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THE CITY OF TOMORROW

MANAGING THE MAJOR URBAN TRANSITION TOWARDS CLIMATE NEUTRALITY

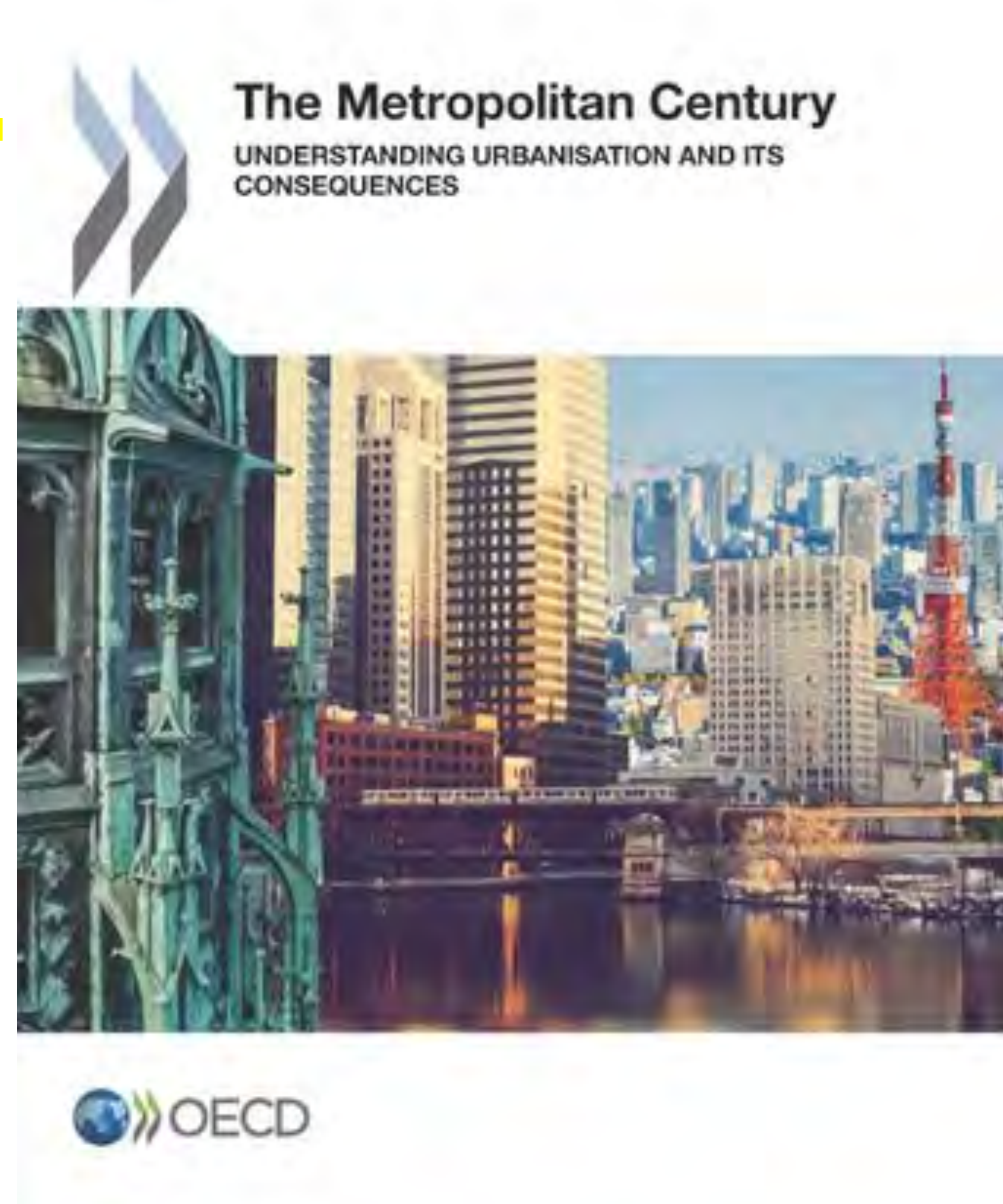


THE METROPOLITAN CENTURY

Urbanisation to grow from 50% to 85%

Growth Management OR Growth Mis-Management?

Managed urban Growth as an Opportunity for Transformation



CLIMATE NEUTRALITY - LIVABILITY - COMMUNITY - AFFORDABILITY



A GOOD CITY IS WHERE WE LIVE BECAUSE WE WANT TO - NOT BECAUSE WE HAVE TO..

MISSION AREAS:

Soil health and food



Climate-neutral and smart cities



Healthy oceans, seas, coastal and inland waters



Cancer



Adaptation to climate change, including societal transformation



#HorizonEU

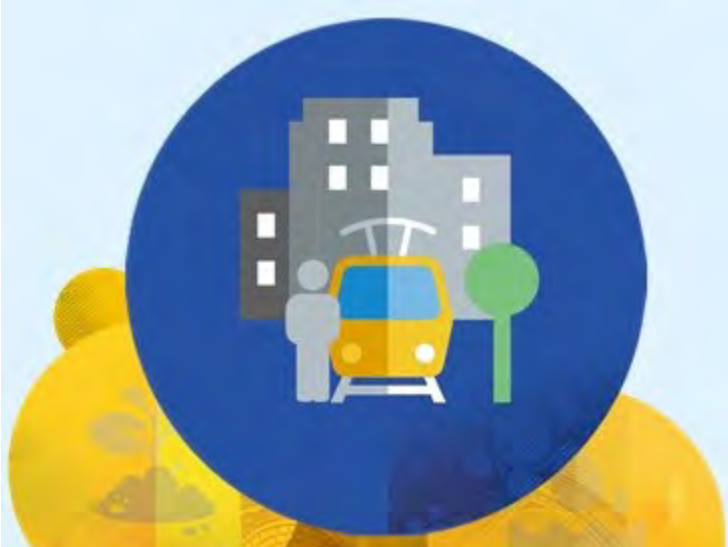


European
Commission

R&I Missions

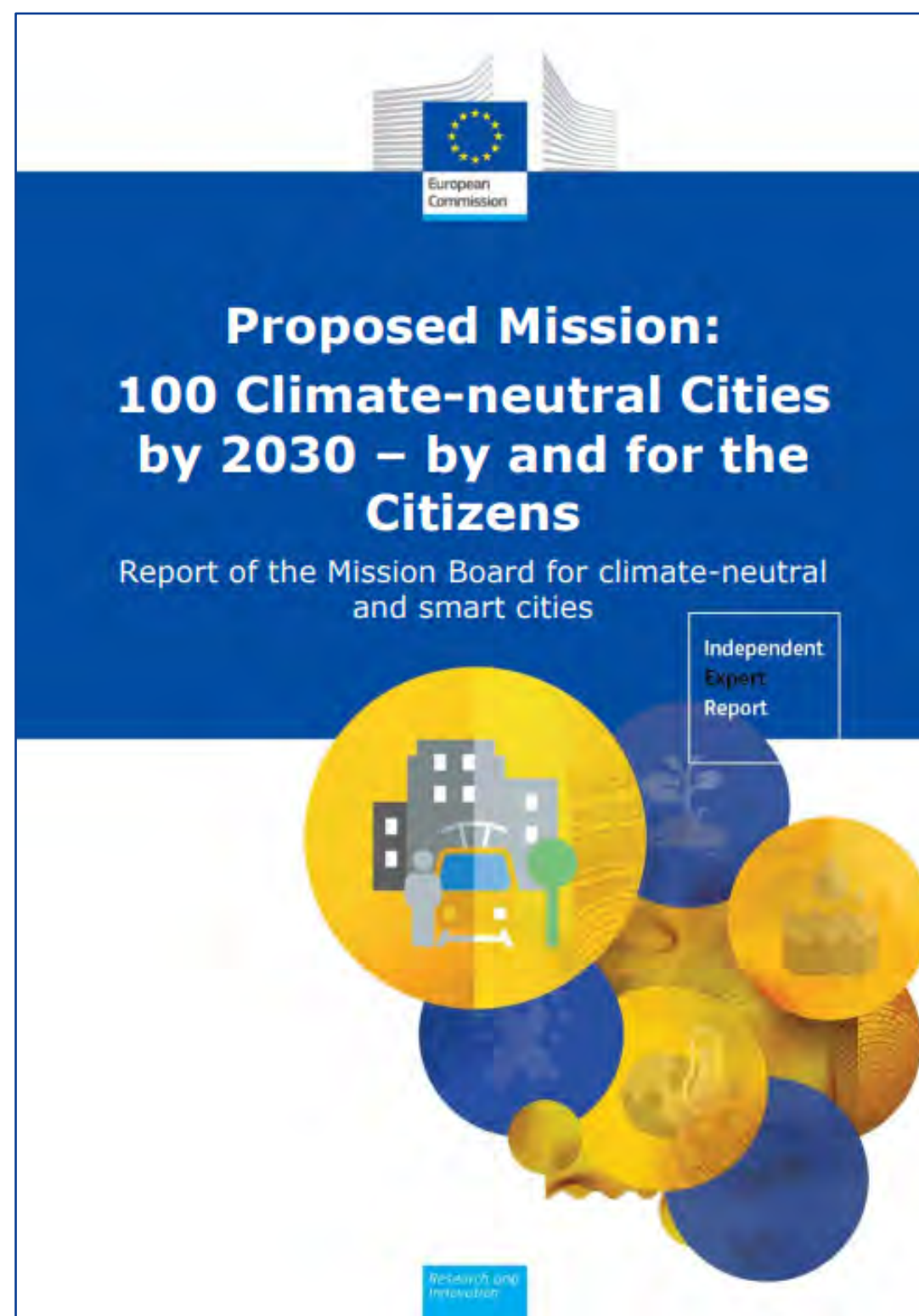
- Be **bold and inspirational**, with wide societal relevance;
- Indicate a **clear direction**: targeted, measurable and time-bound;
- Be **ambitious but realistic** research and innovation actions;
- Spark **innovation across disciplines**, sectors and actors;
- Be based on a **bottom-up approach** of multiple solutions
- **Engage citizens** in co-designing, co-creating, co-implementing and co-assessing missions





Proposed mission

100 CLIMATE-NEUTRAL CITIES BY 2030 - BY AND FOR THE CITIZENS



“Support, promote and showcase 100 European cities in their systemic transformation towards climate neutrality by 2030 and make these cities into experimentation and innovation hubs for all cities, thus leading on the European Green Deal and on Europe’s efforts to become climate neutral by 2050.”

A black and white photograph of two men in suits working on a large map spread on a table. One man is on the left, leaning over the map, and the other is on the right, also leaning over. A ruler and a pen are visible on the map. The text "FROM VISION TO STRATEGY" is overlaid in yellow.

FROM VISION
TO STRATEGY

How do we actually
plan a Climate-
neutral City?



The City Mission Strategy

Phase 1: Assessment, co-Design Vision and Targets

What:	Reaching climate neutrality and smartness by 2030 Define the thematic actions required (clusters/άξωνες)
When :	2030
Who:	City, National Government, EU City Mission Governance - Mission Team, Internal and External Resources, Stakeholders - Academia, Business, Citizens
How much :	approx. 700 mil Euros – (assuming 70,000 citizens)



Elements of the proposed mission

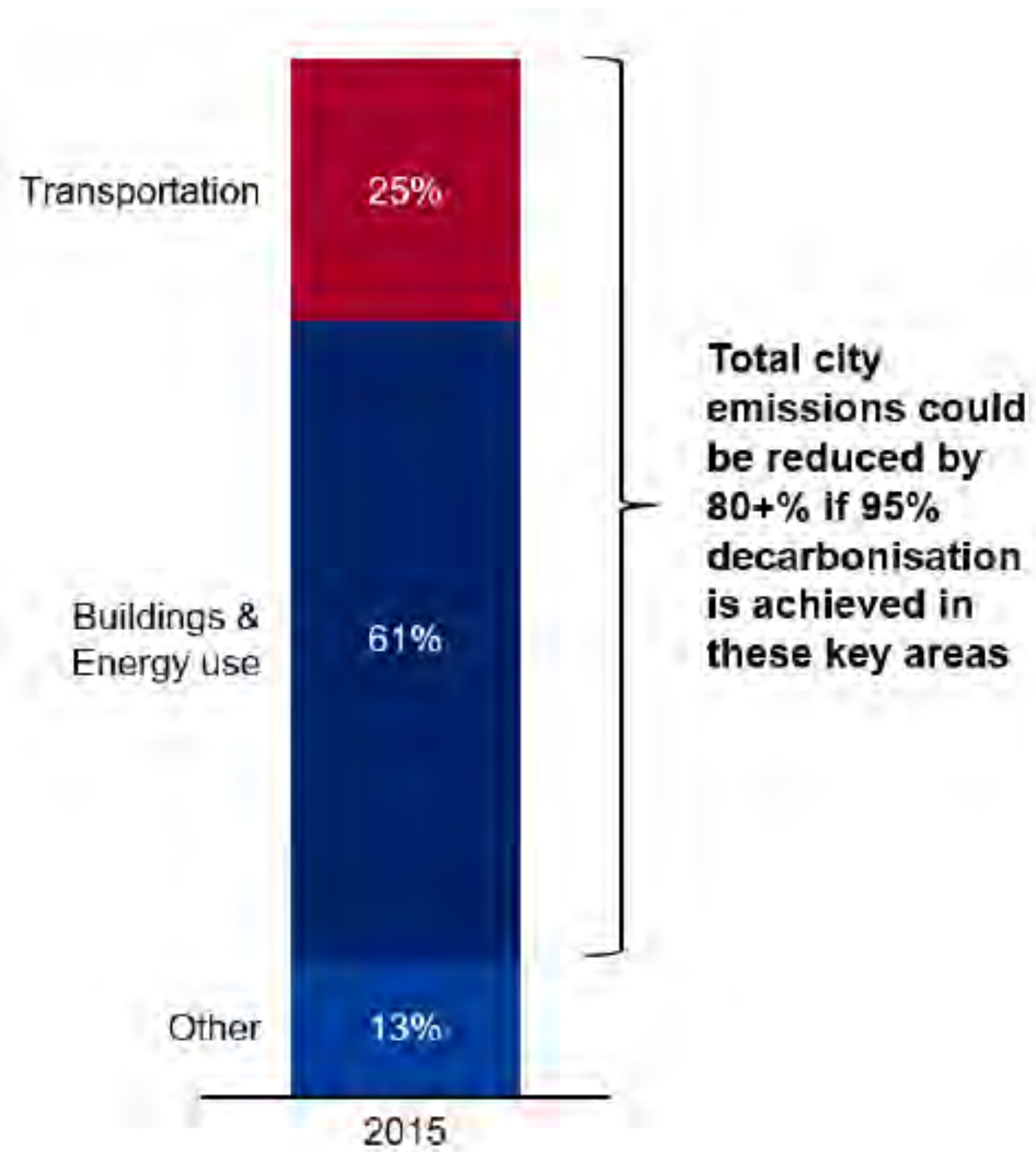
- **A new model of city governance** based on three principles:
 - *A holistic approach fostering innovation and deployment*
 - *A matrix of integrated and multi-level governance*
 - *A deep and continuous collaboration between all stakeholders*
- **A new role for citizens** in their different roles as political actors, users, producers, consumers or owners of buildings and transport means. *At least 1% of the funding granted by the EU to cities should be devoted to support citizens for the implementation of climate actions*
- **A Climate City Contract** as a new delivery mechanism signed by the Mayor, by the regional and national government and by the Commission
- **A new integrated form of funding and financing:** One-Stop-Shop, Lending & Blending Facility for Climate Cities, up to 10% of MFF to be geared towards the objective of the mission, structural and investment funds, EIB, “mission label”, green budgeting

Characteristics of the Mission

EU Mission
Climate-neutral and
smart cities



- Challenging and ambitious
- Aims to **promote system innovation** across the value chain of city investment,
- **Requires a change** in regulations, approaches and instruments combined with the willingness to go beyond existing schemes and habits.
- **Demands a change** of attitude towards practical aspects of implementation, but also as concerns people and organisations working together: citizens, local governments, central and regional governments, and European institutions.
- The Mission expects citizens, city administrations and political leaders to show **commitment, imagination and determination.**



Transportation

- Reduced passenger transportation need
- Increased car pooling
- Reduced & optimized logistics
- Shift to public & non-motorised transport
- Electrification of passenger cars
- Electrification of public transport
- Electrification of freight transport

Buildings & Energy use

- New buildings highly energy efficient
- Building energy efficiency renovations
- Efficient lighting & appliances
- Decarbonising heating
- Shift to renewable electricity

- **Investments estimate for 100 European cities by 2030**

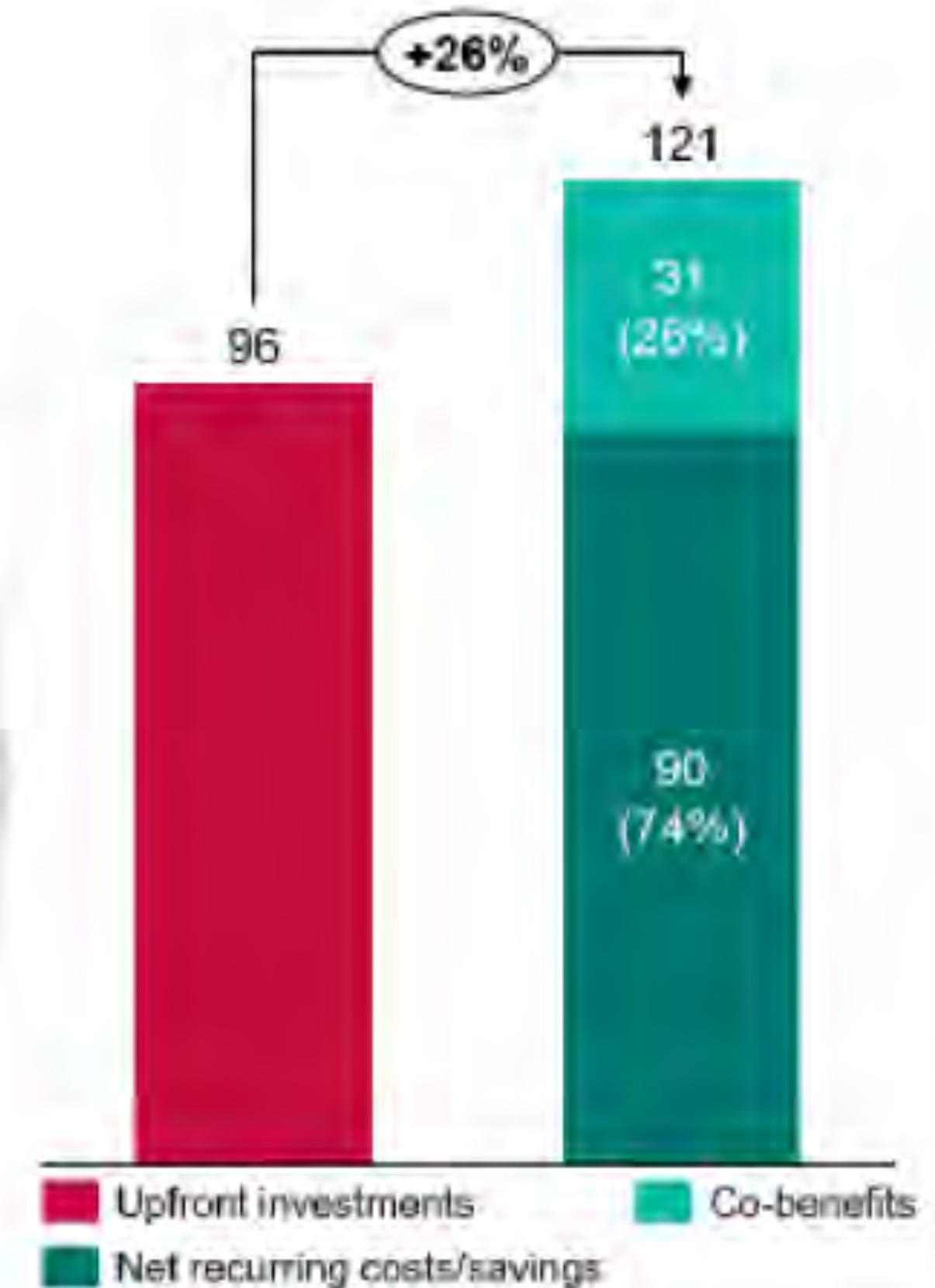
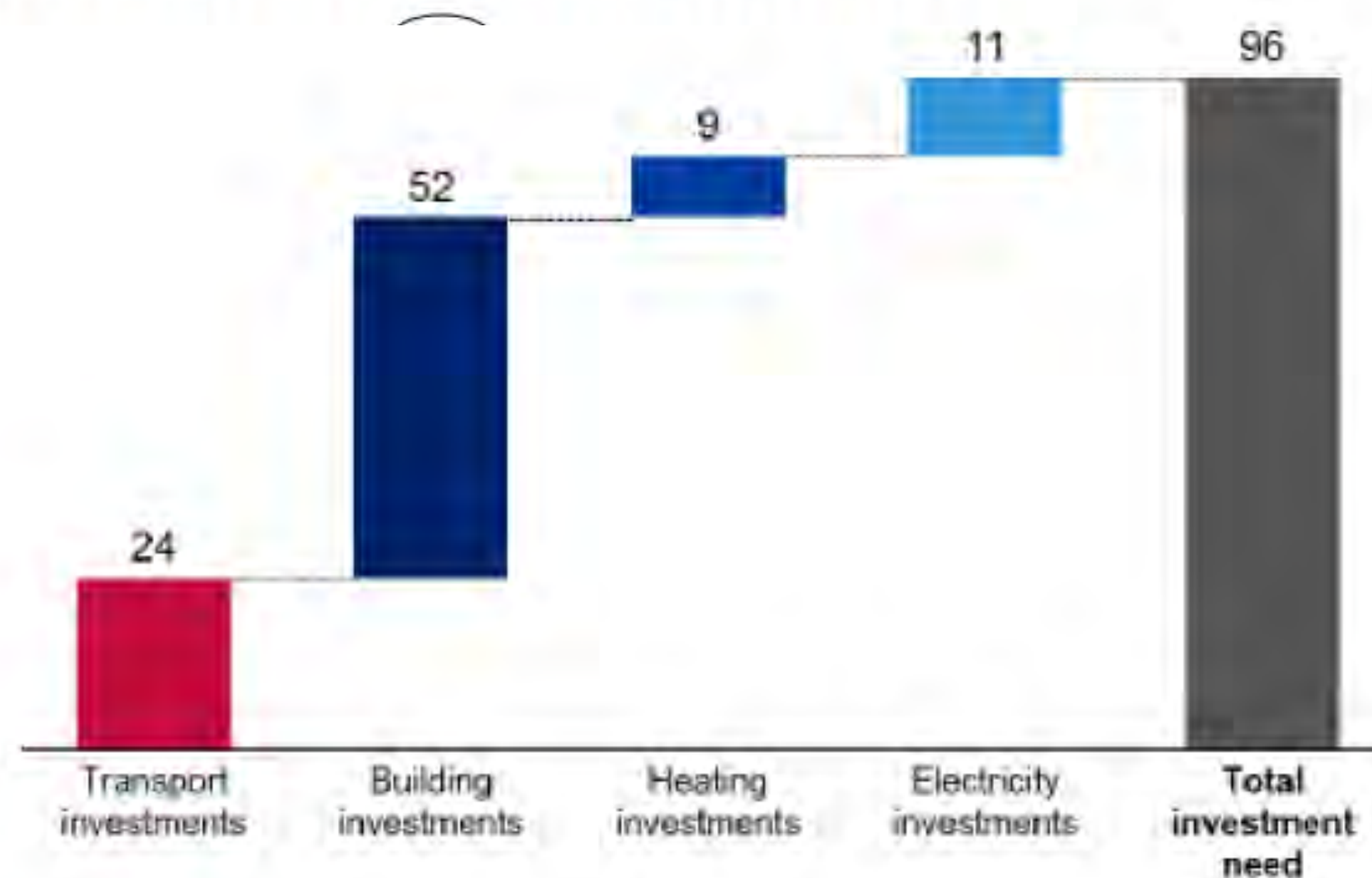
(each having an average population of ~100,000 citizens)

EUR 96 Bn

(EUR 52 Bn in buildings, EUR 9 Bn in heat generation, EUR 24 Bn for transportation, and EUR 11 Bn for electricity generation)

→ **# 10,000 € per citizen**

- Net positive economic case at 26 billion EUR on 2020-2060



Who should invest?

MFF < 10%

PUBLIC INVESTMENTS

Local/national/EU budget
Grants (direct subsidies)
Investment loans (subsidized)
Framework loans (subsidized)
Equity funds (i.e. Sovereign)
Public Procurement
Guarantees

PRIVATE INVESTMENTS

COMPANIES:

Sustainable funds
Private equity funds
Venture risk funding
Guarantees
Priv. companies investm.
(CAPEX or Equity)

CITIZENS:

Investment in private
assets
Crowd-funding
Donations
Philanthropy

HYBRID

Private-Public Investment Vehicle

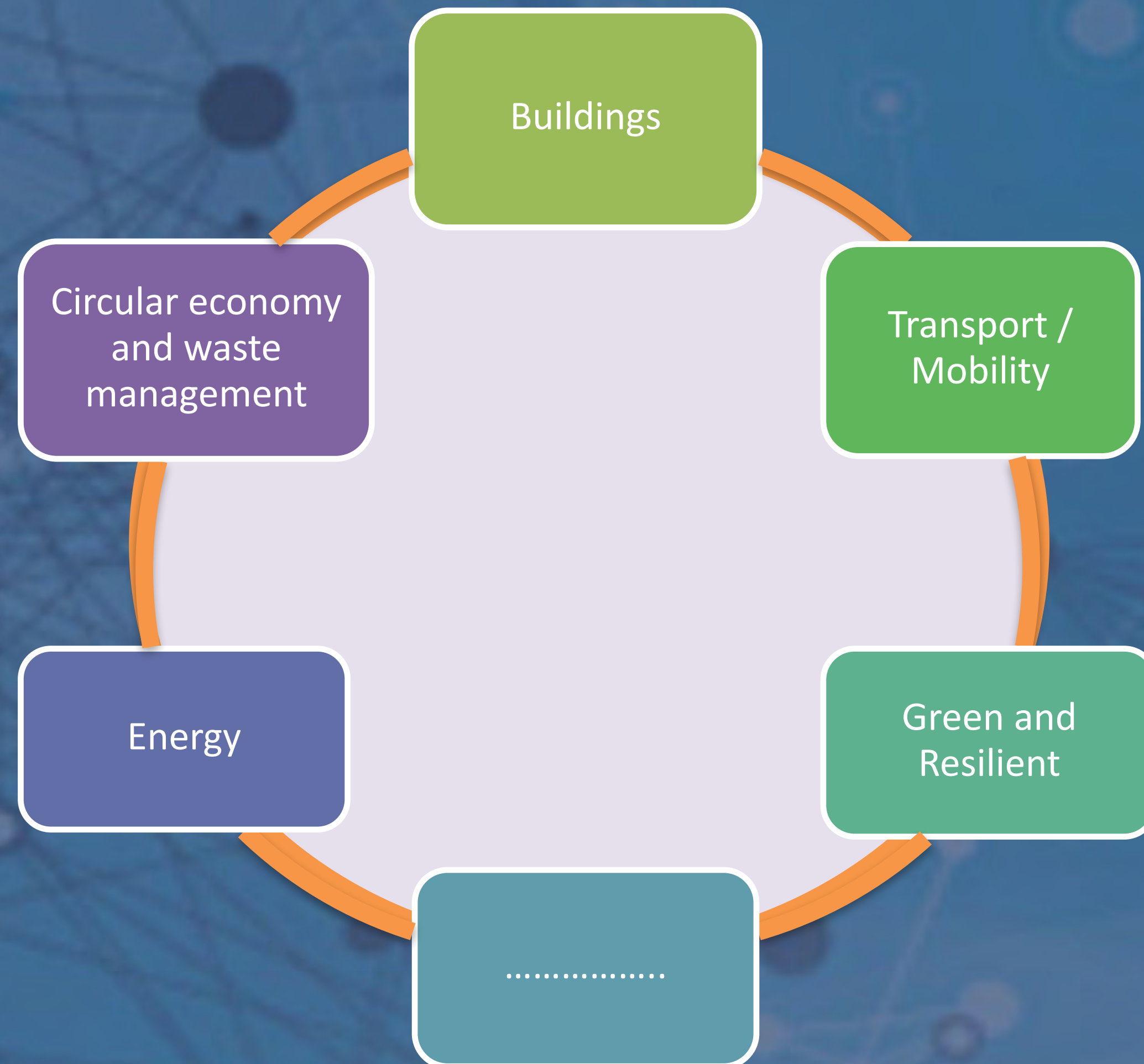
Source: Lumbreras, 2020



Mission Thematic areas / Targets

Identification and selection by considering :

the Mission holistic approach, based on the individual needs of each city (the “demand-led approach”).



Governance

EU Mission
Climate-neutral and
smart cities





The selection process

APPLICATION PROCESS

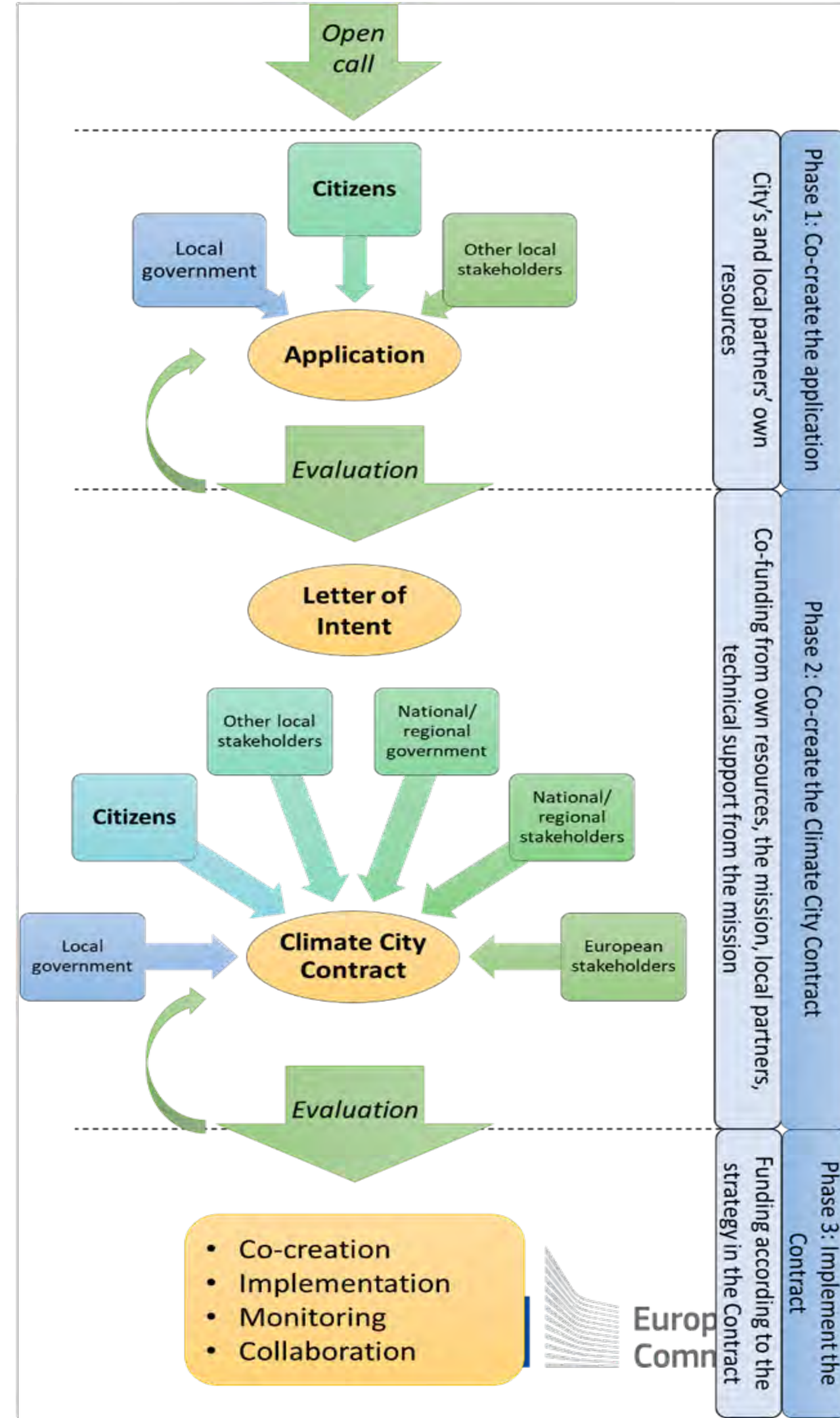
- Open, flexible and inclusive
- Based on co-creation

SELECTION OF CITIES

- Cities of all sizes, contexts and types
- Wide and balanced geographical coverage
- Commitment to engage the citizens in all phases

MONITORING PROGRESS

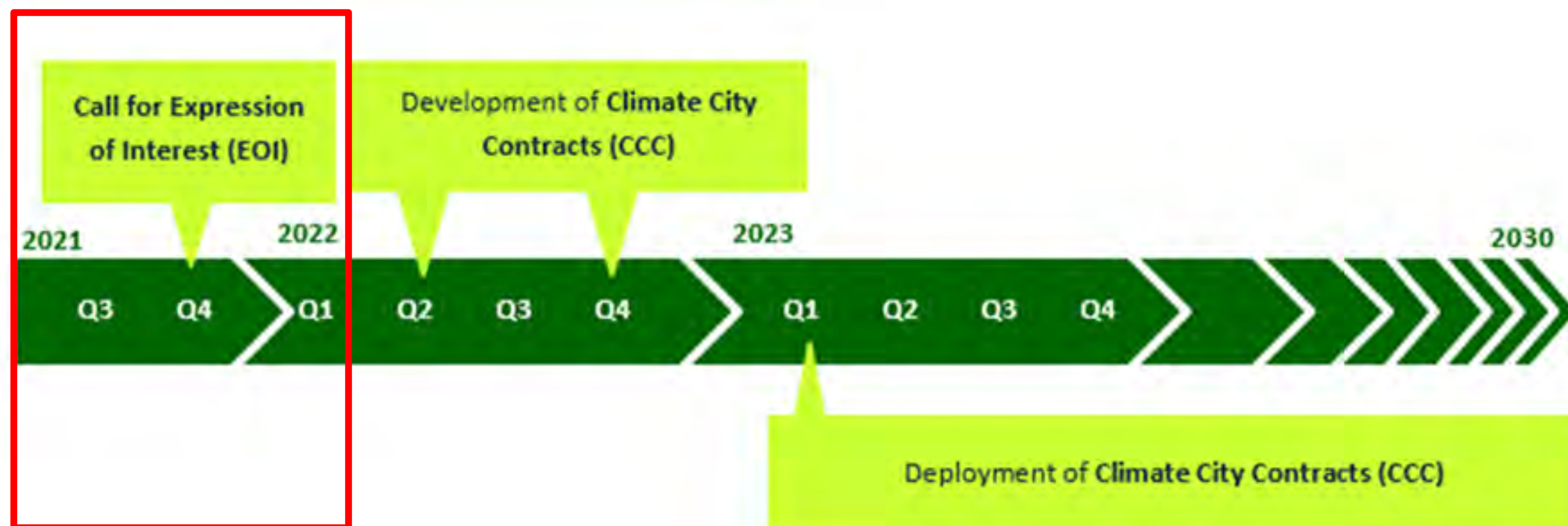
- Endpoint: mitigate and offset all GHG emissions
- Quantitative and qualitative indicators





This presentation

Outline of the application process and preparation guidelines
for Phase 1 – Expression of Interest



MANAGING THE TRANSITION

PUTTING A MAN ON THE MOON AGAIN...

