BENEFITS**



Gaining **social acceptance** and highlighting the benefits and co-benefits of the transition.



- Community Engagement and Empowerment
- Job Creation and Economic Growth
- Enhanced Public Health
- Environmental Conservation
- Education and Awareness
- Social Cohesion and Resilience
- Policy Influence and Advocacy
- .....



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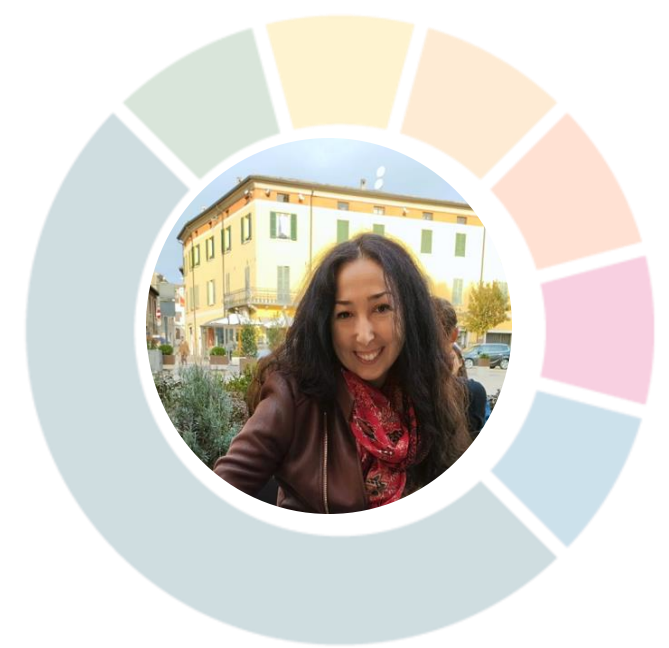
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# Democracy and Governance

**Chiara Cervigni, Paola Papini**

City of Bologna



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# Innovative Democracy & Governance Initiatives

The city of Bologna has a long history of citizens participation in city policies and transformations

Several processes activated (i.e. Participatory budgeting, neighbourhood labs, Neighbourhood Houses network, etc.)



Snapshot from [FIU website](#)

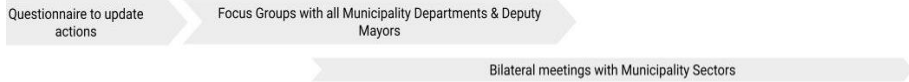




# Democracy & Governance in the CCC



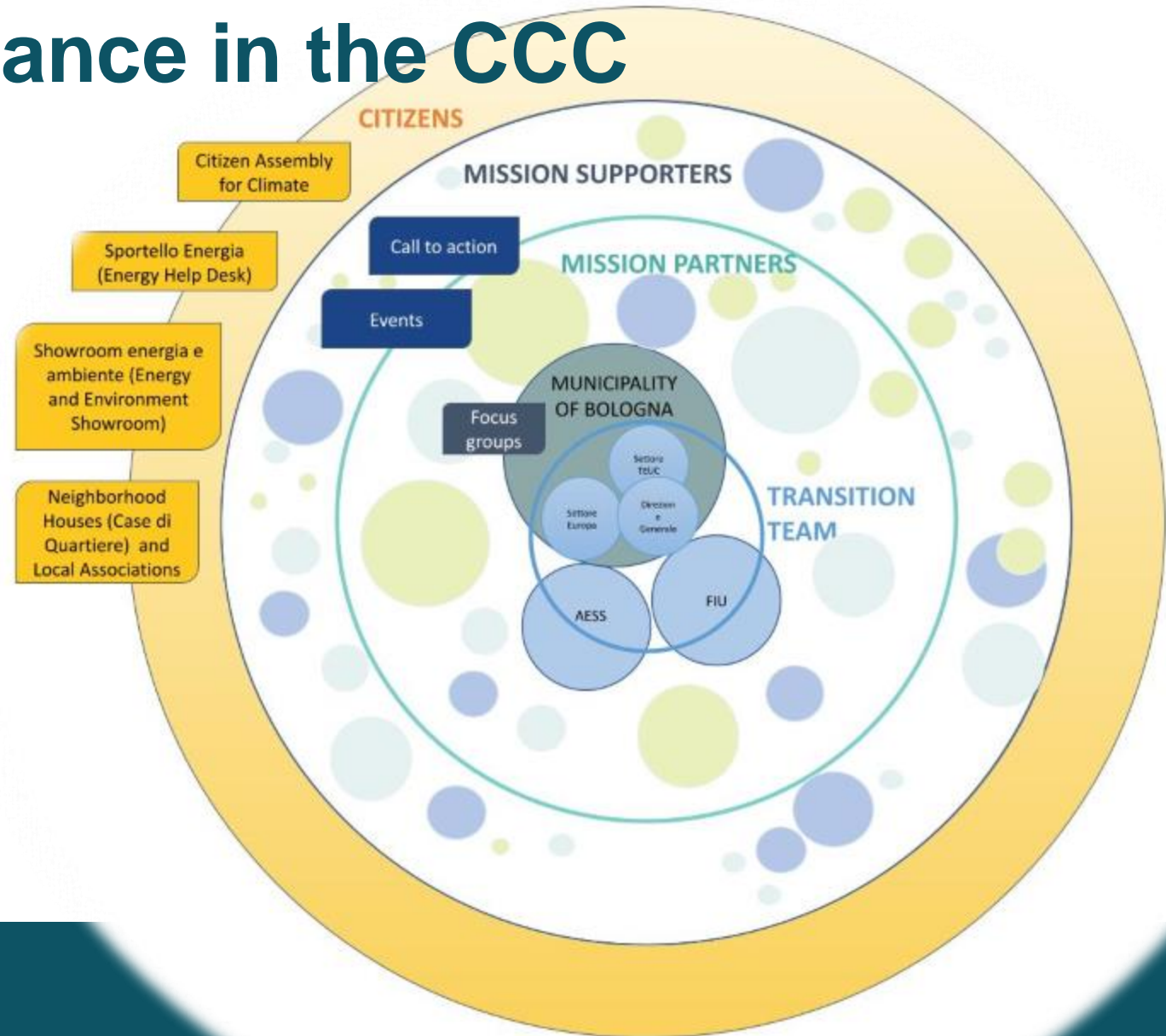
## The internal process



## The external process



## The citizens







# Democracy & Governance in the CCC

The **Citizens Assembly**: a democratic institution, included within the Municipality Statute in 2021, that aims to directly involve a sample of citizens and city users, randomly selected to represent the socio-demographic composition of the city, to help propose and implement municipal policies.

The first Assembly, to start in 2023, has been called by the City Council to work on Climate. The mandate includes three questions on Mitigation, Adaptation and perceived barriers in rules, services and regulations.

The Assembly is connected to the participation of Bologna to the “100 Climate Neutral Cities by 2030 - by and for the citizens” Mission.





# Democracy & Governance in the CCC

## The Citizens Assembly

Participation rate: about 80%

The [Final Document](#) approved by the Assembly includes proposals and recommendations, included in the CCC, on:

- Buildings
- Renewable energy
- Green and blue infrastructures
- Waste, sustainable food and agriculture
- Sustainable mobility



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Comune  
di Bologna



# Let'sGOv – GOVerning the Transition through Pilot Actions

**LET'SGOV!**  
9 Cities for Climate Governance

NET ZERO CITIES  
EU MISSION PLATFORM | CLIMATE NEUTRAL AND SMART CITIES

Co-funded by the European Union

#EUmissions #HorizonEU #MissionCities

28 FEB 2024 BOLOGNA

**LET'SGOV!**

PERIMETRO

CONSAPEVOLEZZA → POTENZIALITÀ

PROBLEMI

FEEDBACK

Verso un TOOLKIT CONDIVISO

TWIN CITIES

CULTURA

COMUNITÀ ENERGETICHE RINNOVABILI

SOSTEGNO alla TRANSIZIONE ECOLOGICA

COMMON DATA MANAGEMENT

RACCOLTA INFORMAZIONI

DATI CONDIVISI

PILOT CITIES

MIGLIORARE LA GOVERNANCE MULTILIVELLO sul CLIMA

COINVOLGIMENTO delle COMUNITÀ e la COMUNICAZIONE della TRANSIZIONE

FORMAZIONE, CAPACITY BUILDING e APPRENDIMENTO TRASVERSALE

MODELLO di INGACCIO

MODELLO di CONDIVISIONE

MODELLO di FINANZIAMENTO

TRANSIZIONE AMMINISTRATIVA

ROMA ROMA CAPITALE

MILANO Comune di Milano

FIRENZE

BOLOGNA Comune di Bologna

TORINO CITIES DI TORINO

PADOVA COMUNE DI PADOVA

BERGAMO CITTÀ DEL VALE

PRATO comune di PRATO

PARMA Comune di Parma

AESS

ENERGY CENTER

EST ENERGY SECURITY TRANSITION

Finanziato dall'Unione europea

This project has received funding from the H2020 Research and Innovation Programme under grant agreement number 970028929

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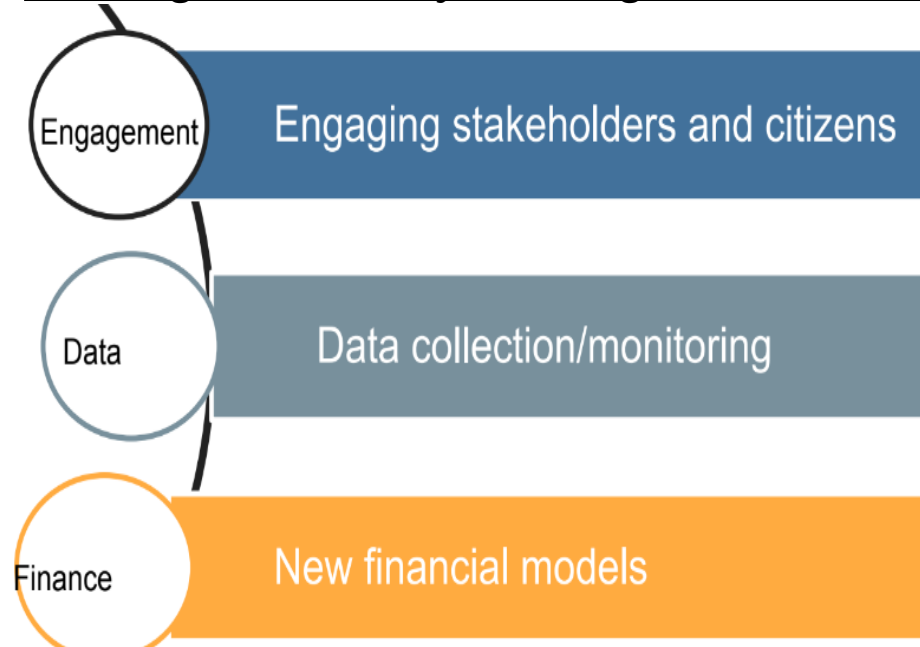
# Let'sGOv – GOverning the Transition through Pilot Actions

## Aim:

Reducing energy related emissions through the exploration of enhanced governance models:

- **internal** – within municipalities
- **external** – between municipalities and stakeholders

## Working on three key challenges related to CCCs:



## At 3 levels:

**The 9 Italian cities network**  
(capacity building and cross-learning)

**3 Thematic clusters**  
(experimenting pilot solutions)

**Each city**  
(enhancing innovative climate governance at local level)





# Democracy & Governance in the CCC

## Bologna Missione Clima:

<https://www.bolognamission eclima.it/>

## Citizens Assembly:

<https://www.comune.bologna.it/partecipa/percorsi/assemblea-cittadina-per-il-clima>

## Let'sGOv:

[Instagram](#)

[Linkedin](#)



Photographs by Margherita Caprilli for Fondazione Pietro Giacomo Rusconi Villa Ghigi per l'Innovazione Urbana





# Questions & Answers





# Questions & Answers: 15 minutes

What questions do you have for the cities?

What questions do you have about these topics and the CCC?





# Breakout Session – Inventories and Impact Pathways

25 June 2024

14:45 – 15:30



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# Inventories and Impact Pathways

Lessons from the Municipality of Miskolc

**Mr. Ádám Márton**  
Commissioner to Mayor  
marton.adam@miskolc.hu



**MISKOLC**



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Covenant of Mayors  
for Climate & Energy  
EUROPE

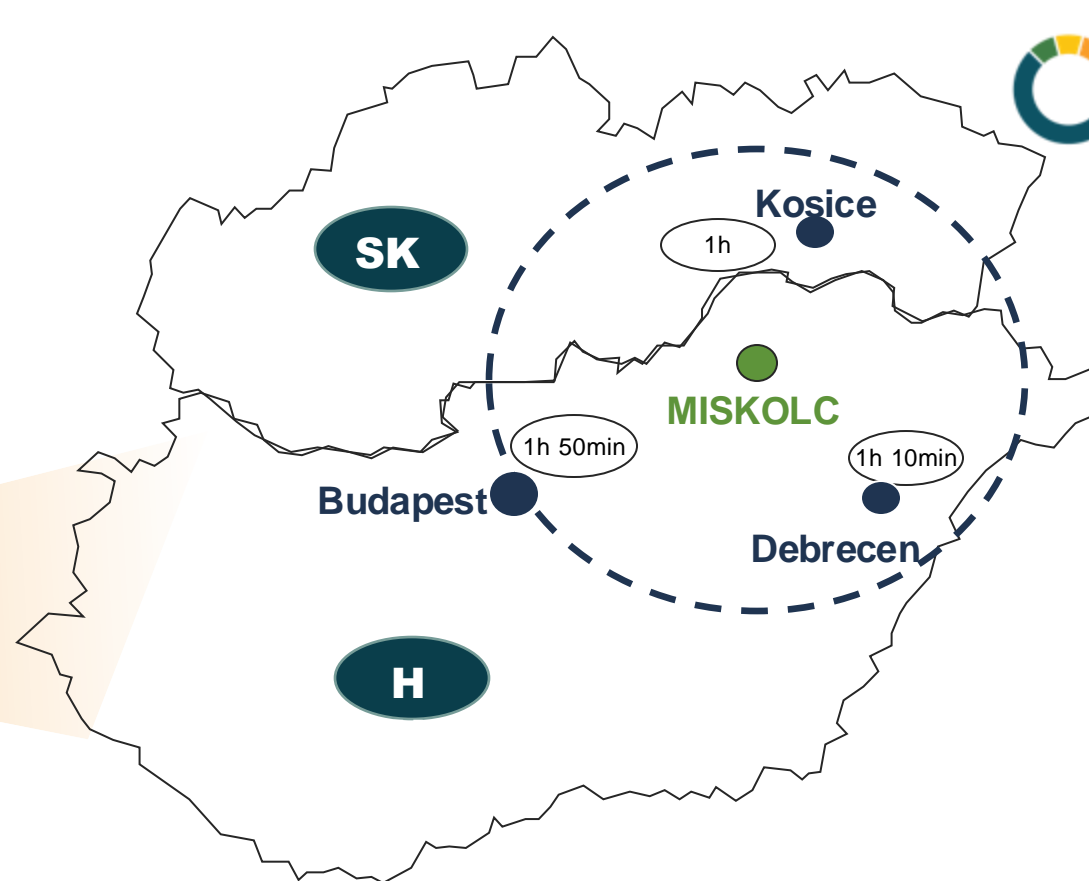


SECRETARIAT OF THE CLIMATE GROUP



European  
Missions

100 Climate-Neutral  
and Smart Cities  
by 2030



### REGIONAL CENTER

Miskolc is the county seat of Borsod-Abaúj-Zemplén County and **Center of the Northern-Hungarian region.**

Average monthly net salary: €850



### POPULATION

145,000 people live in the city. Miskolc has the **largest agglomeration following Budapest**, the population is over **300,000** people in 30 km radius.



### INDUSTRIAL TRADITION

Very rich history in **steel and machinery industry**. Today the most important sectors are **automotive, chemicals and tourism.**



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**BOSCH**



**JOYSON**  
SAFETY SYSTEMS



**JABIL**



**BC**  
BorsodChem



**WANHUA**



**Nestlé**  
Good Food, Good Life



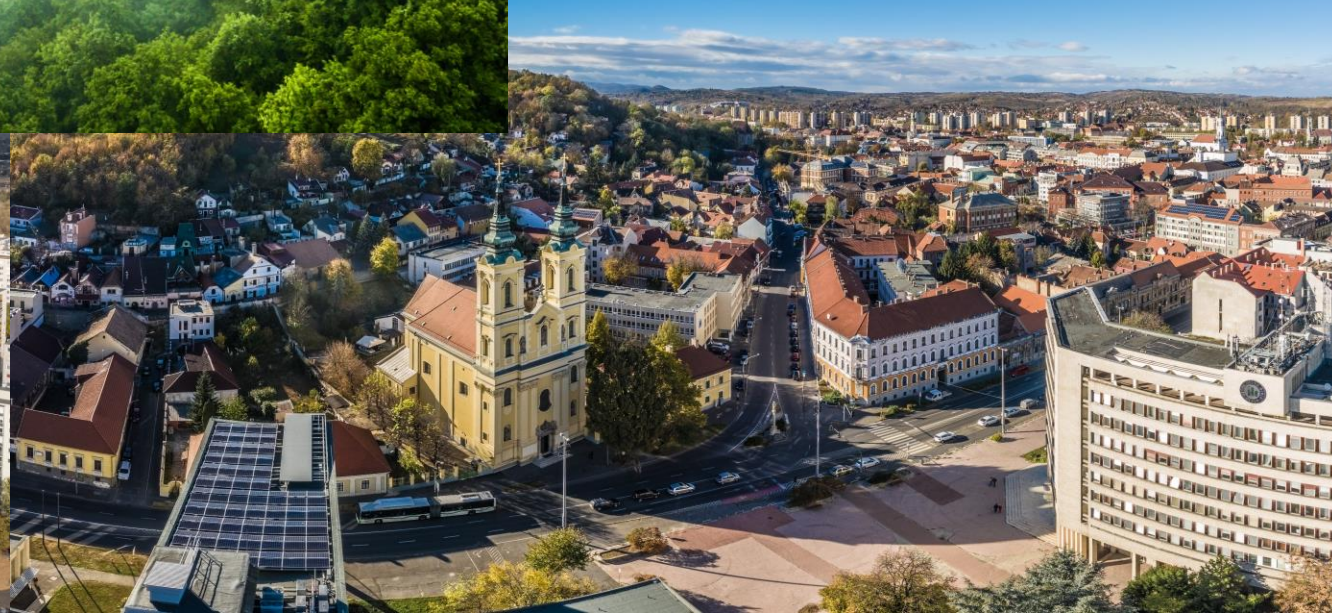
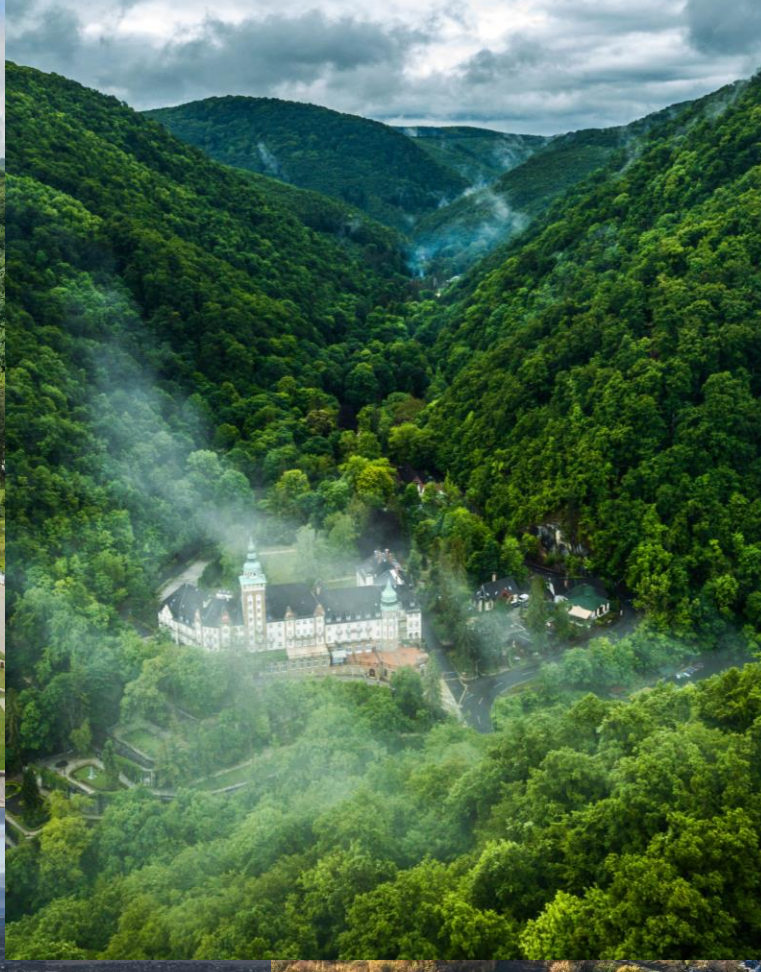
**MOL**



MISKOLC

UniCredit Bank

UniCredit Bank

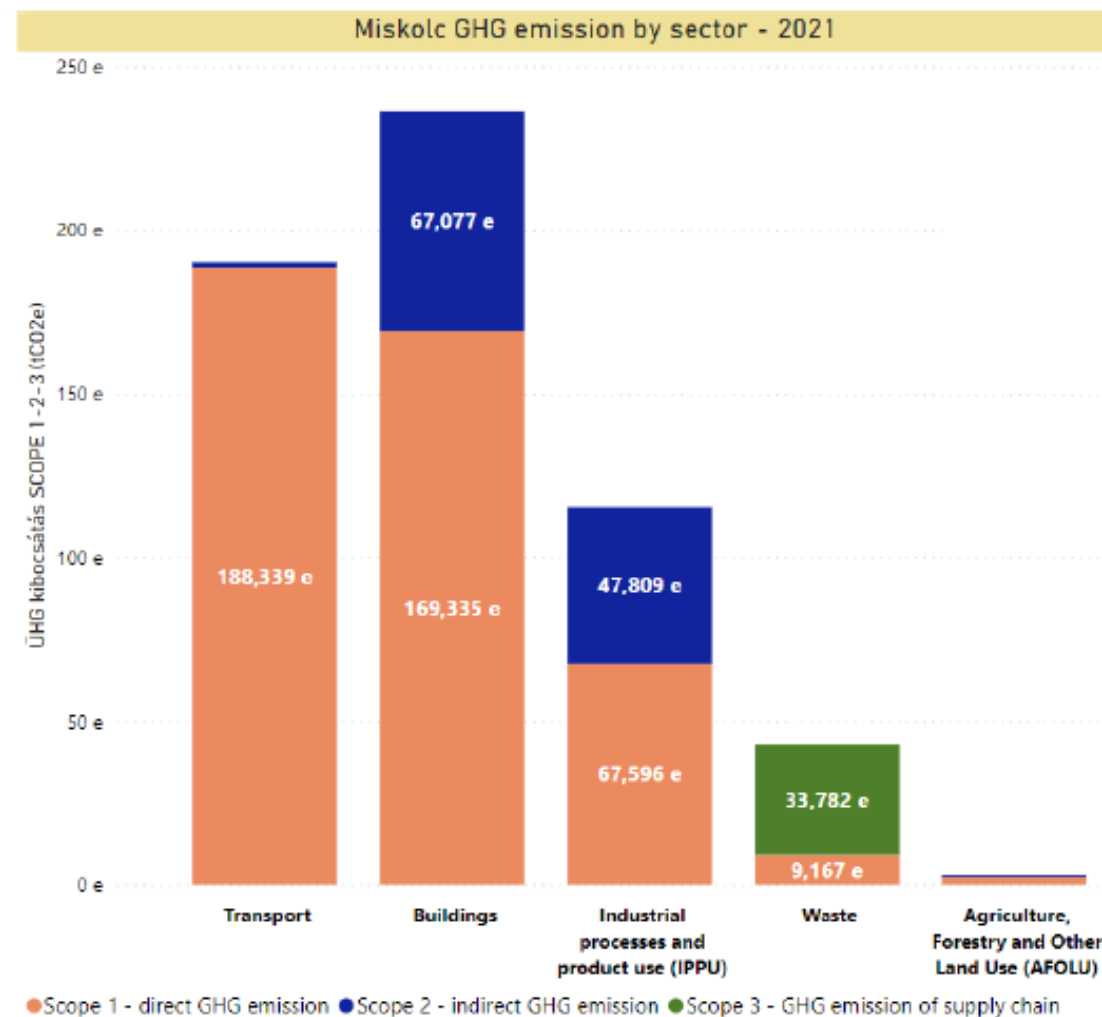




# Collecting data

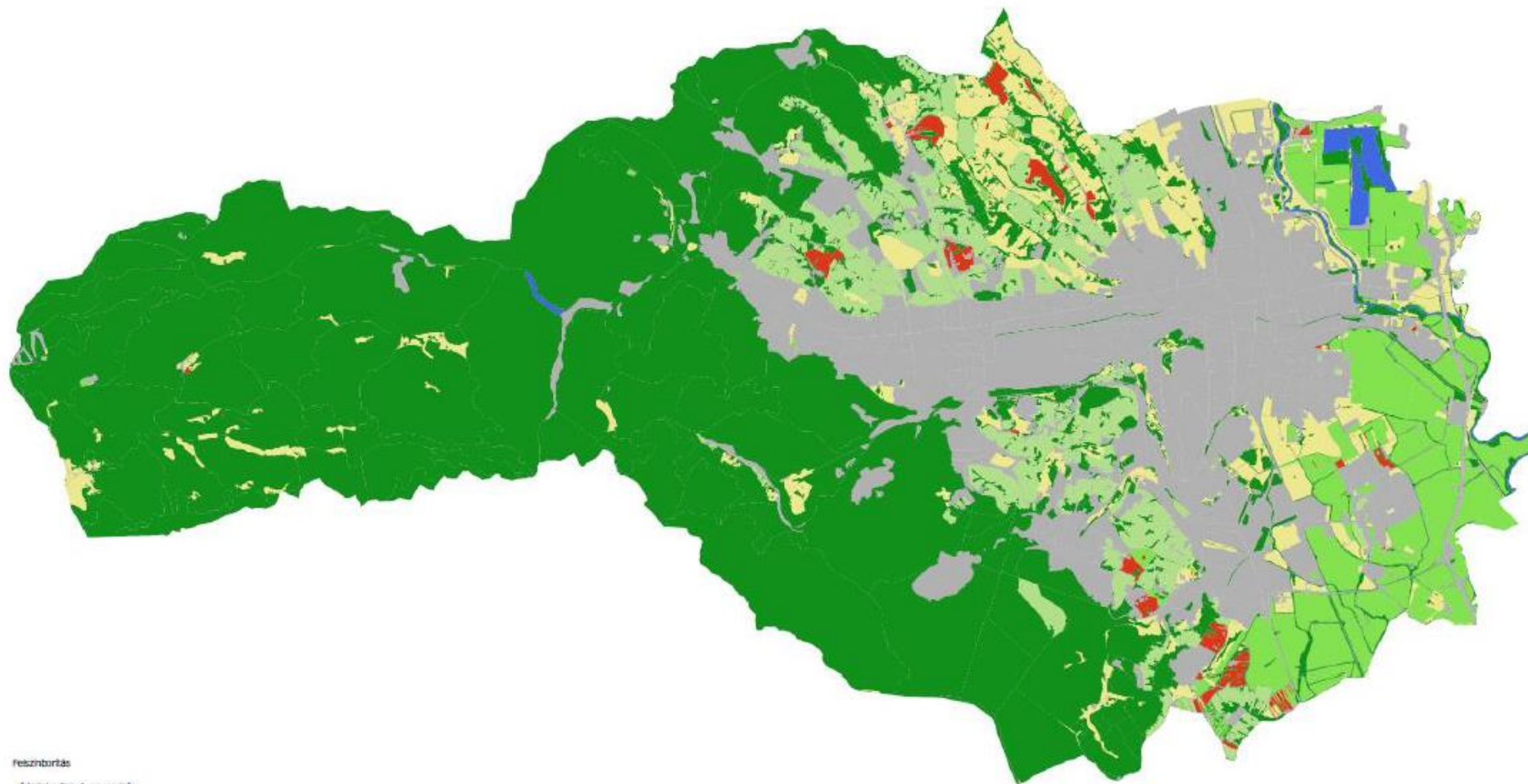
- Data sources
  - Types of GHG gases – only 3
  - Data owner
  - Availability
  - Time
  - Residual emissions
- Data quality

Figure 5: Miskolc aggregated GHG inventory



map 2: surface cover in the administrative area of Miskolc

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#MissionCit



Felhasználás

felhasználás\_1\_gesm\_info

- Szántó
- Gyep
- Állandó kultúra (Értékteljes)
- természetes növényzettel borított terület, természetes, illetve természetközeli élőhelyek
- infrastruktúra, épített környezet, mesterséges felszín
- nyílt vízfelület
- előszörben nem mezőgazdasági hasznosított, kiterjedt területek, amelyen belül jellemzően nincs 2500 m<sup>2</sup>-t elérő nagyságú mezőgazdasági parcella



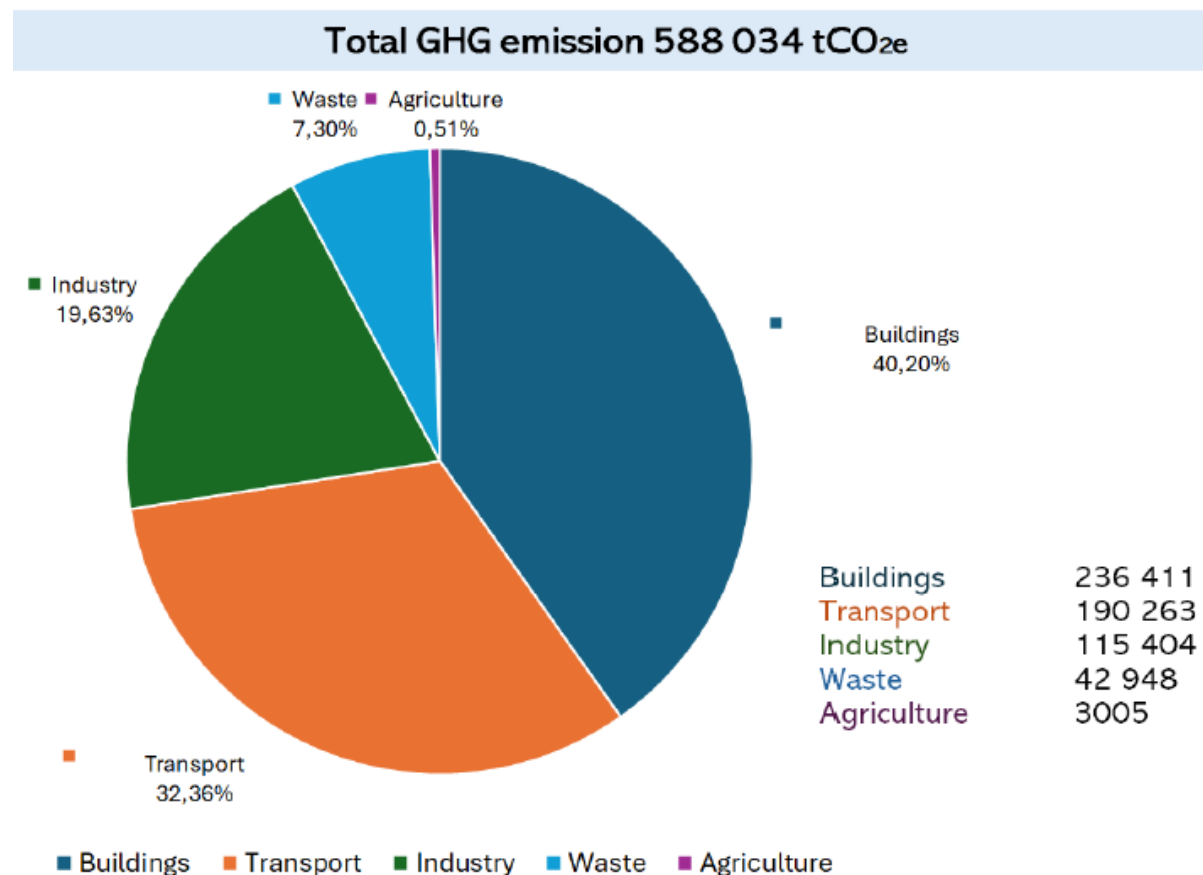
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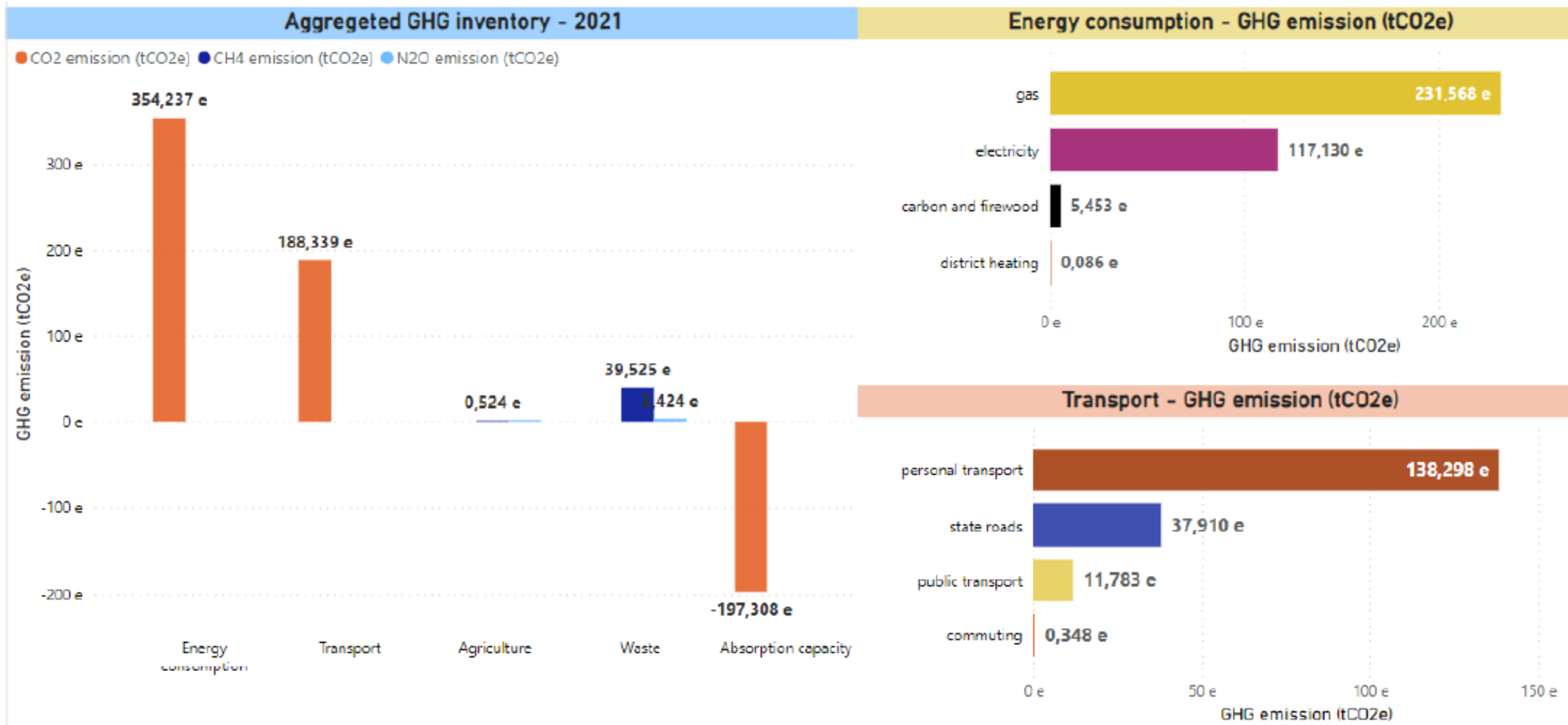
# From data to information

- Inventory methodology
  - CoM
  - IPPU
- Matching inventory with economic model
- Visualisation

Figure 4: Miskolc aggregated GHG inventory by sector



### Figure 6: Miskolc aggregated GHG inventory by sector





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6,6 tCO<sub>2e</sub>/person



8 tCO<sub>2e</sub> /p



3,9 tCO<sub>2e</sub> /p



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# Key messages

- NOT tick off, but understand
- Your story
- 2 recipients
- Visualize, set clear goals
- Match with economic model
- CCC checklist
- Ask



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Thank you for your attention! 

**Mr. Ádám Márton**

[marton.adam@miskolc.hu](mailto:marton.adam@miskolc.hu)

Commissioner to Mayor  
City of Miskolc



**MISKOLC**



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# Inventories and Impact Pathways

**Nupur Prothi, Paul  
Barton**

ICLEI ES



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# Three options for Inventory Submission

- CDP-ICLEI Track
- MyCovenant
- Self-Upload



**Covenant of Mayors**  
for Climate & Energy  
EUROPE



## Window 3 pass rates

- Q13: Are all GHG gases specified in the Mission Info Kit included in the inventory? **78%**
- Q15: Is the '2030 emissions gap' included in the CCC AP quantified and clearly explained? **78%**
- Q16: Does the CCC provide a strategy to address residual emissions in line with what is required by the Info Kit? **74%**



Climate City Contract

**CCC Document  
Completeness Checklist V2.1**

December 2023





## Q13: Are all GHG gases specified in the Mission Info Kit included in the inventory? If using CO<sub>2</sub>-equivalent, is the calculation methodology for emission factors included (i.e. which gases are present under the “equivalent”)?

- Mission Info Kit asks for CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O as well as HFCs, PFCs, SF<sub>6</sub>, NF<sub>3</sub> (industrial gases with high GWP)
- “Not all GHG gases in addition to CO<sub>2</sub> are reported, **but a rationale is presented for those omitted**” = still a pass!





## Q15: Is the '2030 emissions gap' included in the CCC AP quantified and clearly explained?

- Yes/No question
- Main idea is to outline what emissions the CCC aims to address. Quantify how ambitious your Mission target is compared to your city's previous plans.
- Cities do different things with baselines here, do what makes sense for you







# Q16: Does the CCC provide a strategy to address residual emissions in line with what is required by the Info Kit? If not, has an explanation been provided or a plan devised for improvements in future iterations?

- Recommend using one or more of these terms from the Info Kit:
  - **Carbon Sinks:** enlargement or enhancement of natural sinks within territory
  - **Carbon Removal:** CCS resulting in permanent sequestration
  - **Carbon Credits:** projects outside city boundary
- A paragraph committing to explore the above is also acceptable, but key is that the section is filled out and that it **does not focus on mitigation measures**





# Breakout Session – Investment Plans and innovative finance

25 June 2024

14:45 – 15:30



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# Investment Plans

**Harry Wain**  
BwB



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# Agenda



1 EU Mission Platform – Climate Neutral and Smart Cities

2 Investment Planning Best Practice

3 Climate City Capital Hub

4 The Hub process

5 Capital Hub and the EIB



# EU Missions in Horizon Europe



## The Climate Neutral and Smart Cities

- **NetZeroCities** helps Europe in its ambition to achieve climate neutrality. The project comes in support of the EU's Mission "**100 Climate-Neutral and Smart Cities by 2030**" and provides cities with world-class expertise and services tailored to their needs.
- In 2022 the European Commission announced the 112 cities selected to participate in the EU Mission for 100 climate-neutral and smart cities by 2030.
- Of these 112 cities, **around 52% are located within regions participating in the Mission on Adaptation to Climate Change**.
- Of the **33 labelled cities, 14 cities** discussed adaptation at a generic/policy level and **16 cities** discussed adaptation at a specific project level.

## The Mission on Adaptation to Climate Change

- The Mission on Adaptation to Climate Change focuses on supporting EU regions, cities and local authorities in their efforts to **build resilience** against the impacts of climate change.
- The Mission's objective is to accompany by 2030 **at least 150 European regions and communities** towards climate resilience.
- The Mission Implementation Platform (**MIP4Adapt**) supports European regional and local authorities to prepare and plan their adaptation pathways to climate resilience.
- MIP4Adapt has identified **six initial pilot cities**, namely Valencia, Lisbon, Valladolid, Leuven, Turku, and Tampere.

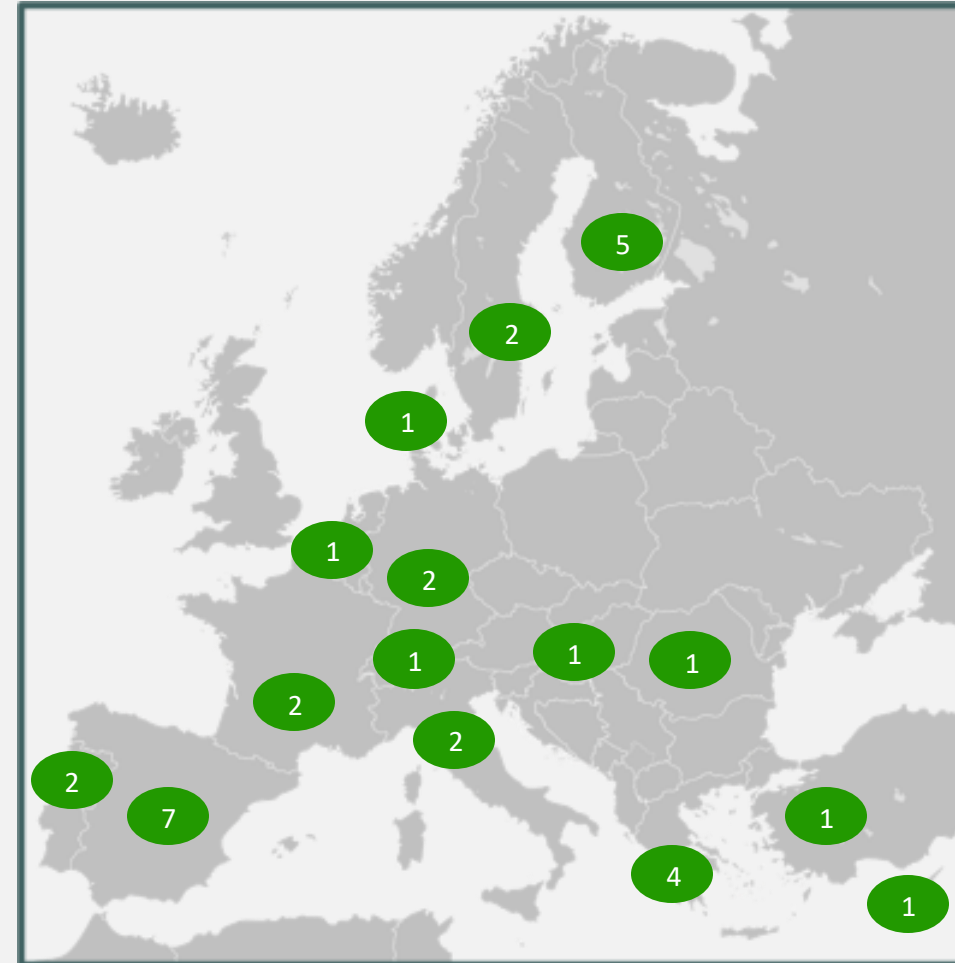


# The Climate Neutral and Smart Cities by 2030

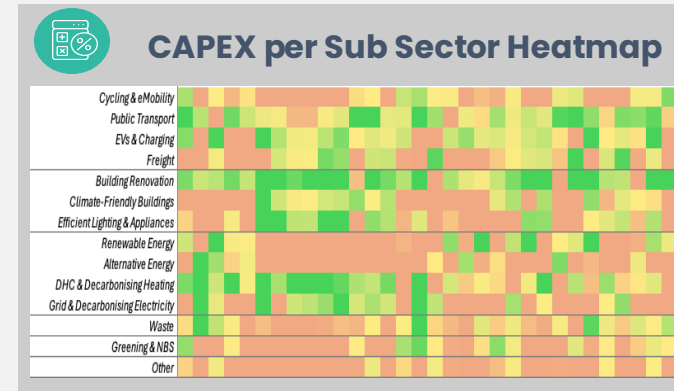
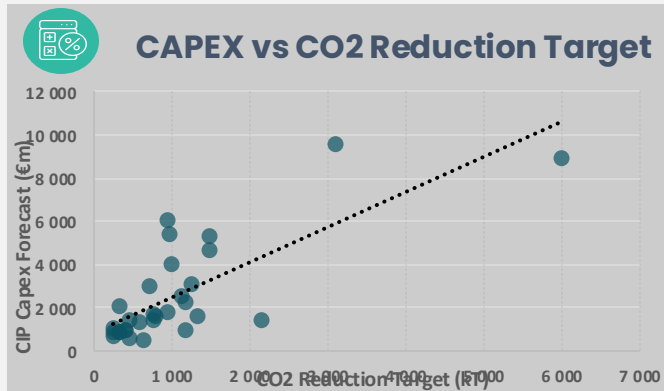
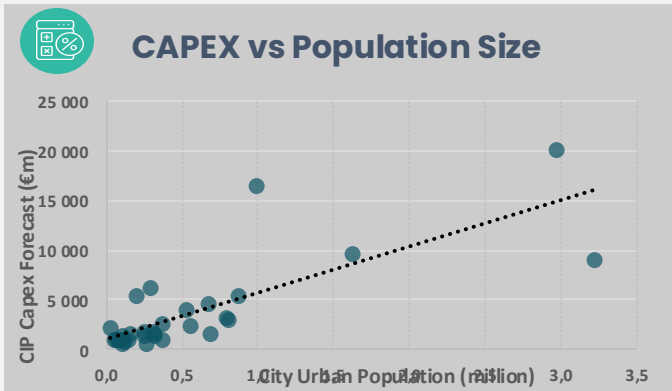
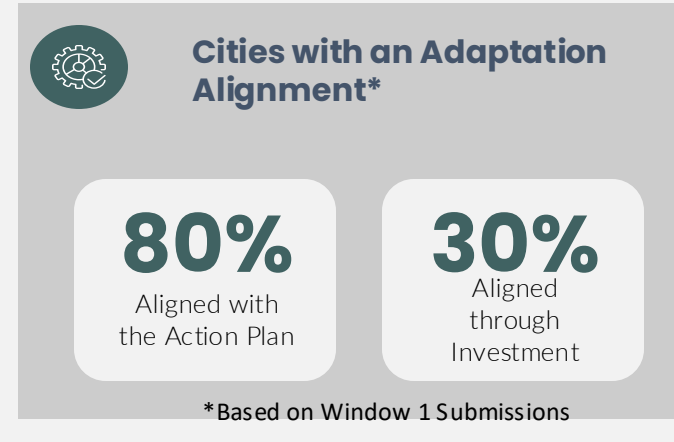
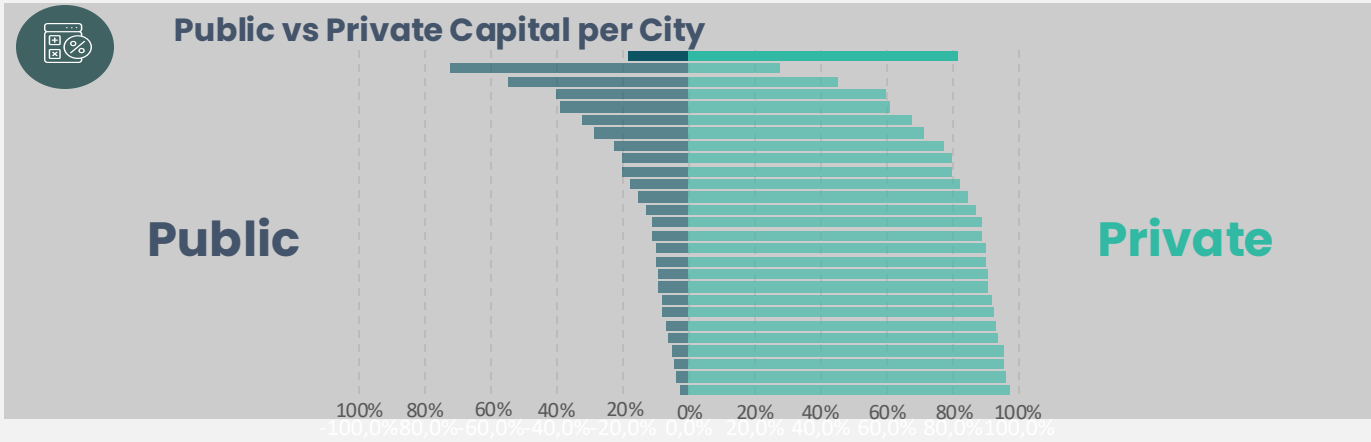
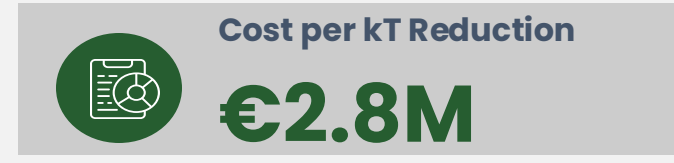


The Window 1 cities below were the **first Mission Cities** that have been awarded the 'EU Mission Label' of the EU's Mission for '100 Climate-neutral and Smart Cities by 2030', while the below **Window 2 cities received** the label on March 21<sup>st</sup> 2024

Window 1	Window 2		
Cluj-Napoca	Ioannina	Heidelberg	Guimaraes
Klagenfurt	Thessaloniki	Leuven	Marseille
Madrid	Kozani	Espoo	Limassol
Mannheim	Izmir	Barcelona	
Sønderborg	Lyon	Florence	
Stockholm	Seville	Pecs	
Valencia	Parma	Lahti	
Valladolid	Turku	Malmö	
Vitoria Gasteiz	Lappeenranta	Tampere	
Zaragoza	Kalamata	Lisbon	



# The Mission - Key data points



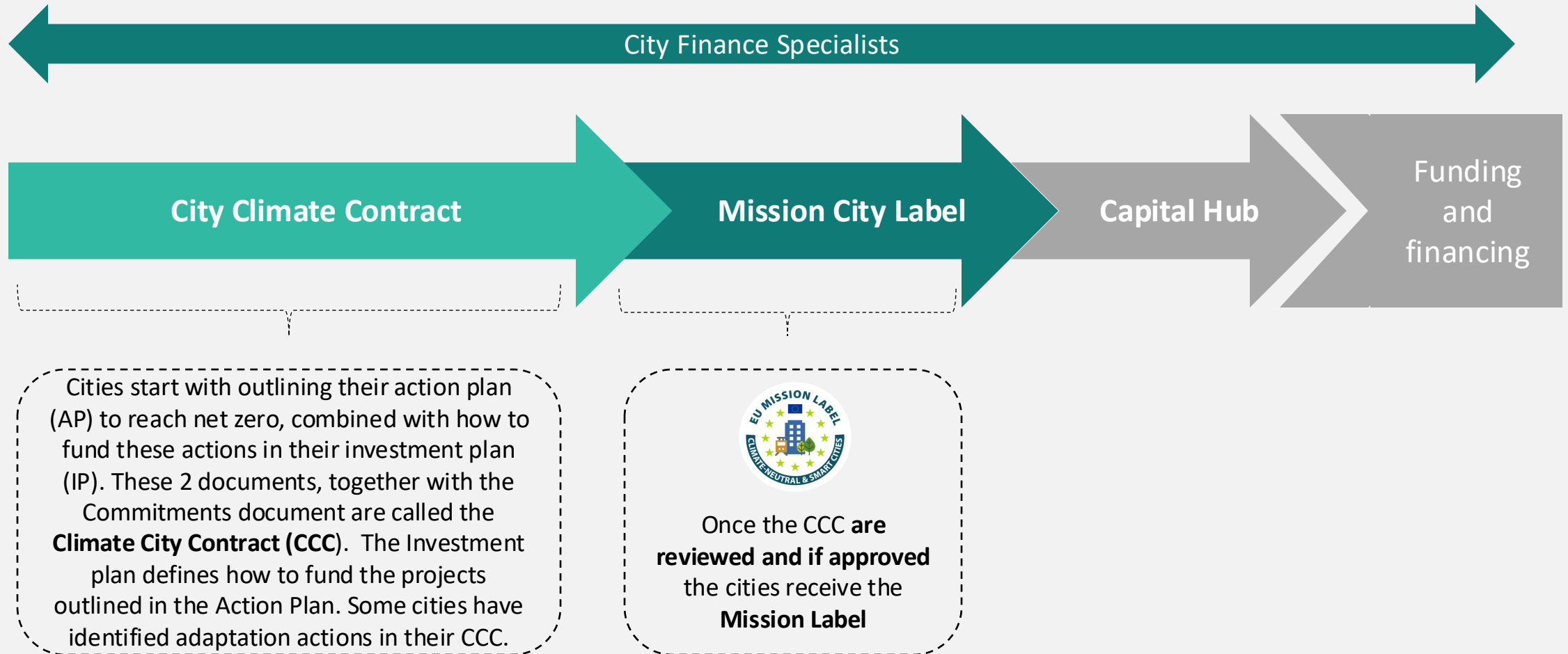
Source:



NetZeroCities has received funding from the H2020 Research and Innovation Programme under grant agreement n°101036519.



# The NetZeroCities process – pre mission label





# Part A: Current State of Climate Investment

Guidance on best practice and common mistakes to avoid



## Best Practice

Map out the current and planned budgeted climate activities within the city and any associate companies.

Use sector specification provided in the Action Plan

Provide as precise city budget spending (in LCU) as possible and also sources of income and capital

Identify new, potential capital sources

Differentiate among structural, fiscal, economic barriers. Describe mitigation actions.

## Avoid

Avoid allocation by city organization department

Avoid detailing a few specific investments. Present a holistic picture instead.

Avoid only providing internal municipal income sources (e.g. local tax). Provide external sources such as grants, green bonds

Avoid listing barriers without linking them to the potential capital sources

Avoiding assessment on internal capacity for raising capital



# Part B: Investment Pathways towards Climate Neutrality

Guidance on best practice and common mistakes to avoid



## Best Practice

Provide details about CAPEX and OPEX (let it be absolute or incremental), emissions, and co-benefits.

Differentiate private/public capital sources project-by-project

Identify indicators for monitoring and which are related to efficiency of capital deployed (e.g. EUR/gCO<sub>2</sub> reduced)

Use indicators that are relevant to both public and private entities (not only no. of jobs created, not only RIO, but gCO<sub>2</sub> reduced)

## Avoid

Avoid only costing for municipality entities. Include private stakeholders with emitting assets.

Avoid high level deployment of capital without linking it to individual projects

Avoid focusing on public funding sources with no consideration of private capital or blended finance

Avoid using the same monitoring process outlined in the Action Plan. Set up separate financial monitoring.



# Part C: Enabling Conditions for Climate Neutrality

Guidance on best practice and common mistakes to avoid



## Best Practice

List policies that both support and hinder the climate spending / borrowing process

Use this as an exercise to identify gaps and opportunities for implementing climate- or investment-enabling policies, and whether the city has required capacity for implementation.

Categorise and describe risks in detail: are risks financial/regulatory/transactional/policy-related? What is the likelihood of occurrence? scale of impact? Mitigation options?

Perform internal org. capacity self-assessment for implementation. Identify existing expertise and resource gaps.

Complete an extensive stakeholder list, assess their influence and impact, and craft engagement strategy

## Avoid

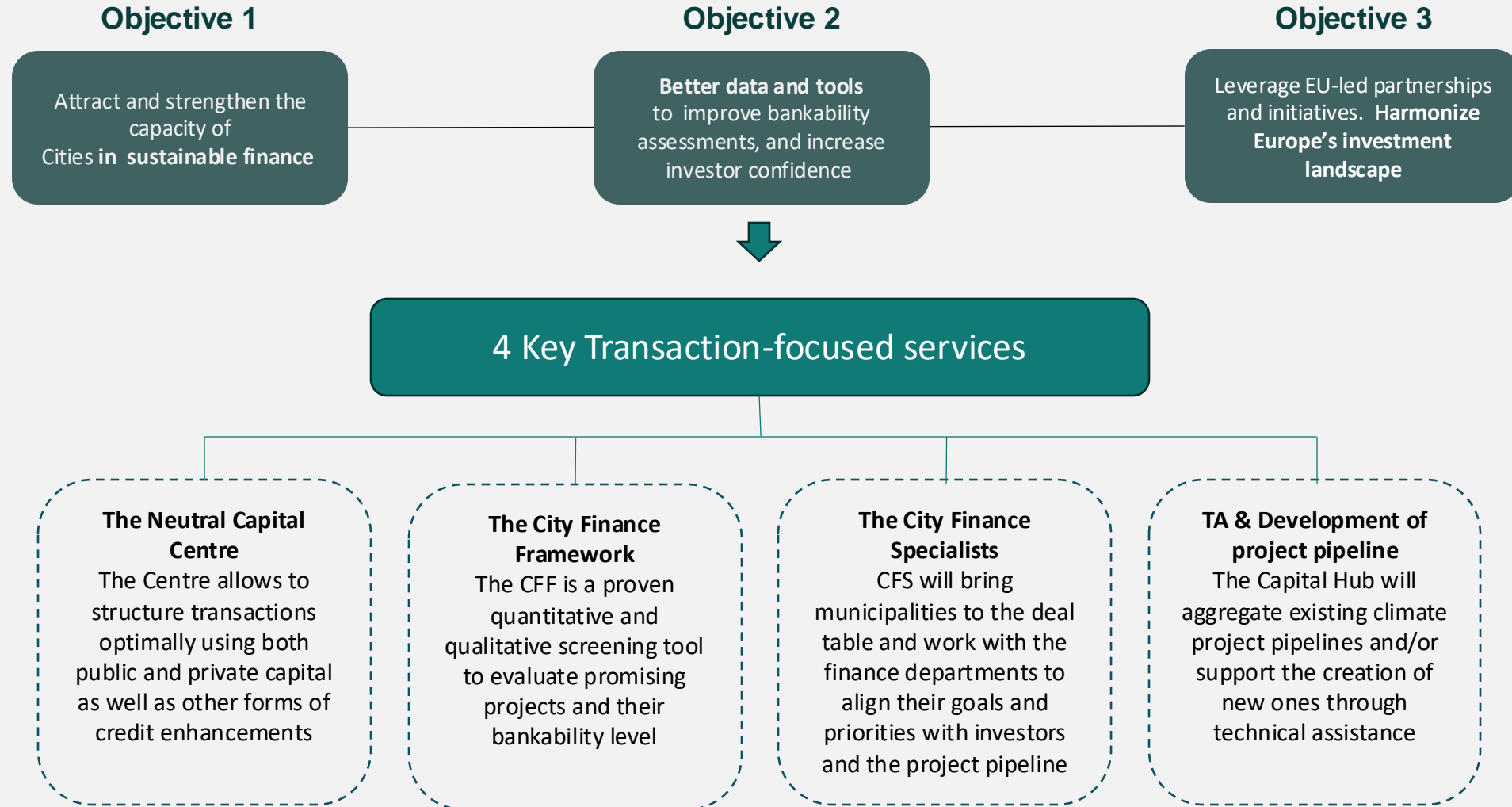
Avoid leaving this section blank.

Avoid generic risk identification. Identify them on project level.

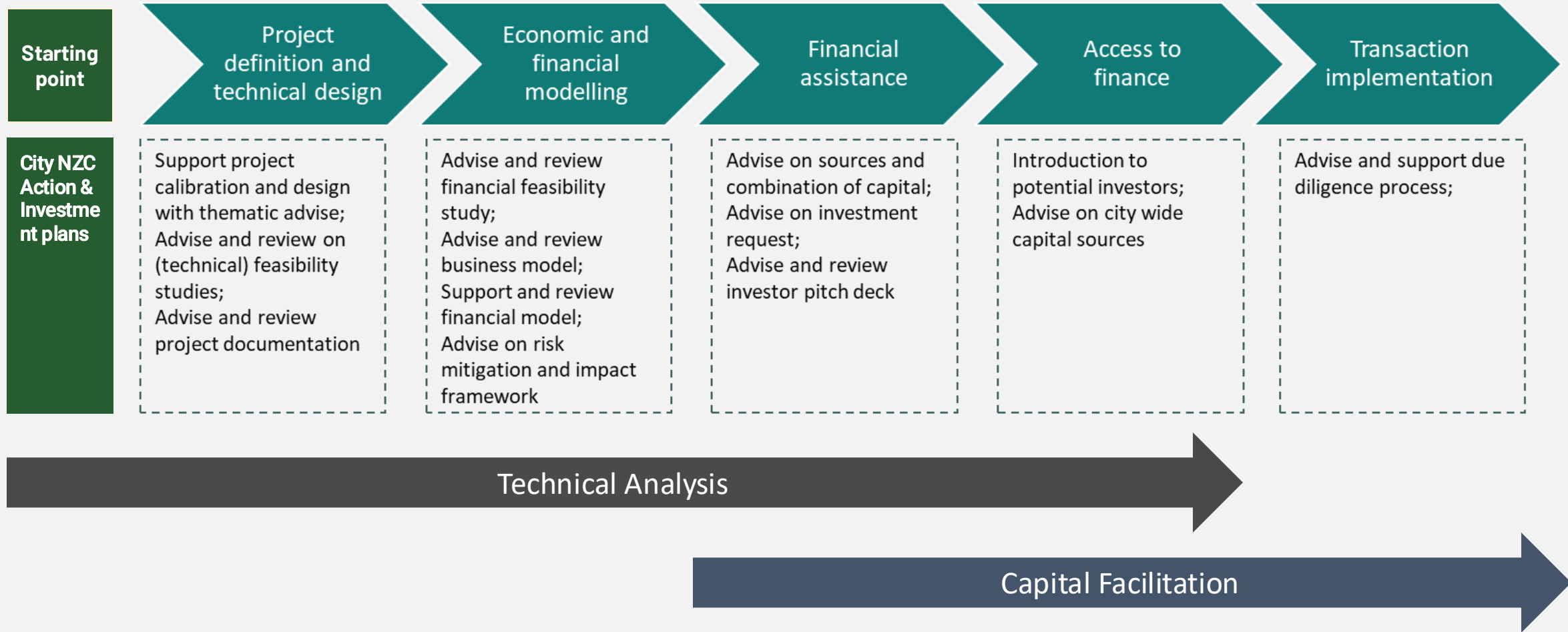
Avoid high-level stakeholder mapping without considering their usefulness or potential for engagement.



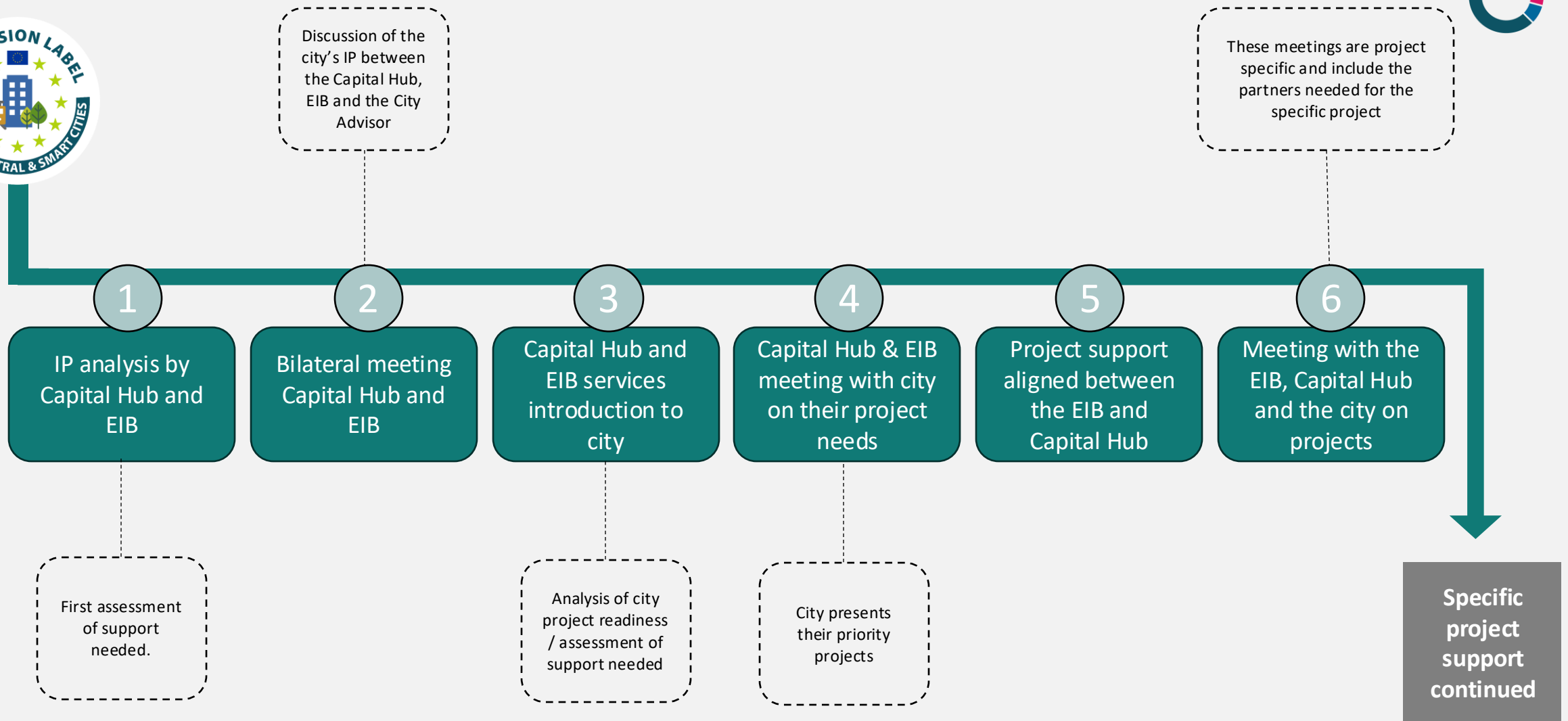
# Climate City Capital Hub's key features



# Climate City Capital Hub at project level



# The Hub process – post mission label



# Facilitating Climate Neutrality Investment

## A Case Study of Bristol City Leap

Alex Minshull, Bristol City Council, UK



# NET ZERO CITIES

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### NETZEROCITIES PILOT CITY



## Bristol



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# The Background



- Bristol City Council has a **long history of climate action** – producing one of the UK’s first climate strategies in 2004. In 2015 we were the European Green Capital.
- We have **built up our capacity, capability and confidence** - investing nearly £100m in low carbon projects in the past decade.
- The technical assistance funding from the European Investment Bank ELENA programme was **very important** for this phase.
- However, we recognised that we needed to **increase the scale and pace of change**, bringing in additional capacity, capability and private finance.
- We declared a **climate emergency** and with partners agreed the **One City Climate Strategy** underpinned by a robust evidence base



# Our Journey - The City Leap Prospectus



- A slender document with unparalleled opportunities for our city...
  - Soft market testing 2018.
  - Procurement 2020-2022
- City Leap Partnership went live – January 2023



# What is Bristol City Leap?

- It's a joint venture company with our Leap Strategic Partner, Ameresco Ltd
- The council has let a **20-year Concession Contract** to Ameresco Ltd, to deliver and fund low carbon energy projects across the council's land and buildings
- Ameresco Ltd is BCC's pre-procured partner and has the **right of first refusal**, to deliver and fund **all** low carbon energy projects on the council's estate, including its social housing.
- Bristol City Leap works in collaboration with Services across the council, facilitated by a **new City Leap Client Function** in the council, to develop low carbon energy projects.
- These projects will need to meet **pre-set Project Acceptance Criteria** – if they do so, they will be approved by the council

# Our Partners

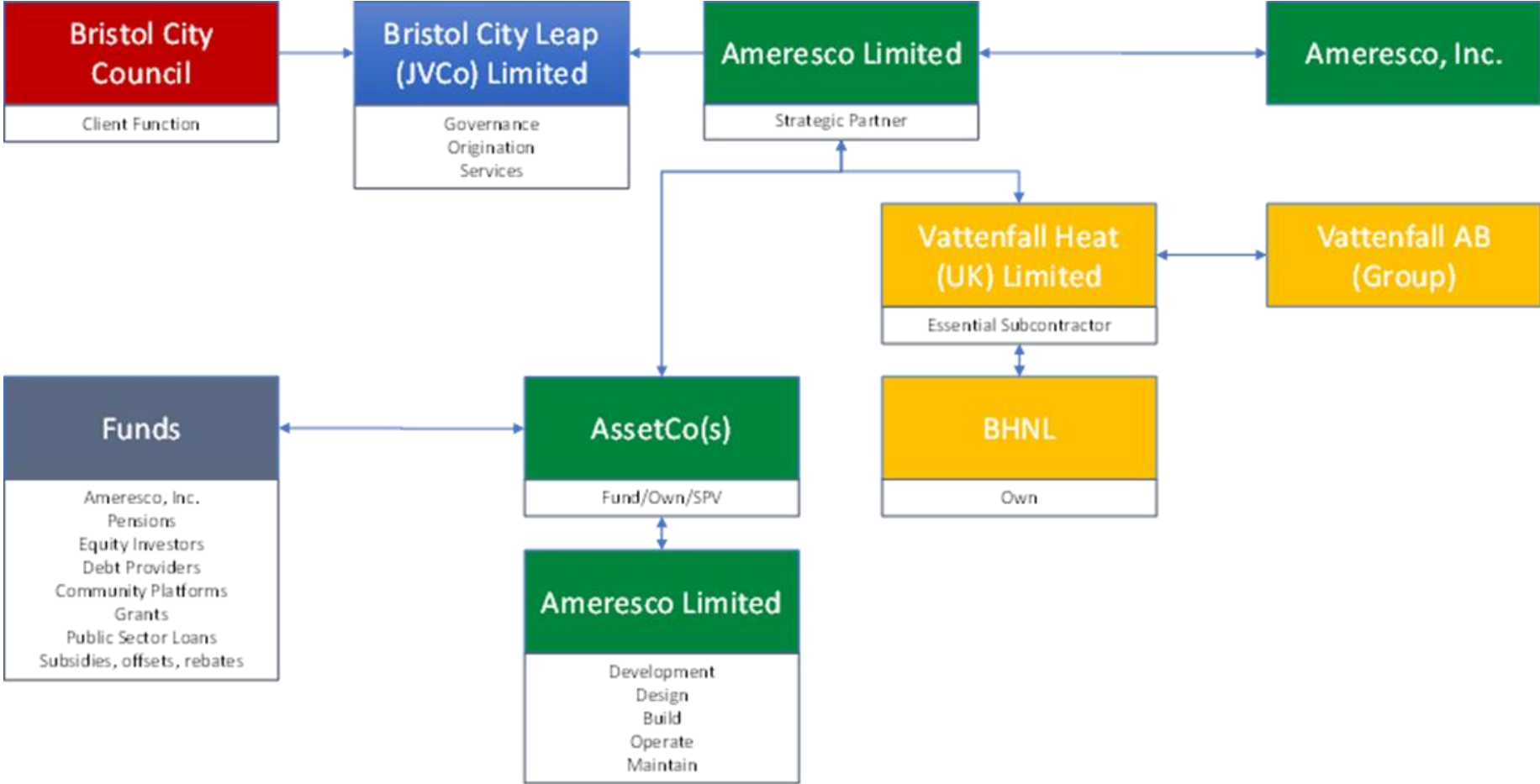


With...



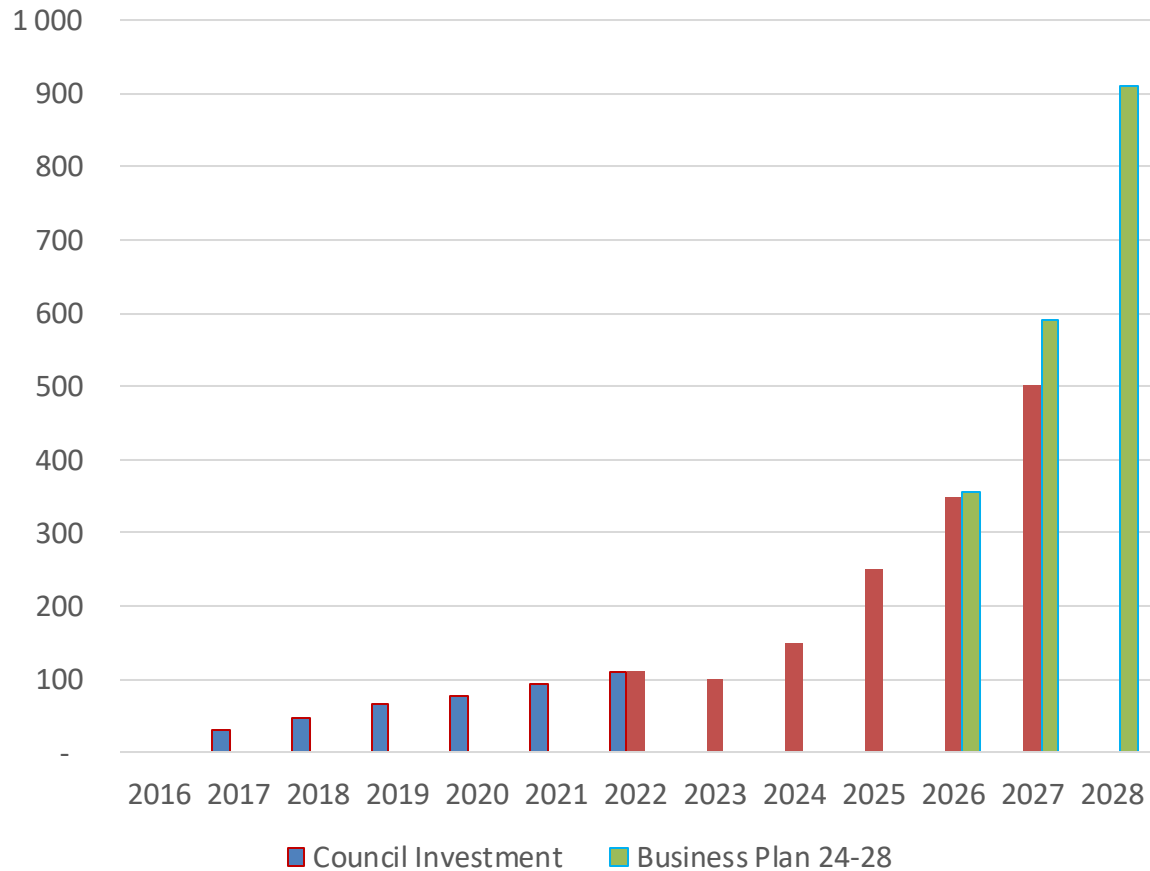
(Essential Sub-contractor)

# City Leap Structure



# Our Partners' Commitments

Past and Future Investment €m



- Deliver a minimum capital investment of c. €500m by 2027 and c€1.2bn over the 20-year partnership.
- Make the council’s own operations carbon neutral by 2025 (Scope 1&2).
- Improve the energy efficiency of the council’s social housing by 2030.
- Substantially expand the city’s heat network and make it carbon neutral by 2030.
- Making a material reduction in the overall carbon emissions for Bristol

# Co-benefits

- Create **over 1,000 new jobs, apprenticeships and work placements**
- **100% of people working on City Leap** will be paid at least the **Real Living Wage**
- A further €1.35m of social value
- Create new Funds to invest in the city:
  - €3m **Community Benefit Fund** over the term of the Concession
  - €1.8m **Community Energy Fund**
  - €0.6m **Research and Development fund**
- **Enable community investment into City Leap Projects** - 10% of capital requirement available to public subscription through a dedicated crowd funding platform – excluding heat network.



# Some reflections

- A replicable model – developed under EU legal requirements
- Social value and community engagement needs to be designed in early
- Length of concession/certainty of pipeline critical to securing local supply chain build out. chain build out.
- Requires both private sector and public sector willingness to take on risk:
- Bristol had the political backing and leadership to enable it to take risks
- Partners need to recognise potential opportunity justifying upfront investment and taking on development risk

## Success requires

- Understanding each other's key drivers and redlines
- Continued investment in the relationship (strategic and political)
- Appropriate clienting arrangements, contractual protections and council governance







# Case Study - Video

- [www.youtube.com/bristolcitycouncil](https://www.youtube.com/bristolcitycouncil)

## Overview of our Climate Action

- [www.bristol.gov.uk/council/policies-plans-and-strategies/our-action-on-climate-and-ecology](https://www.bristol.gov.uk/council/policies-plans-and-strategies/our-action-on-climate-and-ecology)

Video case study produced by Bristol City Council as part of the Bristol Net Zero Investment Co-innovation Lab, a project funded by the European Commission's Net Zero Cities Pilot Cities Programme as part of the Climate Neutral and Smart Cities Mission



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PART OF THE

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**EU MISSIONS**

CLIMATE-NEUTRAL & SMART CITIES

# Innovative Finance

**Alex Minshull**

City of Bristol



Funded by  
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# Knowledge repository

NET ZERO CITIES

FILTER RESOURCES

Type

- Document 0
- Canvas 0
- Climate City Contract 31
- Video 0
- Article 0
- Factsheet 0
- Method 0
- Case study (old) 0
- Case study 0

Tags

KNOWLEDGE REPOSITORY

Keyword research

Add Resource

Pilot guide book Quick reads Transition team playbook Communication playbook

31 Resources

Climate City Contract  
**Madrid Climate City Contract**

This Climate City Contract and Action Plan were submitted in 2023 by Madrid and endorsed by the European Commission resulting in the city being awarded the Mission Label.

Climate City Contract  
**Mannheim Climate City Contract**

This Climate City Contract and Action Plan were submitted in 2023 by Mannheim and endorsed by the European Commission resulting in the city being awarded the Mission Label.





# Best practices sessions

- Mapping and learning from the Mission Cities' best practices (solutions, governance processes, strategies, technologies) as a means to build capacity to accelerate the climate transition in the city. The purpose of these sessions is to **share lessons learnt from case studies and conduct a reflection session** with the cities and experts to:
  - Enable **reflexive learning** from Mission Cities' transition teams
  - **Analyse the effectiveness** of proposed best practices the CCC
  - Inform and support Mission Cities' **CCC iteration** cycle

