URBAN TRANSITIONS MISSION

MI • CENTRE

# Regional Conference: Advancing Urban Transitions in Africa

WUF12 Congress 2024

Cairo, Egypt, November 7, 2024

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In support of:

URBAN TRANSITIONS MISSION

Connected with:

NET ZERO CITIES

# Welcome &

# Introduction

**09:30 - 09:35**

*Speaker*

**Karel Van Oordt**
UTMC partner,
Project Coordinator Eurocities

*Speaker*

**Elli B. Tzatzanis-Stepanovic**
UTMC Project Coordinator,
Senior Project Manager, FFG

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the European Union

# Keynote Speech

**09:35 - 09:45**

*Speaker*

**Laura Hetel**
Climate-Neutral and Smart Cities Mission, DG Research & Innovation, EC

*Speaker*

**Ayman Ayad**
Delegation of the European Union to Egypt, EC

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09:45 – 10:00

# Session 1:

## Urban Transitions Mission (UTM) and UTMC community portal

Funded by the European Union

# Urban Transitions Mission (UTM) and UTMC community portal

*Moderator*

**Andrada Barata**
Head of Communication,
ENoLL

*Speaker*

**Elli B. Tzatzanis-Stepanovic**
UTMC Coordinator,
Senior Project Manager, FFG

*Speaker*

**Gianni Nardone**
UTMC partner, LGI

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# The UTM CENTRE

## Your needs, your platform, our support!

07/11/24

WORLD URBAN FORUM

Elli B. Tzatzanis-Stepanovic

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Connected with:

NET ZERO CITIES

# The UTM Centre

A global platform providing **funding sources, funding assistance, peer learning, and capacity building** to accelerate climate neutrality in cities

In support of: URBAN TRANSITIONS MISSION

Connected with: NET ZERO CITIES

Partners: FFG Forschung wirkt., European Network of Living Labs, ICLEI Local Governments for Sustainability, EUROCITIES, LGI sustainable innovation, GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

# Cities & Community

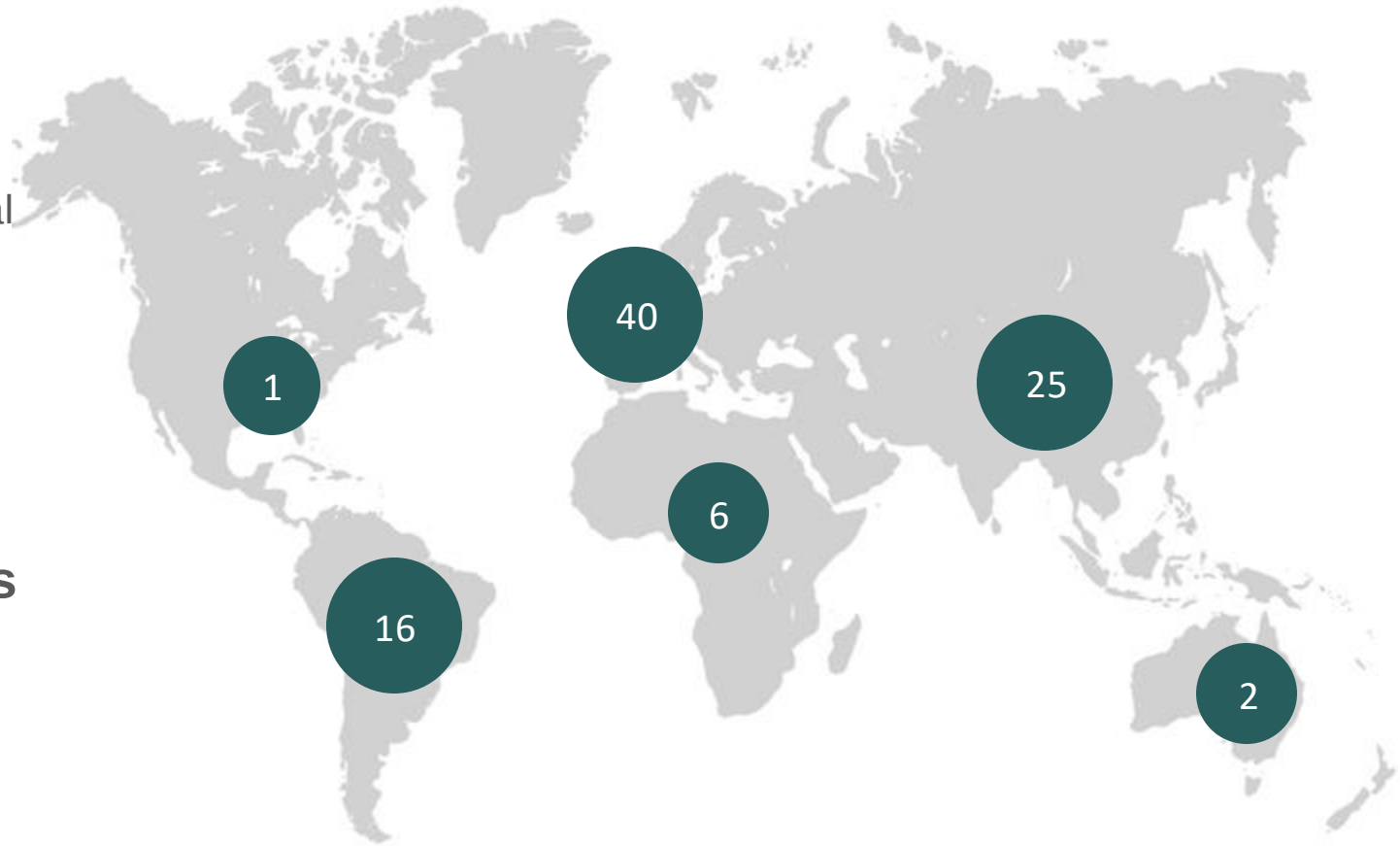
## 90 UTM Cities

To inspire other cities*!

*112 cities of the EU Mission for climate-neutral and smart cities

## 850+ Platform Users

Accelerating local action!




**Multilevel Government Ecosystems**

- -Mayors
- -City Staff
- -Experts
- -Academia & Researchers
- -Consultants
- -Companies, SMEs

# The Community Platform offers

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**FUNDING ASSISTANCE**

- Global Funding Watch
- Finance Toolkit

**KNOWLEDGE REPOSITORY**

- New Resources
- Existing databases

**CAPACITY BUILDING & EXCHANGE**

- Groups for exchange
- Moderated Learning

**DISSEMINATION & AWARENESS**

- News on CN & NZ
- Events on CN & NZ

# Explore the UTM Framework!

URBAN TRANSITIONS MISSION MI CENTRE

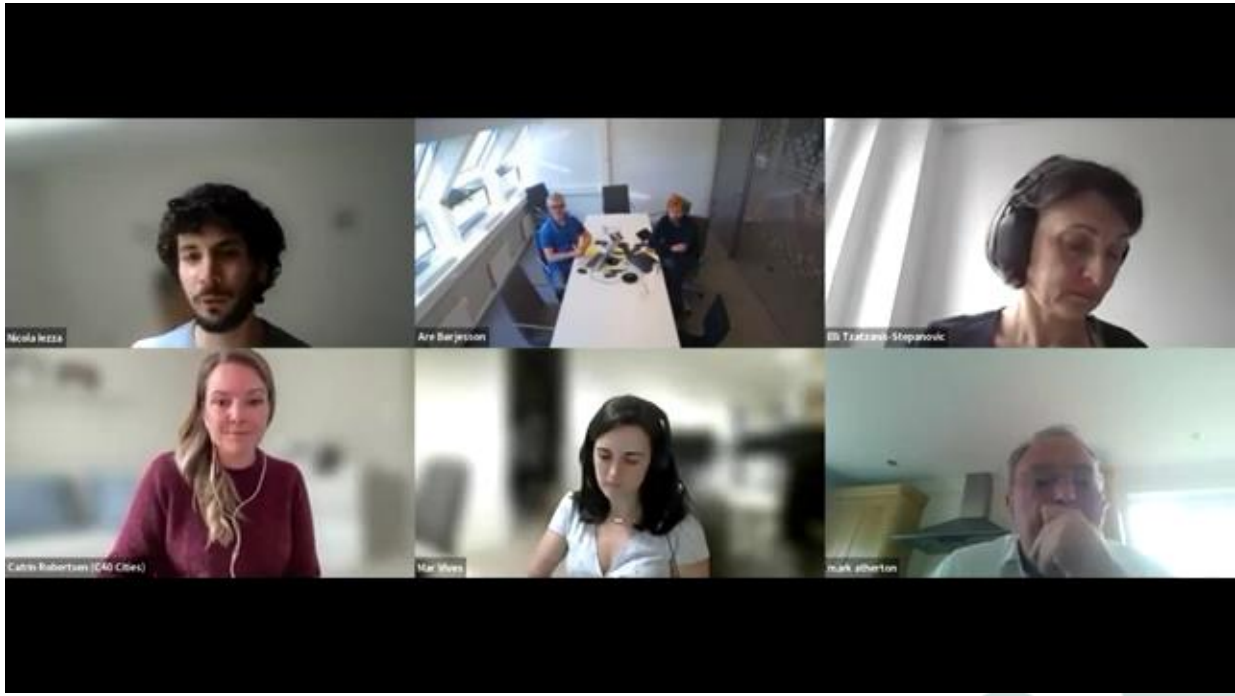

**A step-by-step Guide for cities** with **resources** to improve their **climate strategies** and **prioritize action**

# Funding Assistance

## Finance & Funding Helpdesk
Guiding and answering financing routes

## Global Funding Watch
Mapping Funding Opportunities

## Finance Knowledge & Sessions
Assisting your journey through tailored resources



# Knowledge Repository

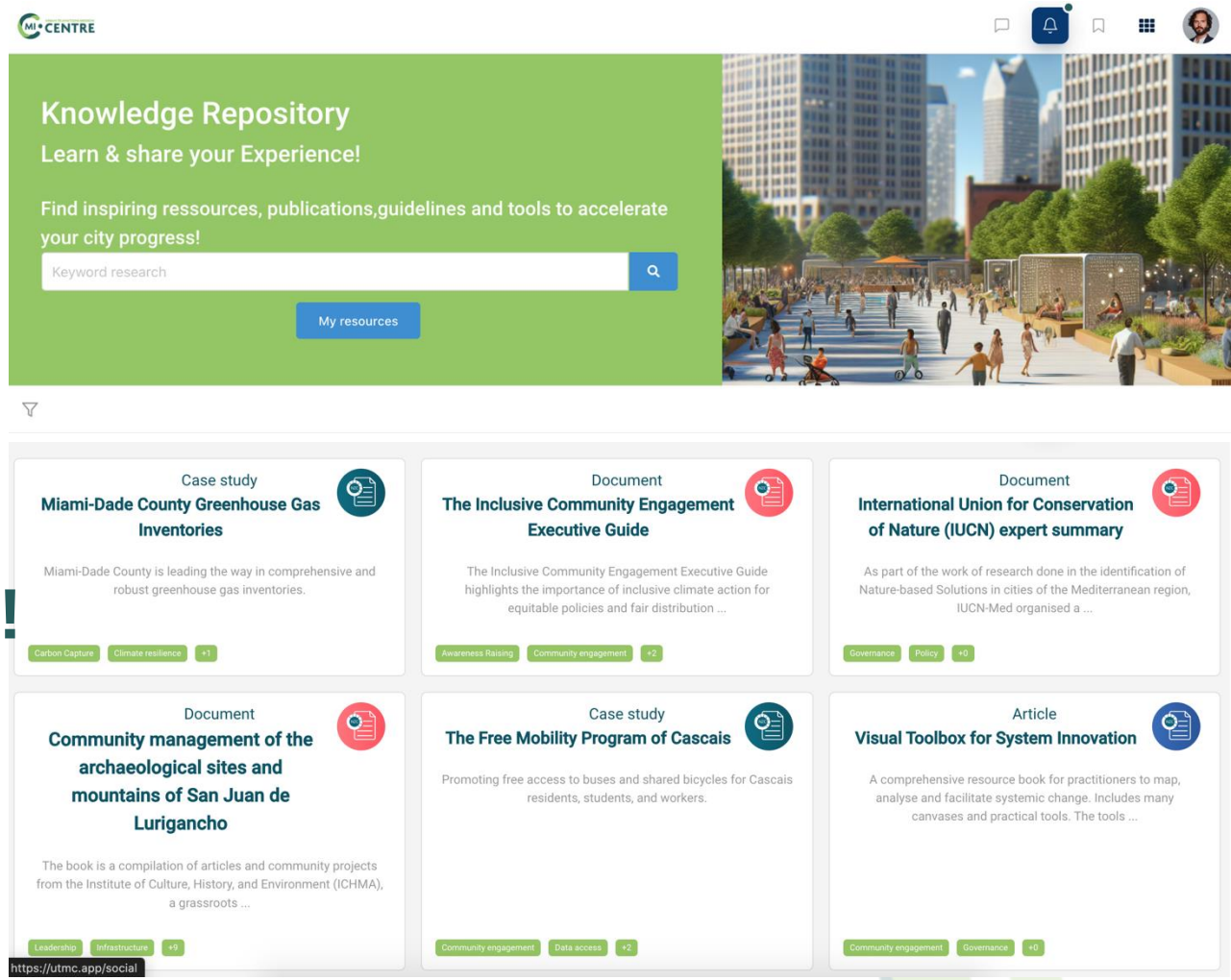
## Variety of Resources

- Case Studies from cities
- Tools
- Guides
- Reports
- Articles
- Event Recordings

## Showcase your City Progress!

Engage citizens, share with experts and bid for calls!

- *Written Case Studies*
- *Promotional Videos*
- *Interviews*



# Capacity Building&Exchange

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## Learn from a diverse offer

- Peer Exchanges
- Trainings
- Webinars
- Courses
- Virtual Coffees
- Conferences
- Platform Discovery Tours

# Capacity Building&Exchange

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## Join the 7 UTM Clusters!

Exchange in groups and channels about the most relevant topics for your city

01
Finance

02
Governance

03
City Scale Data & Scenarios

04
Transport & Mobility

05
Sustainable Energy

06
Nature Based Solutions

07
Water Management

# Dissemination&Awareness

- **Newsletter**
  News, opportunities, calls, etc.
- **Events Calendar**
  Engagement in global events & forums
- **Partnerships**
  Synergies with similar projects & allies

# Coming soon

- **Community Platform Discovery Tour**

Thursday, 14 November 14:00 CET (Online)

- **UTM Virtual Coffee – Governance**

Wednesday, 20 November 14:00 CET (Online)

- **UTM Virtual Coffee – Data**

Tuesday, 11 December 14:CET (Online)

# Join the Community Platform!

- **Register: https://www.utmc.app/**
- **Registration tutorials:**

  **+ Video "Register as City Officer"** for city representatives, employees of a municipality, https://vimeo.com/834333395/09659e98a5?share=copy

- **+ Video "Register as Community of Practice or Local Partner"** for anyone employed by a public or private organization, or city user that is not a municipality. https://vimeo.com/834333420/c93910600d?share=copy

# Thank you & stay tuned!

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UTMC has received funding from the European Union's Horizon Europe programme under the Grant Agreement n°101095976 — Call: HORIZON-MISS-2021-CIT-02 — Project name: Global Knowledge Exchange Centre (GKEC) for Urban Climate Neutrality

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UTMC.APP

**Join the Community Platform!**
https://www.utmc.app/

https://urbantransitionsmission.org/centre/

@Urban Transitions Mission Centre

@UTMCproject

10:00 - 11:15

# Session 2:

## **Voices from cities –** City case studies of urban transitions in Africa

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# Voices from cities: City case studies of urban transitions in Africa

*Moderator*

**Kanak Gokarn**
Sustainable Energy Policy Officer, ICLEI World Secretariat

*Speaker*

**Trevino Forbes**
Mayor of Walvis Bay, Namibia

*Speaker*

**Fernand Yapi**
Climate and SDG Expert, Cocody, Abidjan, Ivory Coast

*Speaker*

**Mumuni Tijani**
Head of Physical Planning Department, Ablekuma Central Municipal Assembly, Accra, Ghana

10:05 – 10:15

# Overview of Walvis Bay's focus on sustainable urban development and unique challenges faced.

**Trevino Forbes**
Mayor of Walvis Bay, Namibia

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# WUF12 Congress 2024

European Network of Living Labs

## *Cassava processing, improvement of the village living environment and the urbanization of Cocody*

District Autonome d'Abidjan
COMMUNE DE
COCODY

## Context

The galloping urbanization of the commune of Cocody has led its ATCHAN coastal villages to change and coexist with the modernization it brings; namely its real estate operations marked by the presence of large buildings, asphalt roads with all the major works that accompany it. This is how during one of our forums that took place in the village of Blockhaus that the Association of Atchan Women of the 6 Villages of Cocody, spoke to us about the problems of this cohabitation and the socio-economic and environmental difficulties that they encounter with the production of Attiéké.

## State of play

The production of Attiéké for more than 40 years by the indigenous population of the coastal villages of the commune of Cocody has considerably destroyed the living and environmental environment.

## Findings

Problems of sanitation, waste management, air pollution and lagoon bays, malodorous nuisances... As part of the PAAEDC, a steering committee comprising all the socio-economic actors of the village and a council of elders headed by the village chief were set up to jointly address the aforementioned problems in order to review and improve the Attiéké manufacturing model. This will help facilitate the integrated urban and village planning programs driven by the municipal council.

European Network of Living Labs

This project aims to make the transformation of cassava into local food, namely Attiéké, more ecological, to create sustainable jobs for young people and women by preserving the environment while developing income-generating activities that boost the local economy.

This project contributes to achieving the objectives of resilience and reduction of greenhouse gas emissions of the municipality by 203,445.7 tCO2eq/year as part of the development and implementation of the Action Plan for Access to Sustainable Energy and Climate (PAAEDC) of the municipality; which is itself a strategic axis of our Local Development Plan

## Innovation

Construction of a production unit with a manufacturing line made up of machines and equipment that are manufactured in Ivory Coast to replace all manual tasks carried out by women and responsible for polluting waste that is transformed into biogas by two (2) biodigesters.

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## Expected results

- Women and girls from village communities are organized into socio-economic structures and trained in the use of ecological production equipment and made aware of environmental concepts and the fight against global warming ;
- Manufacture and installation of effective, efficient and environmentally friendly production tools such as the improved oven or hearth;
- Significant reduction in the use of firewood that emits a lot of CO2 thanks to the improvement of the cooking process ;
- Reduction in the number of butane gas cylinders thanks to the improvement of the cooking process ;
- Production of Biogas with the waste produced by the activity and reusable for cooking, thanks to the two Biodigesters;
- Cleanliness of the living environment, improvement of air quality, disappearance of smelly nuisances and use of living spaces and green spaces,

EURO CITIES

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- An improvement of existing activities and the emergence of new sustainable jobs;
- A healthier and more beautiful living environment for the populations;
- On average, 200 women and girls from the beneficiary village are monitored and supervised by an NGO ;
- Empowerment of women, poverty reduction, circular economy, respect and protection of the working environment, protection of the environment, biodiversity and ecosystems, improvement of health and good management of water and sanitation;
- Implementation of a local development model that is sustainable, respectful of the environment and emits less greenhouse gases;
- Replicate the project in the ten (10) coastal villages of the commune of Cocody.

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**On the technical level**

*The project allows the use of machines manufactured in Côte d'Ivoire which along the production chain promote effective, efficient, environmentally friendly production and facilitate a circular economy with the use of peelings and effluents for the production of biogas for its reuse in cooking.*

**On the social level**

*The living environment has become healthier and more pleasant with the production of more profitable Attiéké, offering more substantial income.*

**On the organizational level**

*The women and young girls producing Attiéké are organized into Economic Interest Groups (GIE), promoting the pooling of forces, goods and resources, thus giving them the legal personality to be able to benefit from or apply for bank loans,*

**Regarding the territorial scope**

*It is carried out in the village of BLOCKAUSS, it could extend to the 10 villages of Cocody, at the national, sub-regional and regional levels.*

**In terms of method and operating mode**

*Model replicable on a large scale*

**In terms of economy**

*This economically viable project with the creation of future production units.*

**In terms of governance**

*Project led by the Chiefdom and supported by the Cocody Town Hall with the participation of all stakeholders in the socio-economic fabric of the village.*

**The possible obstacles, limits, constraints (internal or external) to the development of the project**

*The difficulty for some women to attend meetings due to their many household tasks in addition to selling attiéké, The administrative burden, which delays the provision of funding from the Town Hall, the biodigesters which may not be efficient or powerful enough to produce biogas with real cooking potential.*

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# SOME MACHINES FROM THE ATTIEKE ORGANIC PRODUCTION UNIT

CRUSHER

WRINGER

EMOTOR

SEEDING MACHINE

GAS COOKER

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# WUF12 Congress 2024

District Autonome d'Abidjan
COMMUNE DE
COCODY

# *MERCI*


**YAPI Albert Fernand Okeke**

**Focal Point Covenant of Mayors for Sub-Saharan Africa / UTM**

**CITY OF COCODY**

**+225 0707117605**

**yapifernand@gmail.com**


**https://www.climate-chance.org/bonne-pratique/cocody-cite-verte-puits-de-carbone/**

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10:25 – 10:35

# Presentation on Accra’s planning strategies and the role of local governance in urban transition.

**Mumuni Tijani**
Head of Physical Planning Department, Ablekuma Central Municipal Assembly, Accra, Ghana

Funded by the European Union

# GHANA'S URBAN TRANSITION PROCESS

**Presented by Mumuni Tijani**
**Head Of Physical Planning Department**
**Ablekuma Central Municipal Assemble**
**Accra**

# PRESENTATION OUTLINE

1. INTRODUCTION
2. MAP OF GHANA SHOWING URBANIZED AREA
3. TRIGGERS OF URBAN TRANSITION
4. GHANA'S URBAN TRANSITION PROCESS
5. CHALLENGES ASSOCIATED WITH URBAN TRANSITION
6. PHOTOS SHOWING IMPLEMENTED PROJECTS
7. CONCLUSION

# “Urbanization is no longer a debatable issue, the time to act is now.”

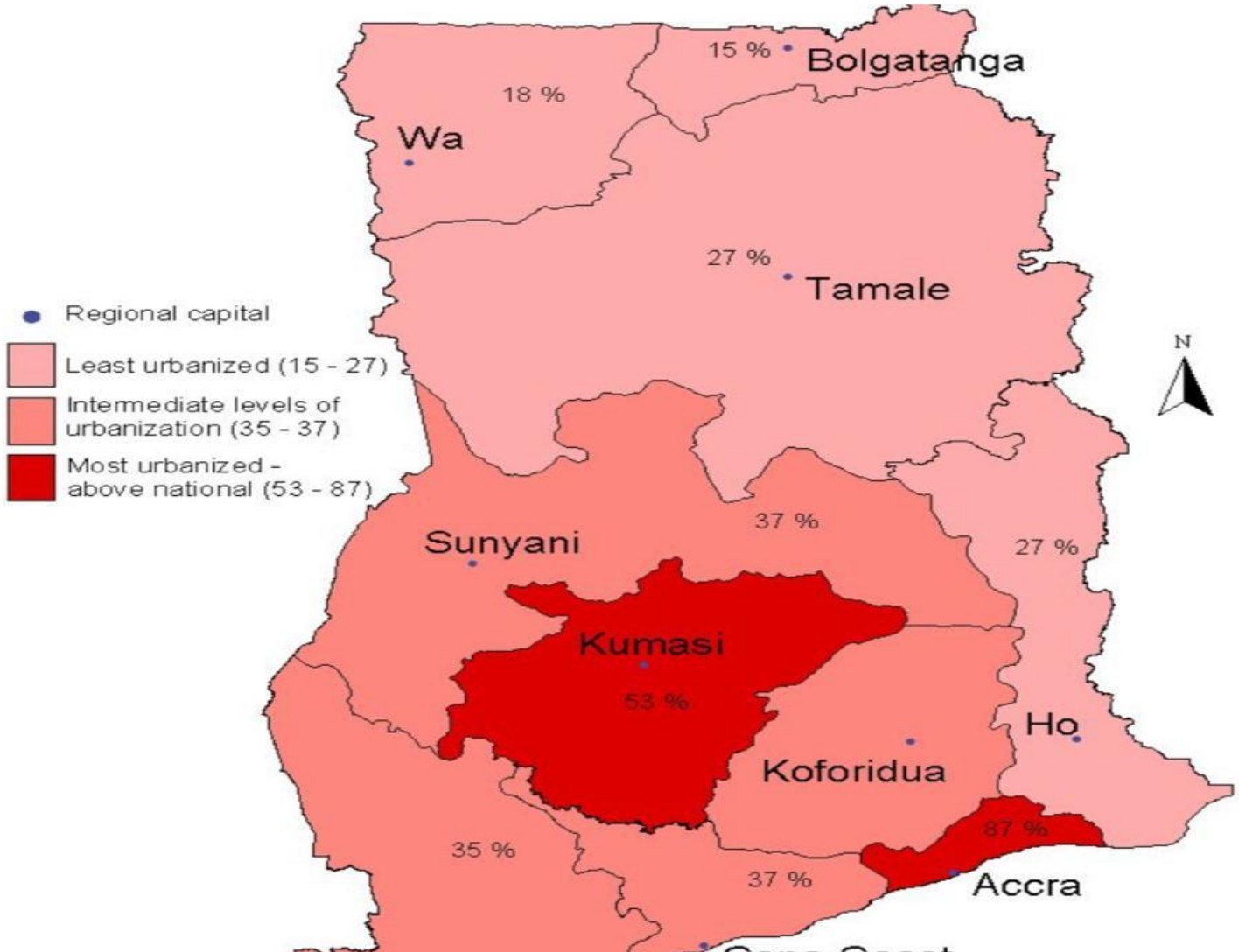
# INTRODUCTION

The global population is expected to reach 5 billion by 2030, with 3.3 billion people living in urban areas for the first time in history (UN-HABITAT, 2008a).

Ghana is becoming increasingly urbanized, with close to 65% of the population expected to live in cities by 2050. Urbanization rate has surged from 23% in 1960 to over 56% by 2020, making it one of the most urbanized West African countries. Major cities like Accra, Kumasi, and Takoradi attract people for employment opportunities.

Admittedly, urbanization has contributed to Ghana's economic growth and modernization, it has also introduced challenges However, urbanization also presents challenges like infrastructure strains, informal settlements, urban sprawl, and environmental degradation. The government has implemented policies such as National Urban Policy Framework and Action Plan to manage sustainable growth.

**Fig 1. Urban Population as a Percentage of total Population**



# TRIGGERS OF URBAN TRANSITIONS

- Ruaral-Urban Migration.
- Natural population growth
- Insufficient electricity power supply.
- Traffic Congestion in the urban areas.
- Environmental pollution ie solid waste, increased greenhouse emissions
- Urban sprawl.
- Environmental degradation

# GHANA'S URBAN TRANSITION PROCESS

**Environment**

- Urban planning - Preparation of spatial plans and Revision of outdated plans
- Green policy initiative
- Protection of our urban forest coverage as a way of responding to climate change issues.

**Transportation**

- Implementation of Bus Rapid Transport system
- Implementation of Electric Vehicle program which is aimed at reducing emissions
- Expansion of road infrastructure ie construction of interchange,
- Expansion of railway lines

**Education**

- Implementation of Free Senior High School policy
- School feeding program
- Opening access to education ie School infrastructure development

**Sanitation**

- Construction of new engineered sanitary landfill with gas capture
- Increase the coverage sanitation infrastructure

# CONTINUATION

**Trade and industry**

- Industrial revolution ie One district, one factory initiatives
- Implementation of permit process system ie turn around time for issuance of permits are put in check to avoid delayance

**Works and housing**

- Affordable housing project and densification for redevelopment
- Greater Accra Resilient and Integrated Development Project (GARID) – to improve flood risk and solid waste management within the Odaw River basin.
- The project seeks to integrate nature-based solutions to serve buffers

**Health**

- Construction and Upgrading of hospital across the 16 regional capitals
- Implementation of agenda 111 hospitals
- Opening access to education ie putting up school infrastructure

# CHALLENGES ASSOCIATED WITH THE PROCESS

- Land tenure system in Ghana
- Expensive to implement projects i.e Railway development, construction of interchange
- Inadequate funds

# PREPARATION OF SPATIAL PLANS

# ROAD INFRASTRUCTURE DEVELOPMENT

# RAILWAY DEVELOPMENT

# INDUSTRIAL REVOLUTION


# CONCLUSION

Ghana's urban transition highlights the challenges of rapid urbanization, requiring effective planning, sustainable infrastructure investment, and inclusive policies. By prioritizing resilient systems and equitable development, Ghana can serve as a sustainable development model for other African nations.

# THANK YOU

# Voices from cities: Panel discussion and Q&A

*Moderator*

**Kanak Gokarn**
Sustainable Energy Policy Officer, ICLEI World Secretariat

*Speaker*

**Trevino Forbes**
Mayor of Walvis Bay, Namibia

*Speaker*

**Fernand Yapi**
Climate and SDG Expert, Cocody, Abidjan, Ivory Coast

*Speaker*

**Mumuni Tijani**
Head of Physical Planning Department, Ablekuma Central Municipal Assembly, Accra, Ghana

11:15 - 11:45

# Coffee Break

Next → Session 3: *System innovation: A Funders' Dialogue for Africa*

Funded by the European Union

11:45 - 13:15

# Session 3:

## **System innovation: A Funders' Dialogue for Africa –** Best practice examples and case studies

Funded by the European Union

# Welcome & Opening
# Funders' Dialogue for Africa

**Nicola Lezza**
UTM F&F Helpdesk Manager,
GCoM

**Karel Van Oordt**
UTMC partner,
Project Coordinator Eurocities

# The Status of Urban Climate Finance & Funders perspective: a dialogue

**Nicola Lezza**
UTM F&F Helpdesk Manager, GCoM

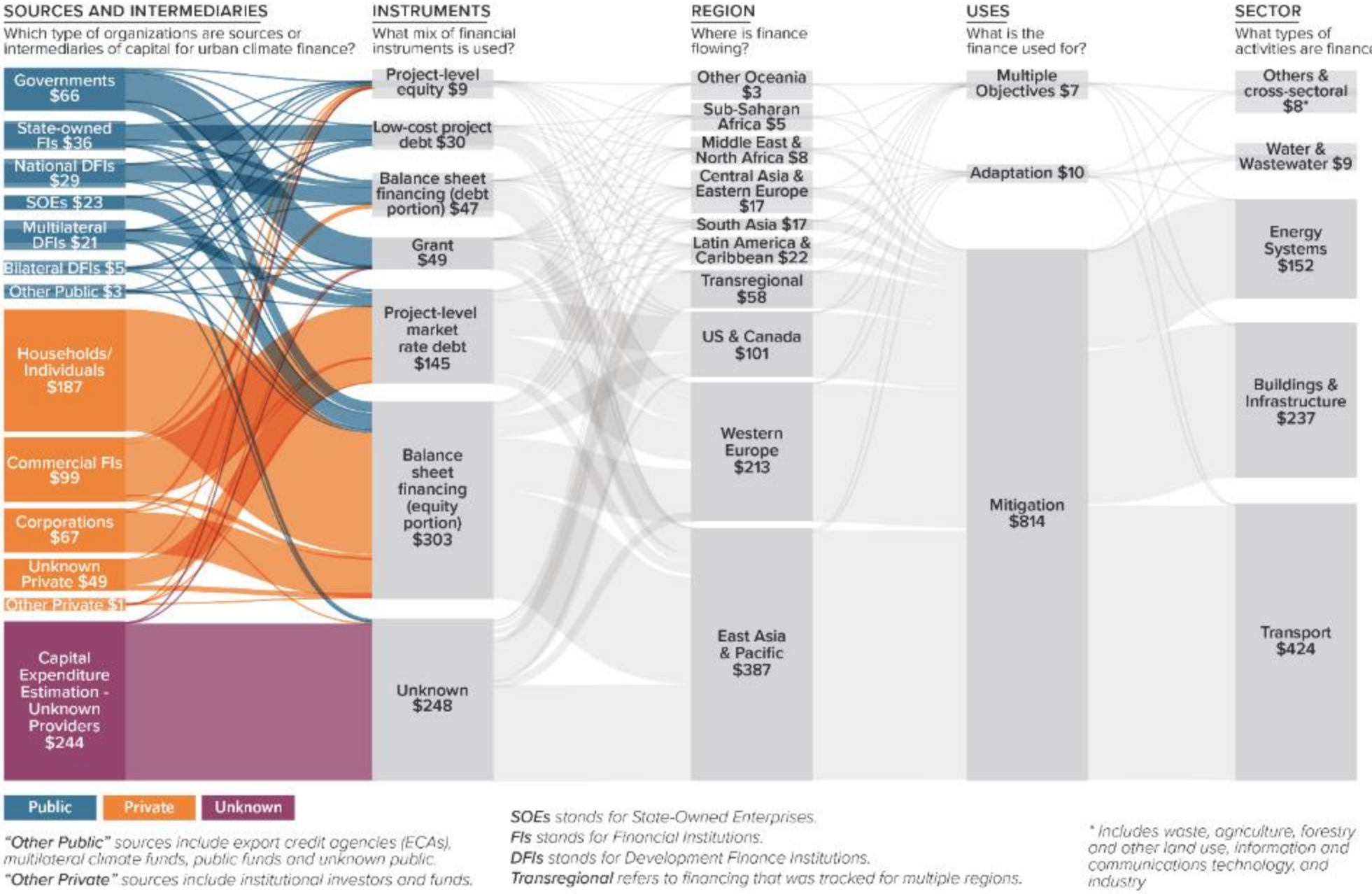
*Moderator*

**John Michael LaSalle,**
PPF Connector Manager, CCFLA

*Speaker*

# The 2024 State of Cities Climate Finance

John Michael LaSalle, Senior Program Associate, Cities Climate Finance Leadership Alliance (CCFLA)




*"Other Public"* sources include export credit agencies (ECAs), multilateral climate funds, public funds and unknown public.
*"Other Private"* sources include institutional investors and funds.

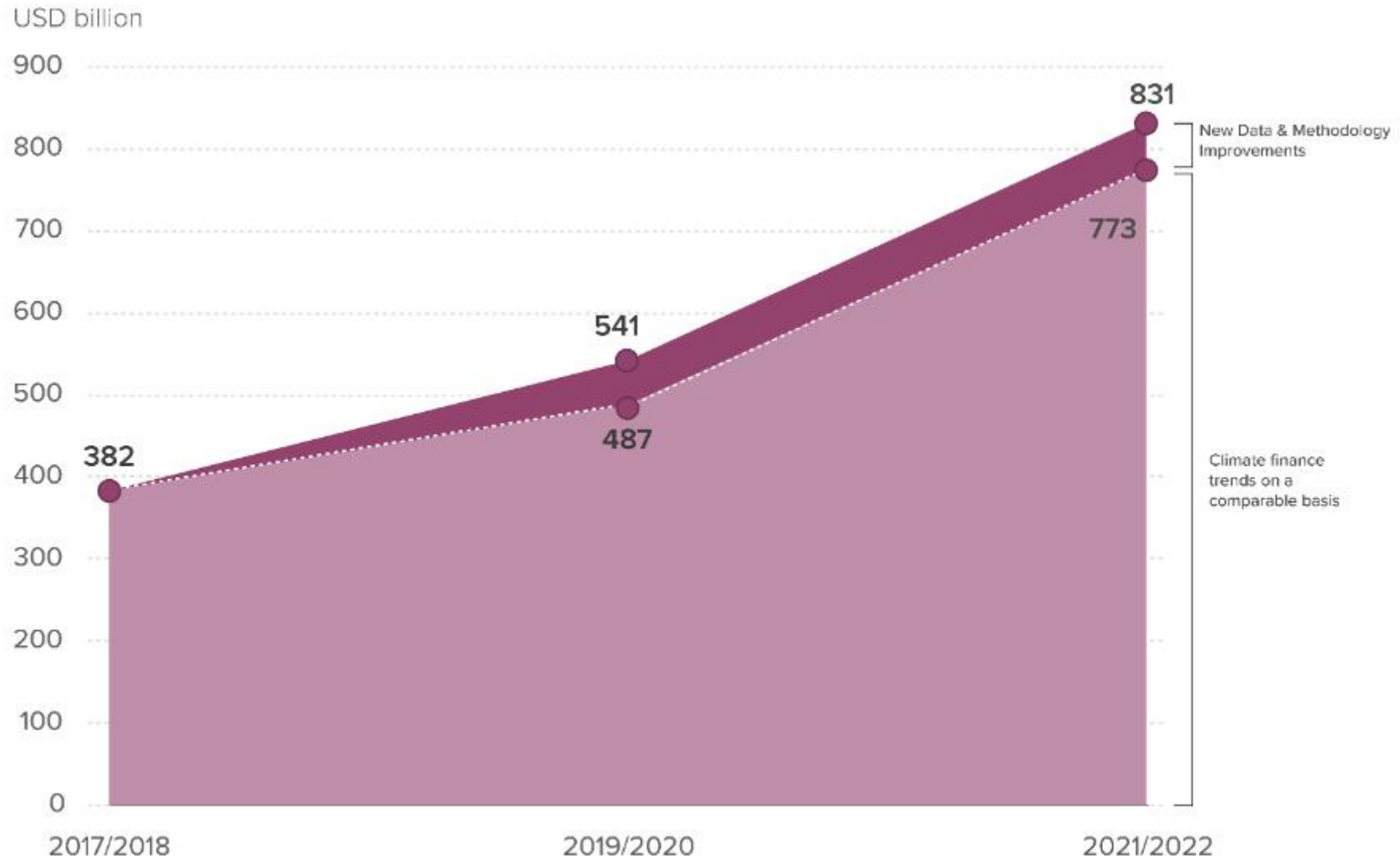
*SOEs* stands for State-Owned Enterprises.
*FIs* stands for Financial Institutions.
*DFIs* stands for Development Finance Institutions.
*Transregional* refers to financing that was tracked for multiple regions.

* Includes waste, agriculture, forestry and other land use, information and communications technology, and industry

**831**

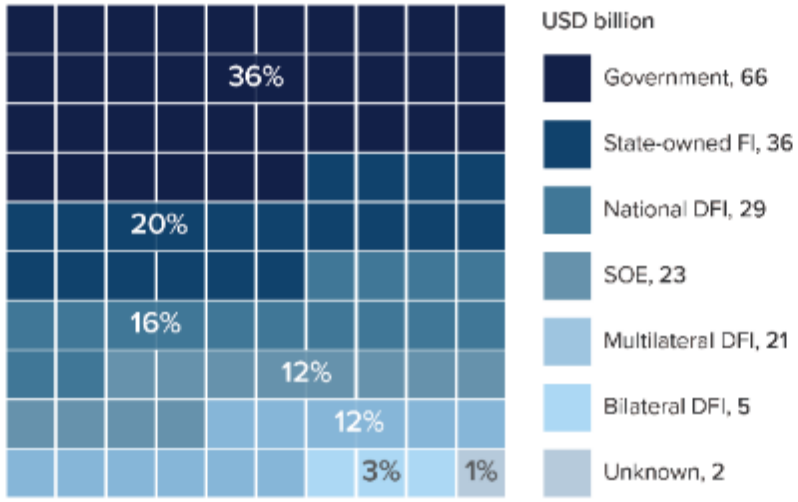
**BILLION USD ANNUAL AVERAGE**

# Tracked urban climate finance has more than doubled since 2017/2018, yet a large gap remains



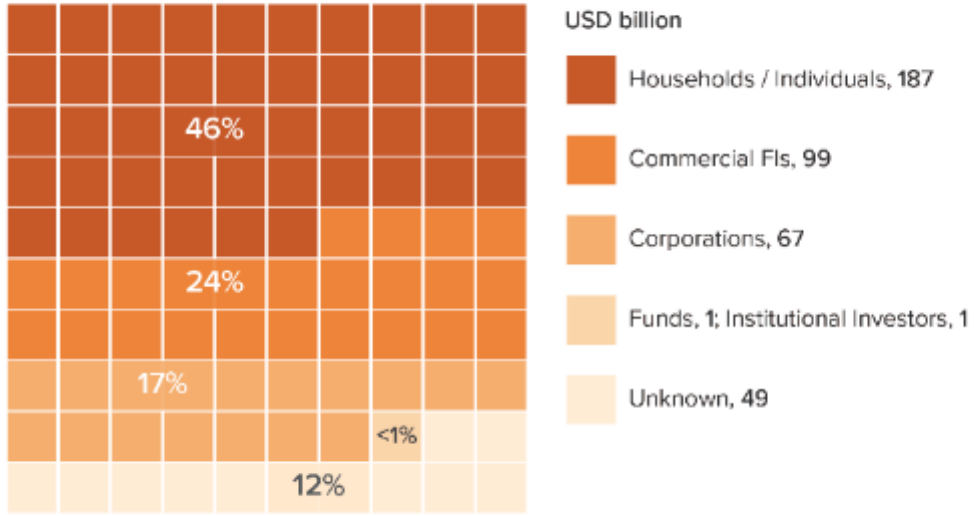
**Private and public actors accounted for 49% and 22% of total urban climate finance, respectively, in 2021/2022.**

## Urban climate finance by public actors in 2021/2022

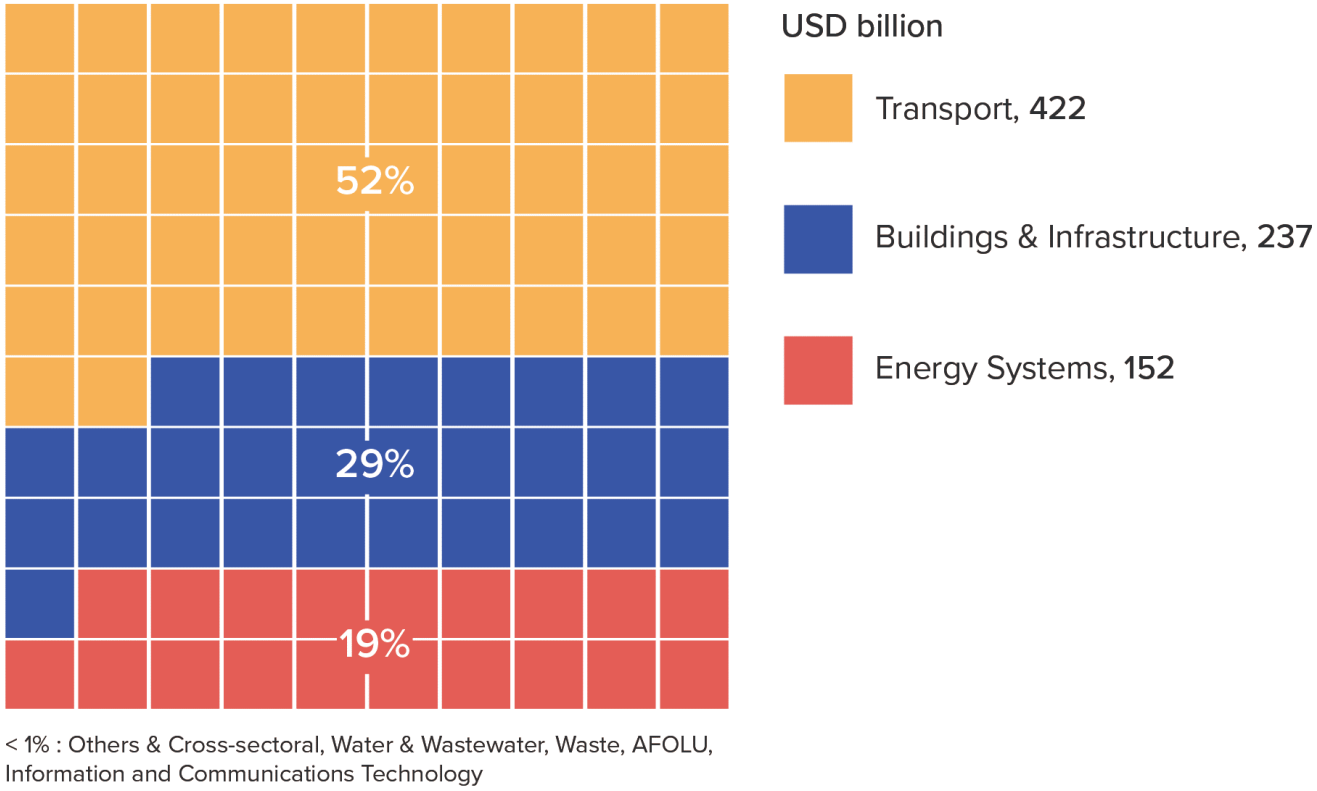



< 1% : Multilateral Climate Funds: **0.03**;
Export Credit Agency (ECA): **0.03**

## Urban climate finance by private actor in 2021/2022

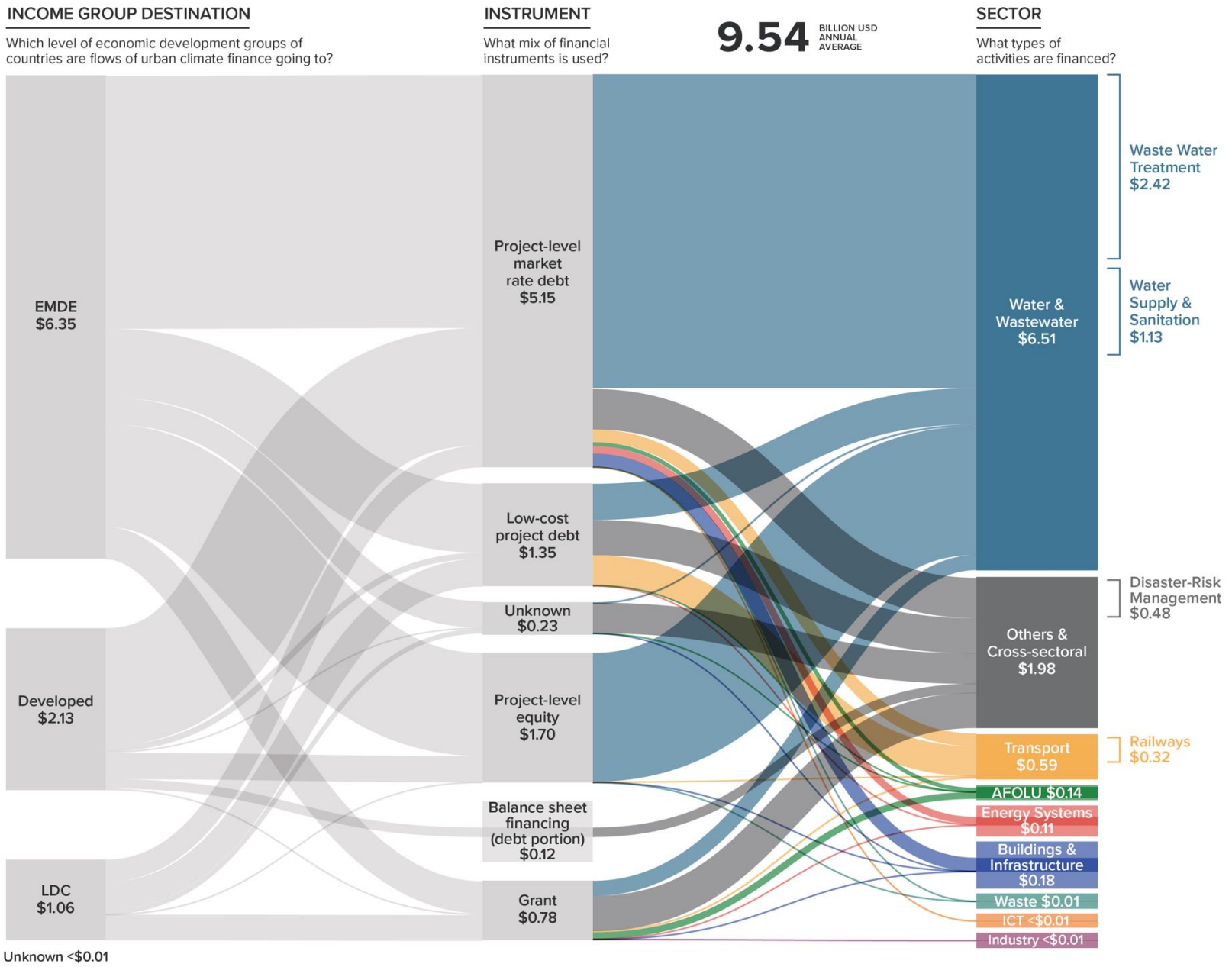


# Mitigation finance more than doubled in 2021/2022. Transport represented 52% of total investments.

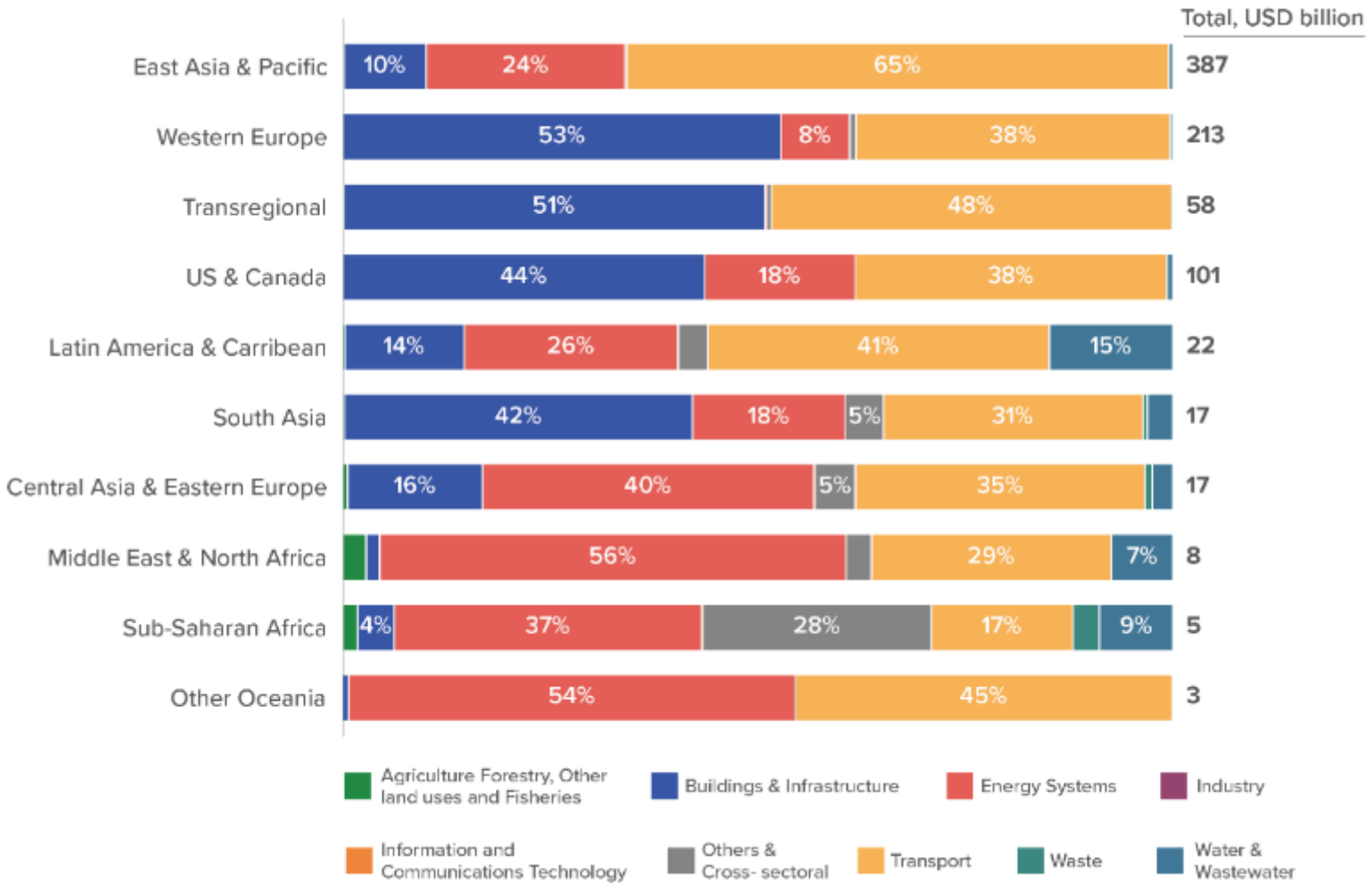



< 1% : Others & Cross-sectoral, Water & Wastewater, Waste, AFOLU, Information and Communications Technology

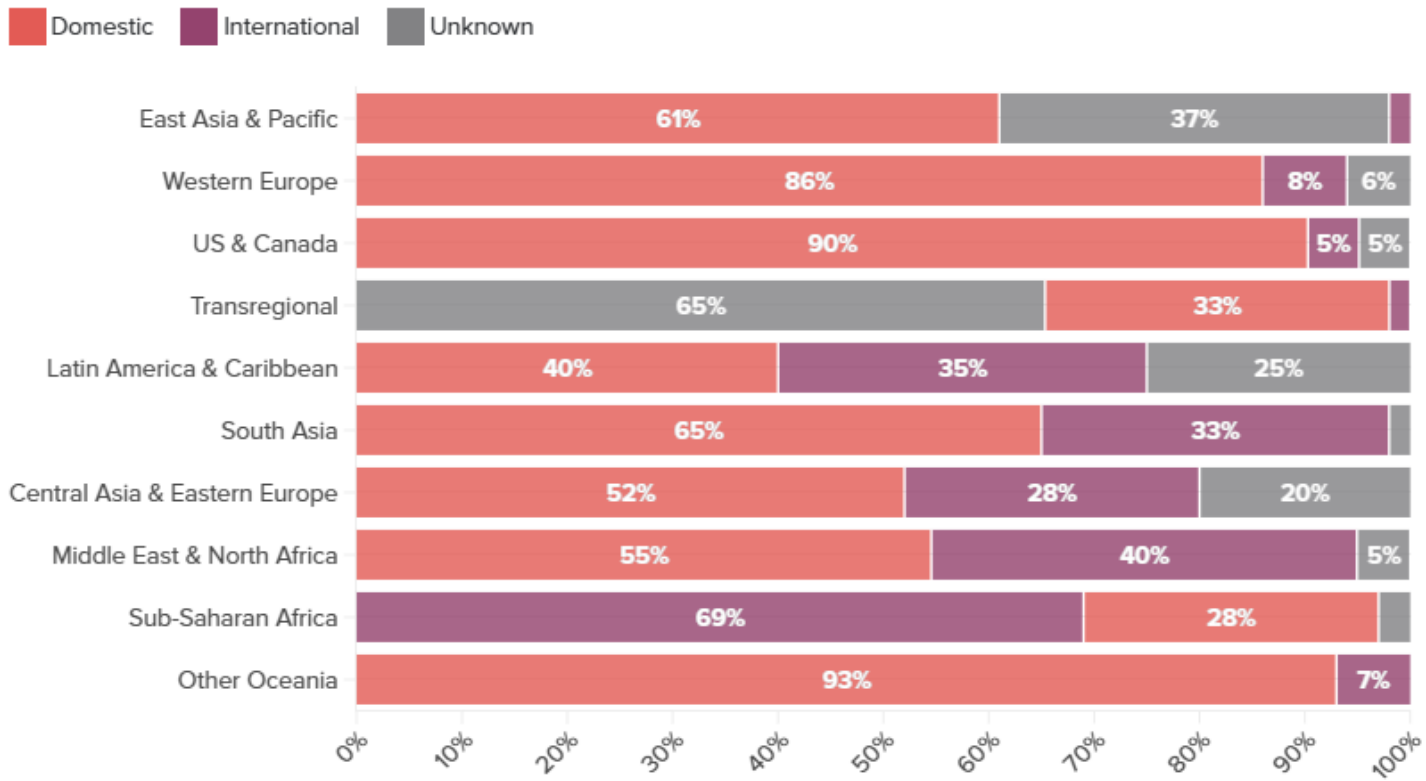
# Tracked urban adaptation finance remains low.



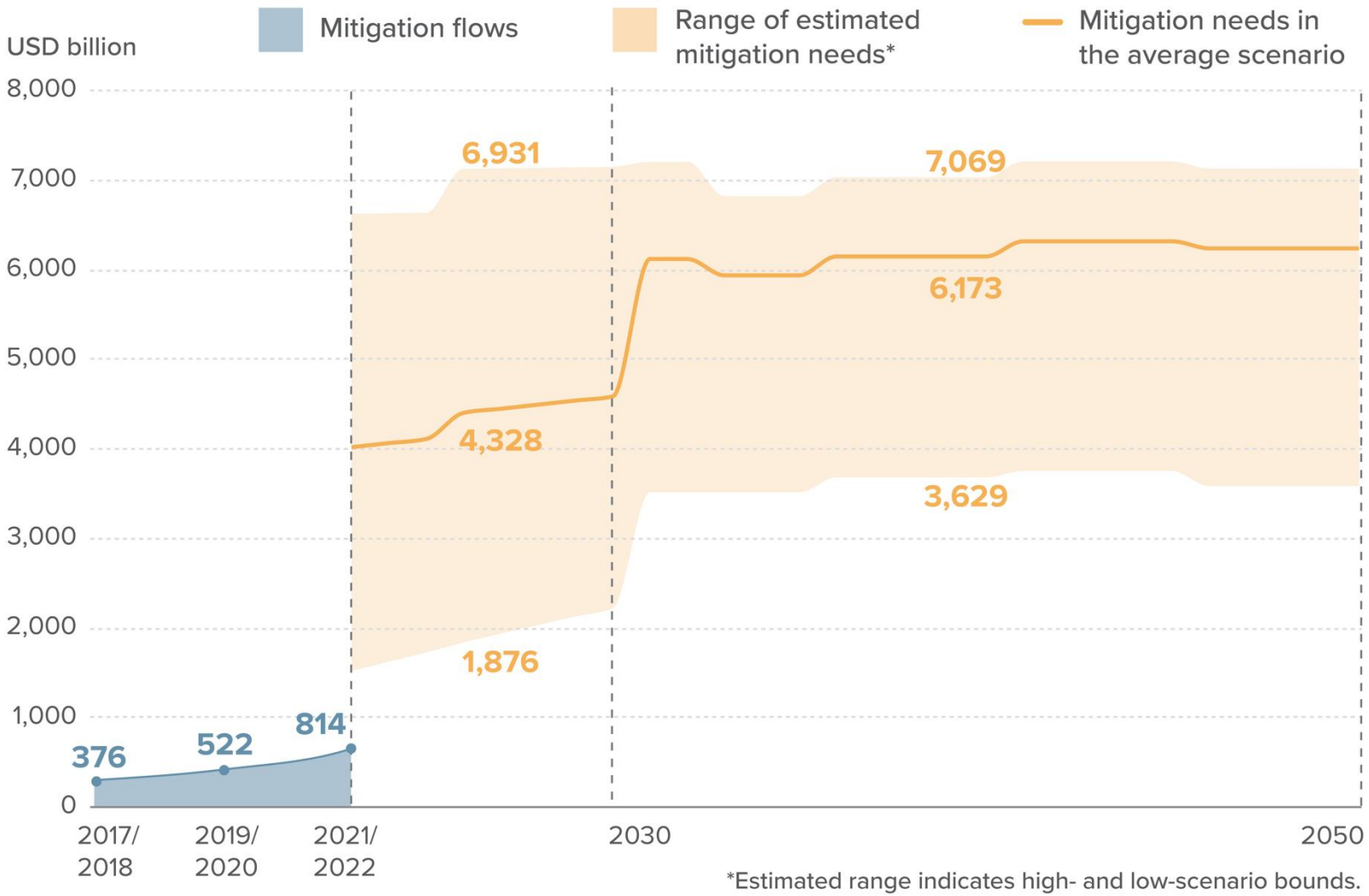
**EMDEs and LDCs received only 11% and 1% of the total urban climate finance, respectively, in 2021/2022.**



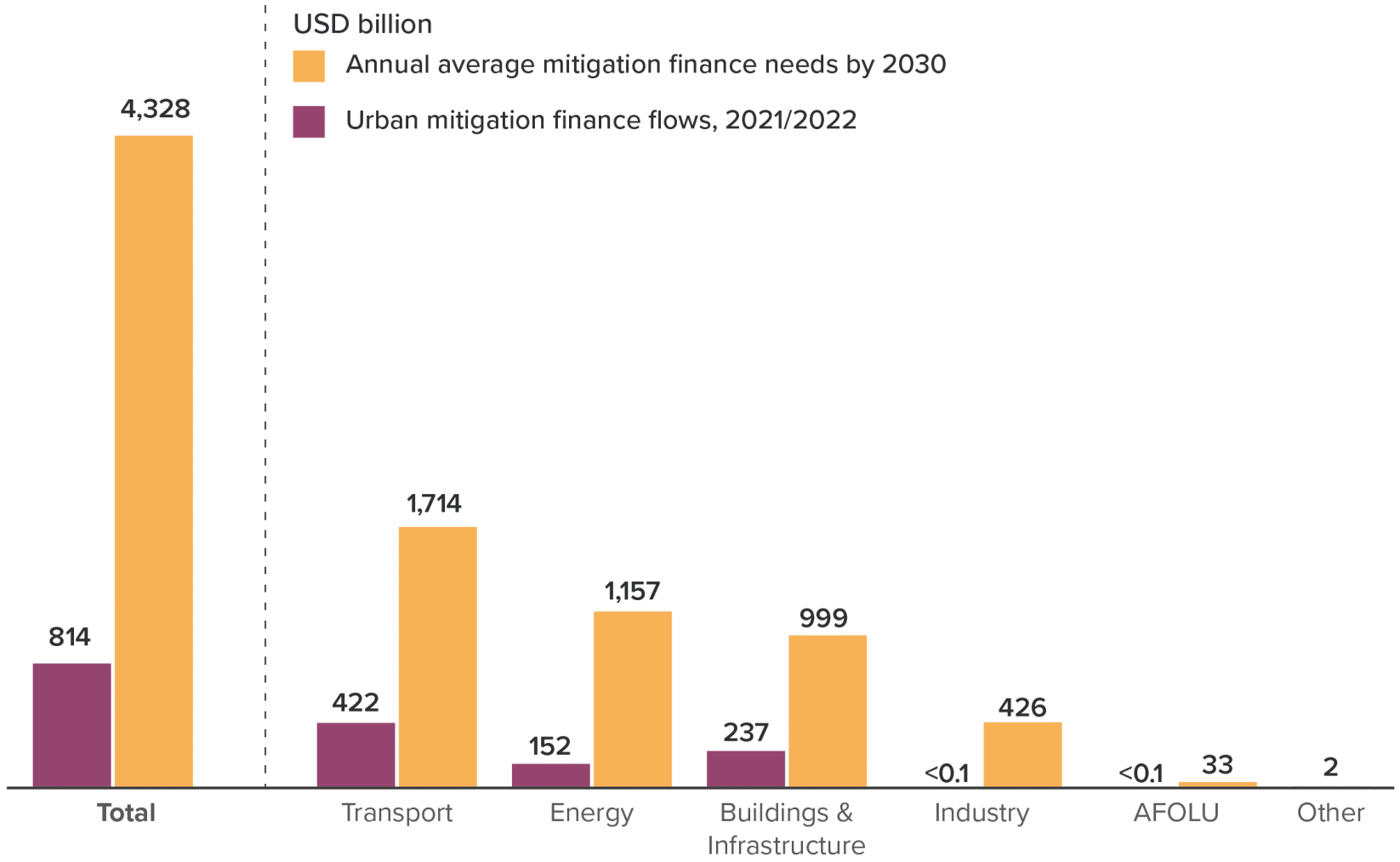
# The majority of urban climate finance was sourced domestically except in Sub-Saharan Africa.



# Cities need USD 4.3 trillion per year by 2030 for mitigation alone and over USD 6 trillion by 2050



# Transport, energy, and buildings dominate cities' mitigation needs



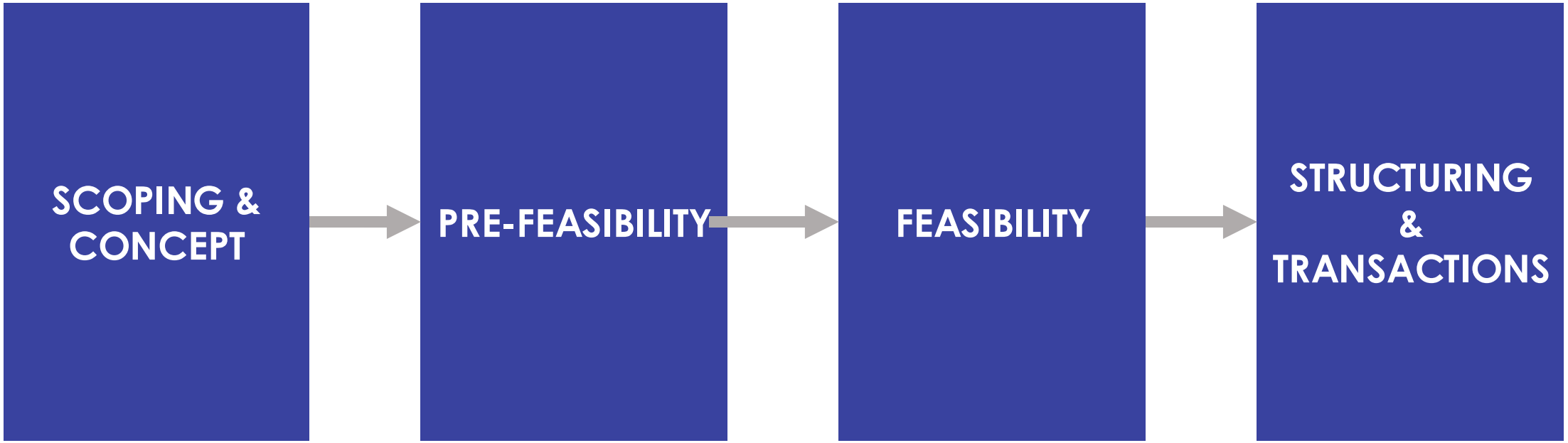
# Urban Climate Finance in Africa

- Only **USD 14 billion** in urban climate finance in Africa in '21/'22, **USD 9 billion to North Africa** and USD 5 Billion to SSA.
- Tracked finance in SSA primarily went to **energy systems** (USD 2 billion), **cross-sectoral projects** (USD 2 billion), and **transport** (USD 1 billion).
- **69% international finance** in SSA, in contrast to all other regions where the majority was domestic.
- **Less than USD 1 billion per year of Adaptation finance** is in Africa, despite cities having over 500 million in water projects alone

# Closing the Gap: Project Preparation for Urban Climate Investments

# Project Preparation Facilities

Facilities that supporting cities in developing bankable, investment-ready projects, from the project scoping stage up to the financial close.



# How do PPFs support cities?

**85%** of PPFs provide **technical assistance**

**35%** of PPFs provide **grants**

**25%** of PPFs also provide **financing**

# When do PPFs support cities?

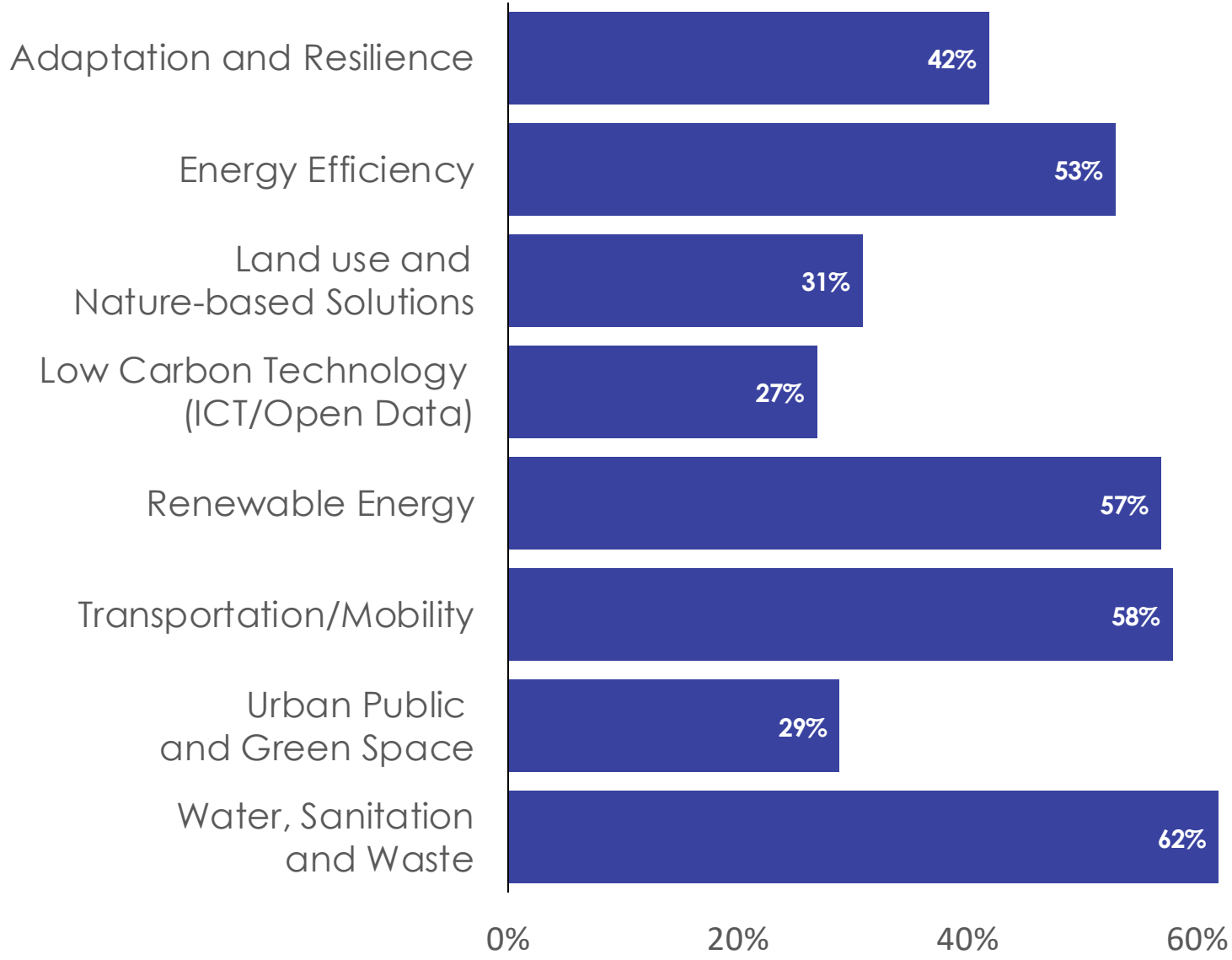
**42%** of PPFs support the **concept & scoping** stage

**41%** of PPFs support the **pre-feasibility** stage

**51%** of PPFs support the **feasibility** stage

**39%** support the **structuring & transactions** stage

# What Sectors do PPFs support?

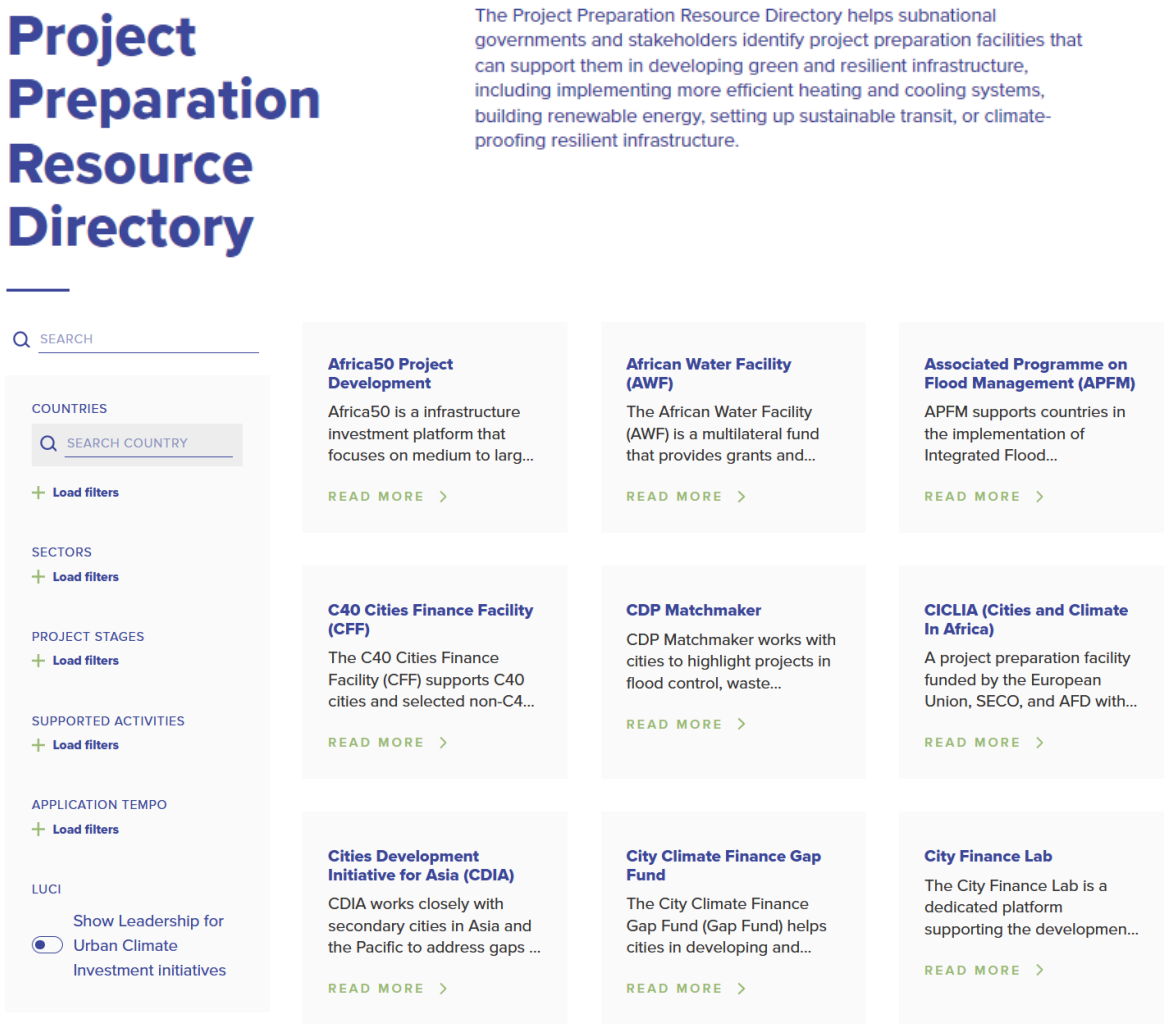


CITIES CLIMATE FINANCE LEADERSHIP ALLIANCE

# Project Preparation Resource Directory

An open, online, **global directory of PPFs** that help city networks and project sponsors find project preparation support

View the **Project Preparation Resource Directory**



CITIES CLIMATE FINANCE LEADERSHIP ALLIANCE

CLIMATE POLICY INITIATIVE

# Thank you!

## Contact

citiesclimatefinance.org

@cityclimfin

@citiesclimfinleadershipalliance

# Panel discussion: a funders' dialogue for African cities

*Speaker*

**Trevino Forbes**
Mayor of Walvis Bay, Namibia

*Speaker*

**Bjorn Wallsten**
Senior Research Officer at Formas, Transition Pathway Coordinator in the Driving Urban Transitions Partnership

*Speaker*

**Lea Ranalder**
Associate Programme Management Officer, Human Settlements at UN-Habitat

*Speaker*

**Marwa Alaa El-Din**
Research Programs Department Manager Science, Technology and Innovation Funding Authority, Egypt

*Speaker*

**Shaden Al Galalay**
City Advisor for MENA, GCoM Gap Fund Support Team

*Speaker*

**Léonard Leveque**
LEAP-RE coordinator, LGI

*Speaker*

**Olle Dierks**
Head of large-scale investments, Chairman of Team Sweden Smart Cities, Viable Cities

City Climate Finance Gap Fund

IN PARTNERSHIP WITH

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

# Bridging the Gap - Unlocking Finance for Local Climate Projects

November 5, 2024 | 13:00 - 14:30

# Empowering Cities: Unlocking Climate Finance Potential

## Vast Investment Opportunities

- $90 trillion in climate investments needed by 2030
- Creates $4.5 trillion market for project preparation
- Translates to $300 billion annually in preparation costs

*(Source: Cities Climate Finance Leadership Alliance, 2021)*

## Early-Stage Support: Key to Success

- Project preparation typically 3-5% of total costs
- Rises to 10% in emerging markets, indicating growth potential
- Early-stage support crucial for project viability

*(Source: World Bank, Urban Development Series, 2018)*

# The City Climate Finance Gap Fund

City Climate
Finance Gap Fund

EUROCITIES

THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP

European Investment Bank

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Federal Ministry for Economic Cooperation and Development

Federal Ministry for Economic Affairs and Climate Action

THE GOVERNMENT OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of the Environment, Climate and Sustainable Development

C40 CITIES

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

ICLEI Local Governments for Sustainability

CITIES CLIMATE FINANCE LEADERSHIP ALLIANCE

# The GCoM-Gap Fund Partnership

- Raising awareness about the Gap Fund opportunity for cities
- Direct assistance to help cities develop quality project proposals
- Workshops, tools and knowledge sharing on emissions, resilience analysis

**GCoM and the Gap Fund serve as a bridge between local governments and climate finance opportunities**

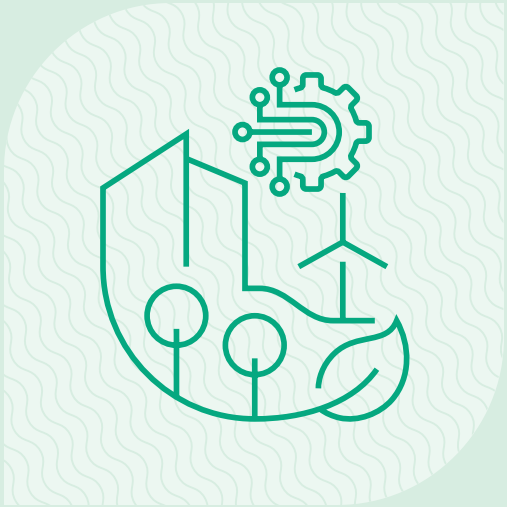
www.globalcovenantofmayors.org/gap-fund

City Climate Finance Gap Fund

IN PARTNERSHIP WITH

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

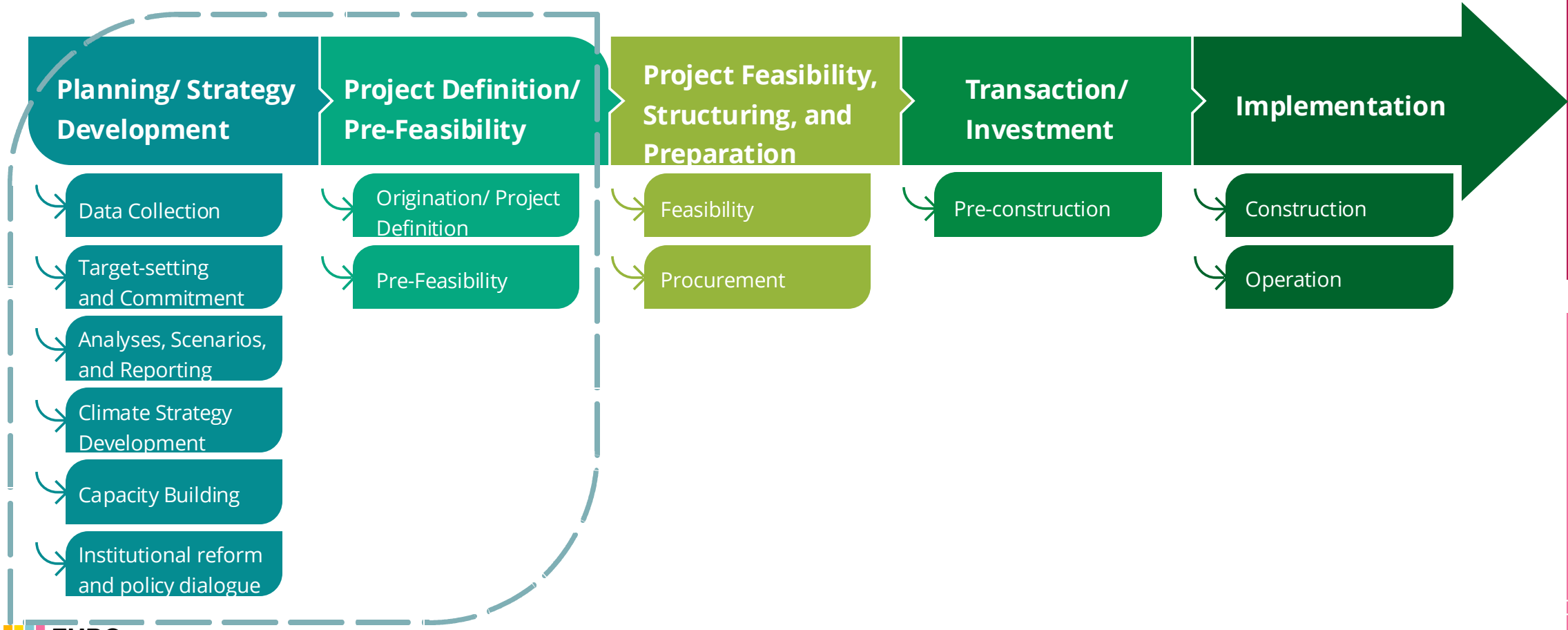
# Gap Fund Support Services



**The initiative provides pivotal support for cities to advance to later stages of project preparation.**

- Supports a range of activities from climate strategy development to pre-feasibility studies
- Assessment of the climate potential of actions, plans, strategies, and investment programs
- Supporting the prioritization of investments
- Project concept design and definition
- Supporting the appropriate financial structuring for your project-idea
- Guidance on financing mechanisms and investment facilitation
- Connecting cities to additional technical/ financial support sources

# A Focus on Early-stage Project Preparation Support




EUROCITIES

# Eligibility Criteria

## OECD Eligibility

Projects must be from countries eligible for OECD development assistance.

## Ownership

Proposals must demonstrate local government ownership and commitment. Local governments, municipal agencies, development banks for municipal investment can apply. Proposals can be submitted by entities representing groups of municipalities.

## Climate Focus

Impact on lowering emissions or adaptation to climate change.

## Urban Focus

Projects should be situated in urban areas. No constraints on city size, but should have sizable climate impact potential.

EUROCITIES

# Eligible Sectors

- Sustainable urban mobility
- Energy efficiency and renewables, retrofits, street lighting, district heating and cooling
- Solid waste management and circular economy

- Water and wastewater management
- Greening of urban areas, NBS, blue/green infrastructure, ecosystem restoration
- Infrastructure for adaptation and reducing climate risks and vulnerabilities
- Multisector, area-based investment programs: transforming urban areas with a multisector approach

**Overall, we are looking for transformational, cross-sectorial, high-impact projects.**

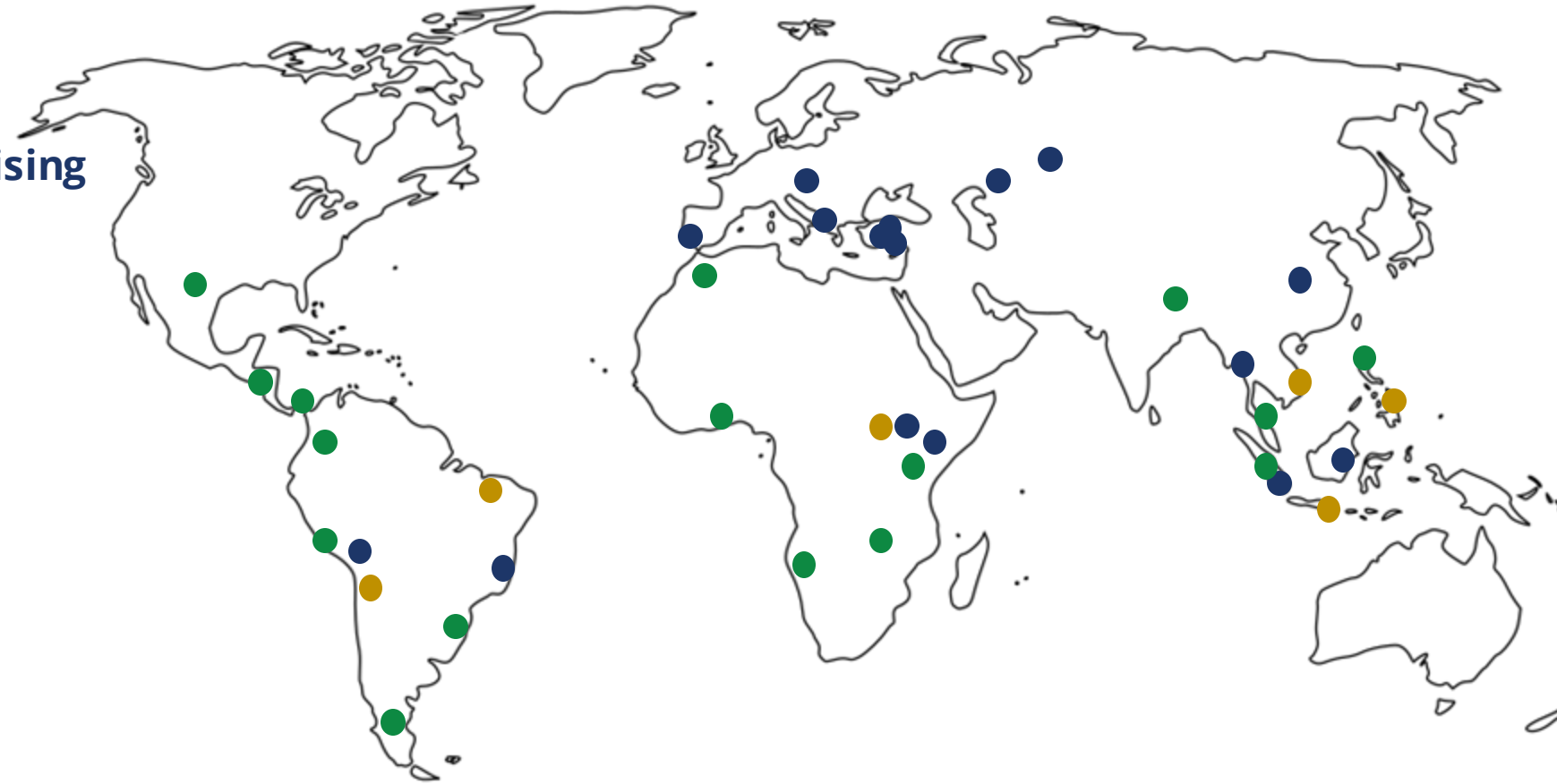
# Between May and October 2024, GCoM-Gap Fund delivered

**71** **Awareness Raising events**

reaching **1109** cities* in **91** countries with **3705** participants

**65** **Hands on Workshops**

engaging **729** cities*, in **46** countries with **1765** participants



*This number accounts for all cities that have taken part in each event, meaning some cities may appear in multiple events.

# From project ideas to EoI Gap Fund


**228 Project ideas**

**175 Ongoing**

**53 Sent EoIs**

**Main sectors:** adaptation, energy efficiency, greening urban areas, multisector, and solid waste management

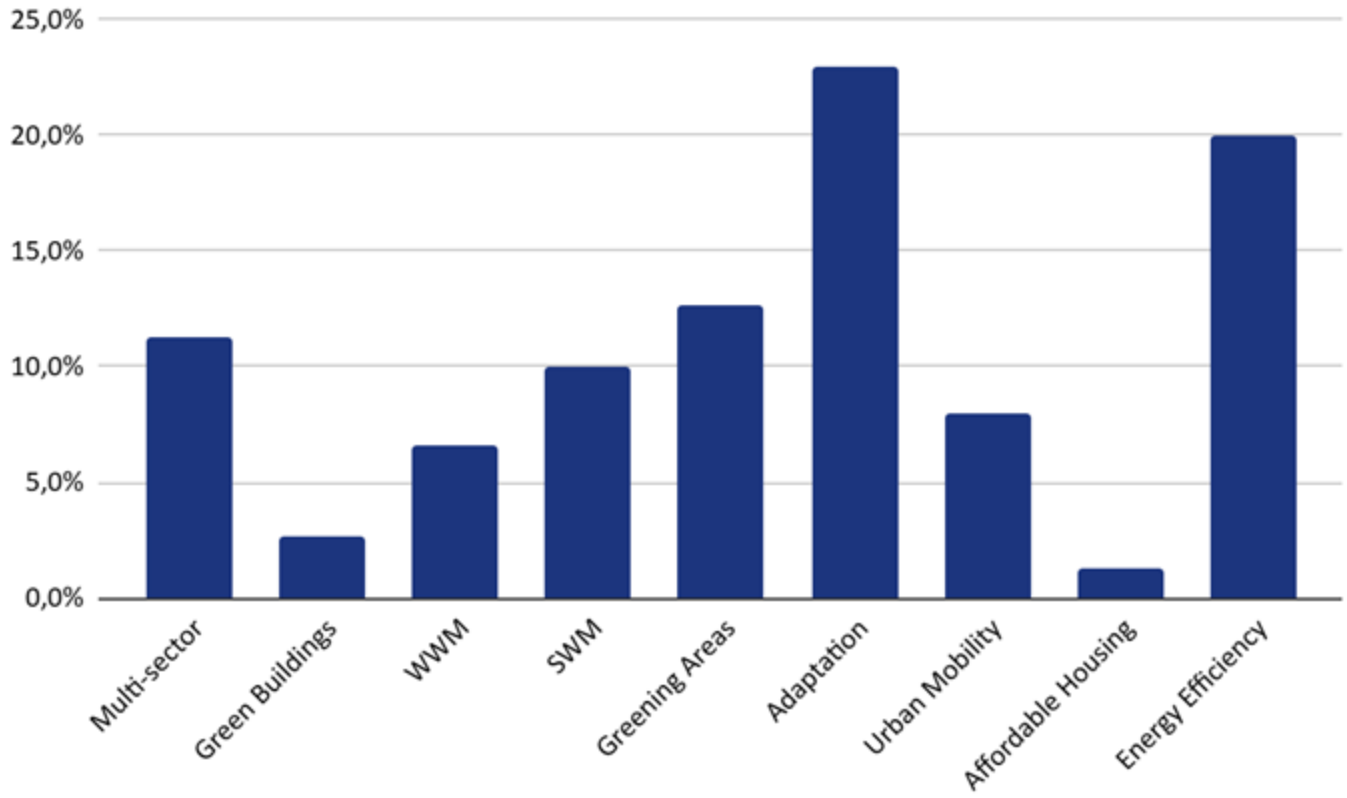
EURO

*Ideas from May 2023 - October 2024

# Project ideas - sector approach: global overview

**36%** Adaptation - NbS - Greening of urban areas

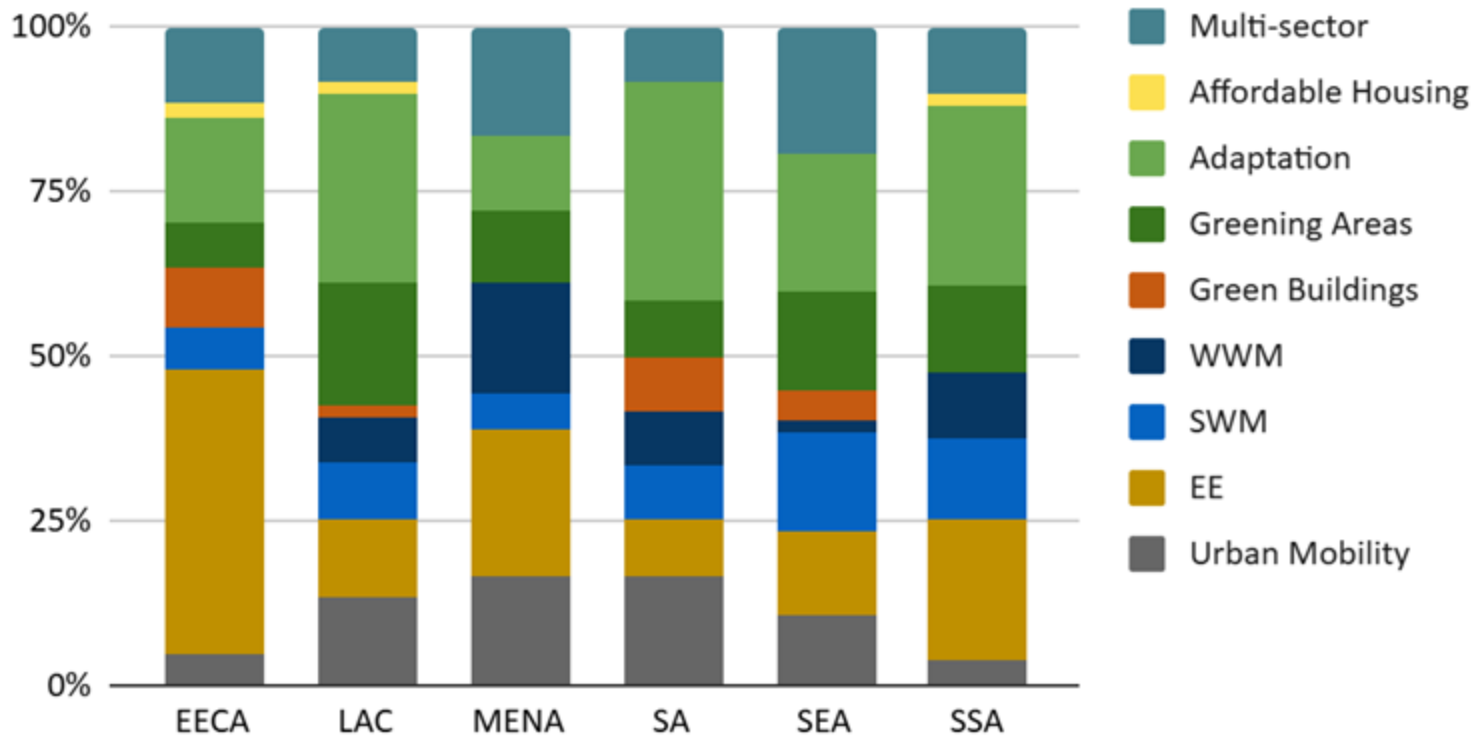
**24%** Energy efficiency - Green buildings - Affordable housing




EURO

*Ideas from May 2023 - October 2024

# Project ideas - sector approach: regional overview




*Ideas from May 2023 - October 2024

# Supporting the completion of the urban stormwater management plan in Mbombela, South Africa

## Mbombela, South Africa

The city wants to enhance climate resilience by implementing a comprehensive stormwater management system, flood protection measures, and Nature-based Solutions (NbS), ultimately safeguarding water quality and availability while promoting sustainable urban development.

### Gap Fund support

- Pre-feasibility study for stormwater management
- Scaling up and integrating citywide riverine management and stormwater initiatives

**Supported by WB SSA Region**

EURO CITIES

# Integrating nature-based solutions in Abidjan's drainage Masterplan, Cote d'Ivoire

## Abidjan, Cote d'Ivoire

### Gap Fund support

• Integration of NBS into Abidjan drainage master plan and specific investments in urban drainage.

- (i) the identification of NBS opportunities;
- (ii) the provision of technical recommendations on the types of NBS to be prioritized, cobenefits of the different types of NBS, and
- (iii) locations for implementation.

Furthermore, it supports the identification of potential NBS to deliver the activities mapped in the drainage masterplan and the development of prefeasibility studies for priority NBS interventions. Additionally, this grant enhances the capacity of city officials by providing training on integrating NBS into urban infrastructure and their maintenance.

**Supported by WB**

EURO CITIES

# Identification and prioritization of investments in nature-based solutions (NBS) in Kinshasa, DRC

## Kinshasa, DRC

### Project Overview

- Mapping of natural assets and identification of potential NbS locations in Kinshasa
- Selection, costing and prioritization of NbS interventions per potential location
- Development of a NbS strategy
- Piloting of NbS strategy recommendations at project scale for erosion control investment in Kin Elenda basin

EURO CITIES

Supported by WB

# Sustainable Waste Management and Greening project in Uganda

EiB

## Project Overview

- Conduct a comprehensive analysis of various municipal organic waste treatment methods, considering their technical, economic, financial, social, environmental, and climate impacts.
- Establish a collaborative framework for working together on organic waste recovery  between Makindye-Ssabagabo, Nansana, Kira, and Entebbe municipalities
- Ensure informed and evidence-based decision-making

## Project Impact

- Increased knowledge for informed decision-making.
- Improved waste recovery practices.
- Enhanced collaboration and coordination.

## Next Steps

- Conduct feasibility studies for selected treatment options.
- Engage with key stakeholder for input and involvement.

# Application Process

Simple application process. Submissions are accepted on a rolling basis.

The Expression of Interest (EOI) is submitted online at www.citygapfund.org/apply-for-support

Share your idea with the GCoM-Gap Fund team, we'll help you make it stronger. Describe the project idea focusing on the climate impact it would bring.

EOIs are evaluated based on climate benefits, replicability, alignment with goals, aggregation potential, handover potential, Alignment with National policies.

**Clearly state the technical assistance that the project needs.**
**Explain what social, economic, and environmental impacts it will bring.**
**Also, consider if your project is replicable and aligned with local and national policies.**
**Would other cities be interested in joining your request? Who could bring investment or financing to implement this project?**

EUROCITIES

# Thank You!

City Climate Finance Gap Fund

IN PARTNERSHIP WITH

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

info@gcomprojectsupport.org

13:00 - 13:15

# Q&A

# Closing

*Speaker*

**Karel Van Oordt**
UTMC partner,
Project Coordinator Eurocities

*Speaker*

**Elli B. Tzatzanis-Stepanovic**
UTMC Project Coordinator,
Senior Project Manager, FFG

Funded by
the European Union

13:15 - 14:15

# Lunch Break

**Next → Session 4: International collaboration: Exploring Strategic Urban Development Initiatives -** Initiatives and contributions to sustainable African cities

Funded by the European Union

14:15 - 16:00

# Session 4:

## International collaboration: Exploring Strategic Urban Development Initiatives - Initiatives and contributions to sustainable African cities

Funded by the European Union

# International collaboration: Exploring Strategic Urban Development Initiatives - Initiatives and contributions to sustainable African cities

*Speaker*

**Amany El-Sharif**
Vice president Pan African University, Coordinator of the North African Regional Office of the Association of African Universities, AU

*Speaker*

**Kanak Gokarn**
Sustainable Energy Policy Officer, ICLEI World Secretariat

*Speaker*

**Artur Serra**
Deputy Director i2CAT, ENoLL

*Speaker*

**Dahlia Sabri**
International Water Resources Association, IWRA International Water Resources Association, IWRA

*Speaker*

**Temitope Sogbanmu**
Consultant and Trainer, SDG Advocate, University of Lagos

i2cat

European Network of Living Labs

The Internet Research Centre

# Deploying living labs for a joint urban-rural transition in Senegal

*Artur Serra,*
*Deputy Director, i2cat*
**ENoLL.**

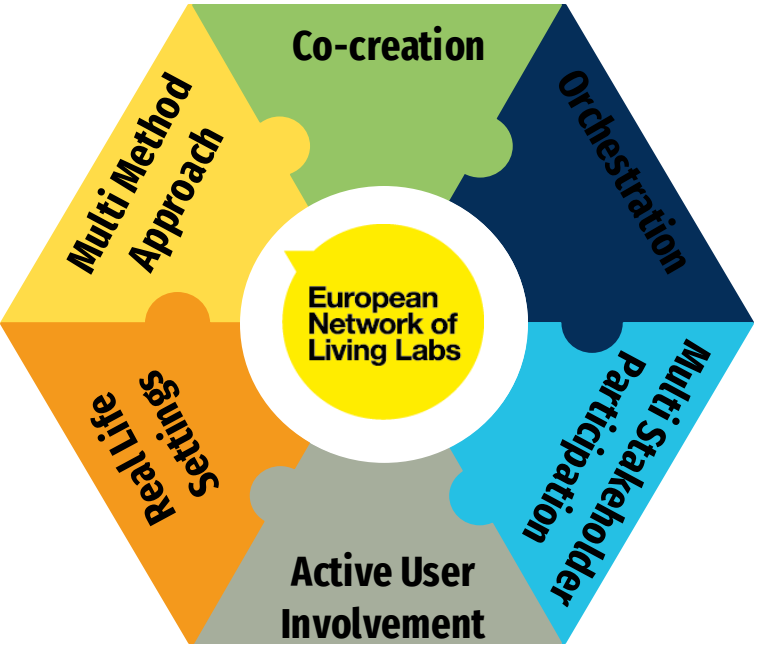
UTMC Conference at World Urban Forum.
Cairo November 7th th, 2024.

CERCA Centres de Recerca de Catalunya

tecnio catalonia | ACCIÓ Generalitat de Catalunya

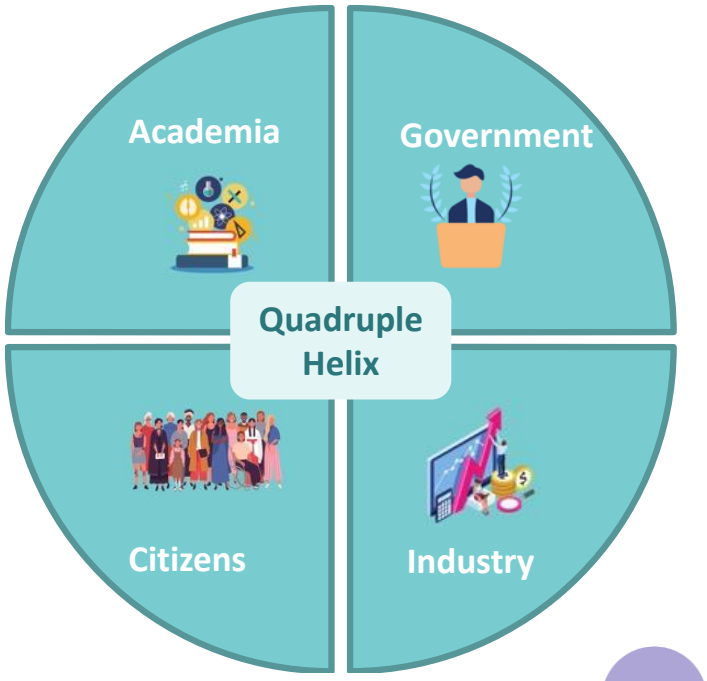
# What are Living Labs?

Living Labs are **open innovation ecosystems** in **real-life environments** based on a **systematic user co-creation approach** that integrates research and innovation activities in communities, placing **citizens at the centre of innovation**



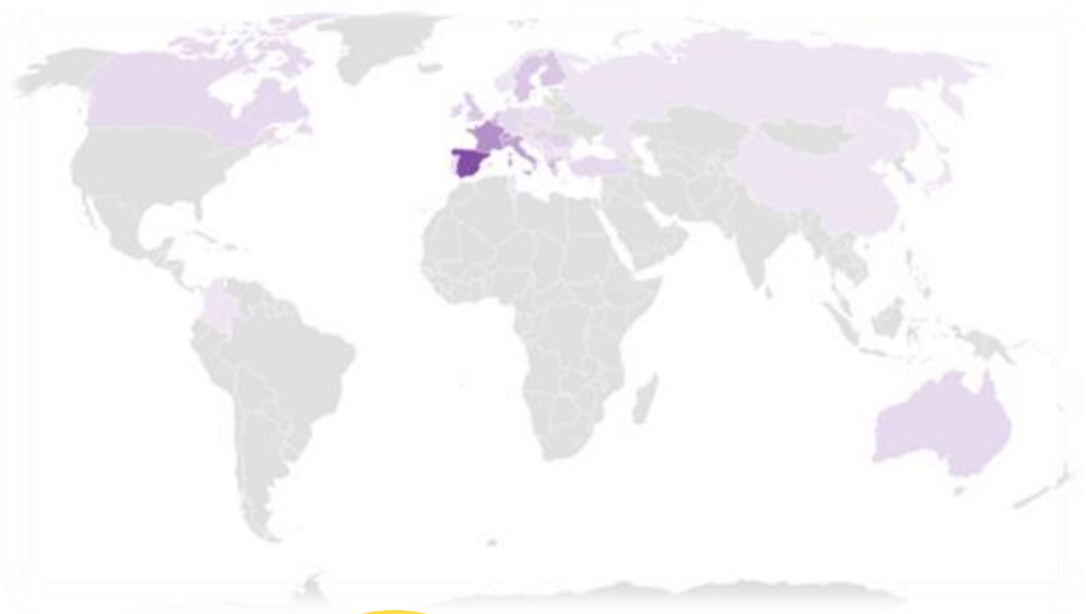

Living Labs operate as **intermediaries** among **citizens, research organisations, companies and government** agencies or levels for joint-value co-creation, rapid prototyping or to scale up innovation and businesses.

They are open innovation ecosystems in **real-life** environments using **iterative feedback processes** throughout the lifecycle approach of an innovation



# ENoLL

**ENoLL is the international non-profit association of certified Living Labs**



- Founded in 2006 under the auspices of the Finnish European Presidency
- ENoLL focuses on facilitating knowledge exchange, joint actions and project partnerships among its members
- Its aim is to **promote** the Living Labs concept, **support EU policies, enhance Living Labs and their sustainability** and **enable their implementation at a global level.**
- ENoLL growing community includes members that operate by the main living lab principles such as **multi-stakeholder co-creation, iterative active user involvement** and **real-life intervention.**

**+500 historically certified living labs**

**5 continents 38 countries**

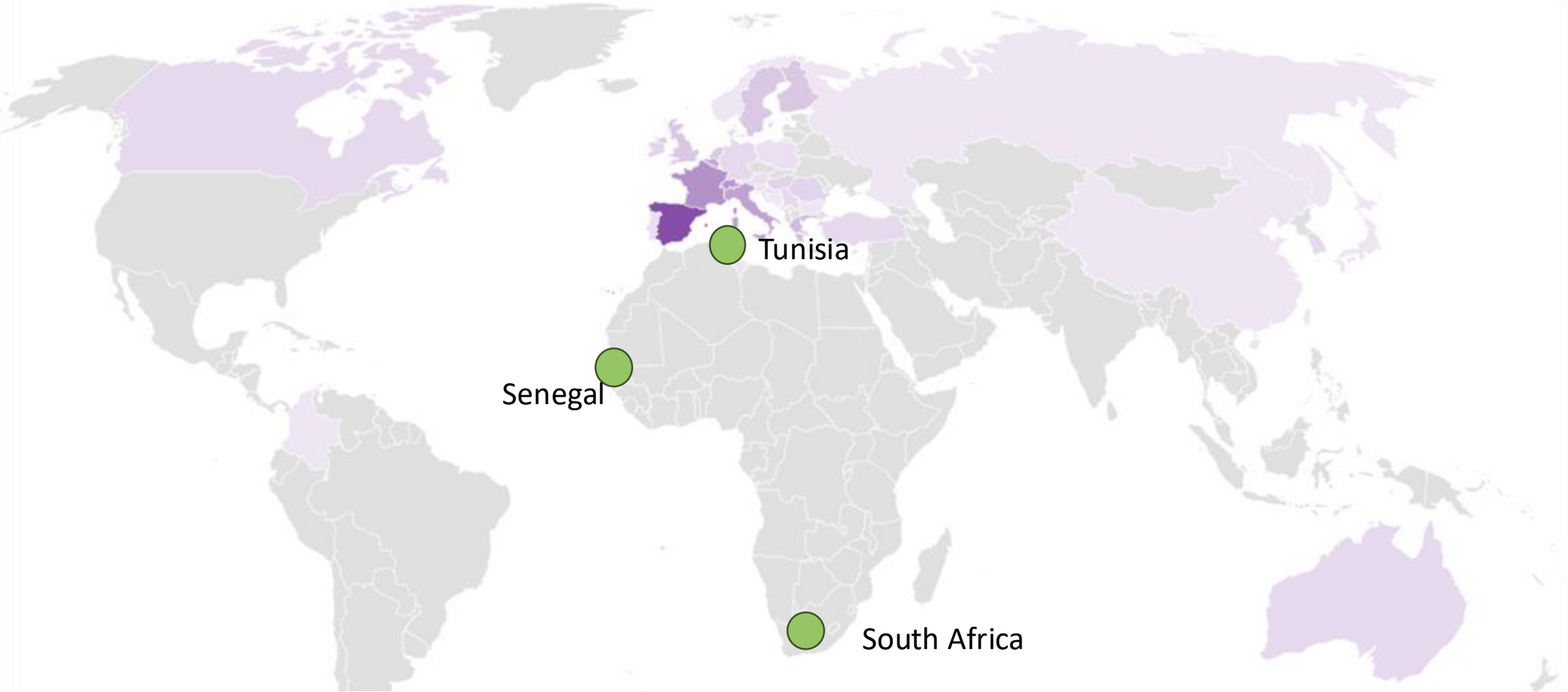
**~ 165 active members** (89% in Europe) and in mainly in urban areas

Active in **20+ EU-funded projects** to support LL creation and strengthen the impact of LL


SOILL STARTUP
PREP SOIL
NATIOONS
ALL Ready

European Network of Living Labs

# Living Labs in Africa: changing the approach



**Ndeye Fatou Ndiaye Diop-Blondin**
**Coordonatrice FDSUT.**

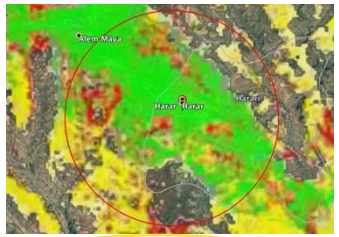
Attached to Senegalese Government
Via the Ministry of **Digital Economy & Telecommunications**

# FDSUT

**F**onds de **D**éveloppement du **S**ervice **U**niversel des **T**élécommunications

**0,75%**
of operators sales revenues contributes to FDSUT

**02** main axes



**Network cover**
*Universal Access*

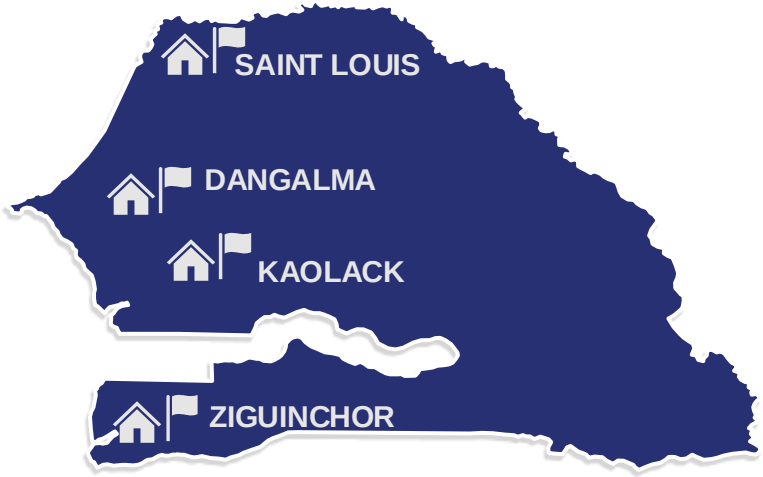
**Usages development**
*Universal Service*

**2014**
**Operational** and administrated by the regulator

**2019**
The Fund became **autonomous** and has an **operational unit** further than its steering committee

Our missions and organisation are defined by the **decree n° 2019-593 of 2019/2/14 relating to universal Acces/Service**

# 04 LIVING LABS LAUNCHED FOR A PILOT PHASE OF 03 YEARS




LIVING LAB
SENEGAL

- In **Rural areas**
- In **Primary sector**

**2021**
Launch of the project

**2022**
Two operational LIVING LAB

**2023**
Two others operational LIVING LAB

**2024**
Evaluation & replication

## 03 GOALS

To achieve population digital inclusion
LL SN will be **an open place with digital tools & basics training or sensibilisation sessions**

To democratize the Innovation
LL SN methodology will be deployed and will create a **fertile ecosystem with heterogeneous profiles**

To catalyse local development
LL SN will create a place where all local actors can meet and identify synergies

## 1,6 M€

Planned for 3 years

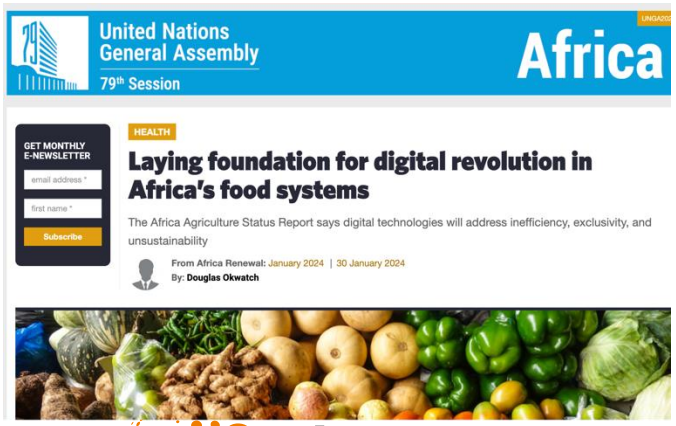
- 43% LL installation & management
- 17% Training & sensibilisation
- 11% Scientific expertise

FDSUT

# WHY LIVING LABS IN RURAL AREAS AND THE PRIMARY SECTOR?

A NATIONAL GOAL: **FOOD SOVEREINGTY.**

. CANNOT BE ACHIEVED BY CITIES AND URBAN AREAS ALONE

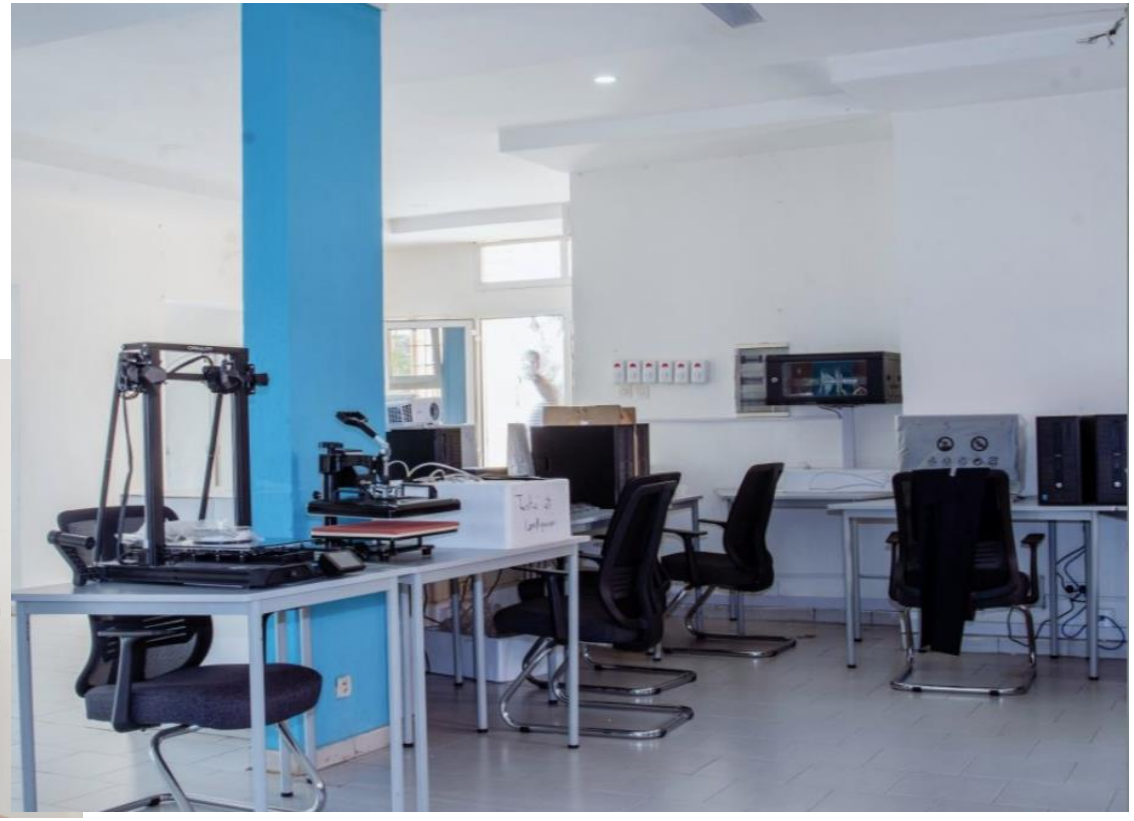



THE NATION NEEDS AN ADVANCED AGROPASTORAL SYSTEM IN RURAL AREAS SUPPORTED BY ICT

FDSUT PROMOTES A COMMUNITY-BASED INNOVATION ECOSYSTEM BASED ON LLs.

## DANGALMA LIVING LAB (REGION DIOURBEL)


Inaugurée 21 juillet, 2023



DANGALMA
TRANSFORMATION FRUITS ,LÉGUMES, CÉRÉALES
Soutenons les femmes transformatrices de [Dangalma, Diourbel, Senegal](#) [#entrepreneuriat](#) [#transformation](#) …


https://www.facebook.com/groups/dangalma

# Liste des projets sélectionnés au niveau des living lab de Dangalma et Kaolack

| Structure | Projet | Descriptif |
|---|---|---|
| **Living lab Dangalma** | | |
| Université de Bambey (UADB) | **Plateforme web et mobile pour la commercialisation des produits agricoles** | Elle permet de faciliter l'accès aux marchés pour les agriculteurs, réduire les intermédiaires et augmenter les revenus des agriculteurs et améliorer la transparence des prix et la qualité des produits. La plateforme est accessible aux agriculteurs et aux acheteurs pour la vente directe de produits agricoles, en s'appuyant sur les formations en Développement Web et Statistiques et Informatique décisionnelle. |
| | **Application mobile pour la gestion du cheptel** | L'application permet aux éleveurs de suivre la santé, la reproduction et la production de leurs animaux, en s'appuyant sur les formations en Développement Web et Développement durable, mais aussi en production animale (ISFAR). La plateforme permet d'améliorer la santé et la productivité du cheptel, réduire les pertes animales et améliorer la qualité des produits d'élevage et enfin promouvoir des pratiques d'élevage durables. |
| | **Laboratoire mobile d'analyses des sols** | Le laboratoire permet de vérifier la fertilité des sols et la productivité agricole afin de réduire l'utilisation des engrais chimiques et préserver l'environnement. L'objectif étant de fournir aux agriculteurs des conseils, d'améliorer la fertilité des sols et la productivité agricole, de réduire l'utilisation des engrais chimiques et préserver l'environnement. |
| | **Plateforme de formation en ligne pour les agriculteurs** | Elle propose des modules de formation aux agriculteurs sur des thématiques variées (techniques agricoles, gestion d'exploitation, marketing, etc.), en s'appuyant sur les formations en santé communautaire et développement durable. L'objectif étant de renforcer les capacités des agriculteurs et améliorer leurs connaissances techniques, favoriser l'adoption de pratiques agricoles durables et respectueuses de l'environnement et améliorer la santé et la sécurité des agriculteurs et des consommateurs. |
| | **Système d'irrigation intelligent** | Le système d'irrigation utilise des capteurs et des panneaux solaires pour optimiser l'utilisation de l'eau et de l'énergie, en s'appuyant sur les formations en maintenance réseaux et physique chimie. Il vise l'augmentation de la production agricole et la résilience au changement climatique en réduisant la consommation d'eau et d'énergie Améliorer la gestion des ressources naturelles. |

## KAOLACK LIVING LAB.


Inaugurée
30 abril 2023

| Living lab Kaolack | | |
|---|---|---|
| Université de Kaolack (USSEIN) | **Agricole 2.0** | Agricole 2.0 est une conception d'une serre low-cost avec des matériaux de récupération pour créer un environnement propice à la culture et la protection des plantes.<br>La gestion des serres obéie au étapes suivantes : Le projet consiste à faire l'installation de systèmes d'irrigation agricole automatisé avec plateforme de monitoring et d'administration, la création d'un système hydroponique ou hors-sol pour la récupération des terres, l'installation de matériel électronique pour le contrôle des paramètres agro climatiques de l'exploitation, le suivi des sols avec l''utilisation de l'Intelligence Artificielle. |
| | **Fabrication de Compostage Liquide : Intrant Biologique et Écologique (IBÉ)** | Il vise la fabrication d'un système embarqué composé d'un bac servant à la dégradation de la matière organique et d'un bras mécanique qui détecte les produits compostables grâce à une intelligence artificielle. Ce bras mécanique sera multifonctionnel avec la possibilité de détecter les attaques et les fruits mûrs tout en notifiant le cultivateur sur son smartphone. |
| | **Smart Agricole pour Smart Diététique (SASD)** | Le projet consiste à mettre à la disposition des consommateurs une application interactive d'aide à la diététique avec la conception d'un kit personnalisé en fonction de l'âge, des activités quotidiennes, des antécédents médicaux et de l´IMC. Le kit est constitué d'un ensemble de capteurs capables de détecter les nutriments (% Calcium, Potassium, Magnésium, Protéines…), il est également muni d´un écran pour visualiser l´apport calorifique et le niveau d'équilibre alimentaire. |
| | **Sen 'manioc** | Le projet conste à instaurer la culture du manioc dans la région et la création d'une plateforme e-commerce pour faciliter la commercialisation de ces produits.<br>Sen ` manioc dispose aussi d'une application mobile permettant à l'utilisateur de suivre l'évolution de la plante, de détecter des maladies et d'identifier des attaques. |
| Chambre de Commerce de Kaolack (CCAK) | **Pole Agropastorale du Saloum** | Le projet consiste à mettre en place une ferme intégrée dans les chaines de valeur agricoles (production, transformation et commercialisation) : agriculture, aviculture, aquaculture/aquaponie, embouches, élevage, transformation de produits locaux. |

Le projet FDSUT Living Lab comme nouvelle programme de recherche et innovation

# FSUT-LL Scientific Committee

jokkolabs
social change hub

I.F.A.N.
Ch. A. DIOP

UNIVERSITE ALIOUNE DIOP de BAMBEY
UADB

i2cat
The Internet Research Centre

USSEIN
UNIVERSITE DU SINE SALOUM EL-HÂDJ IBRAHIMA NIASS

# AFRICA AS A LABORATORY OF A JOINT URBAN-RURAL TRANSITION.


In 2024 the 57% of its population live in rural zones.

In 2050, the 60% will live in urban areas.

What's next? Can ICT and living labs closing the gap?

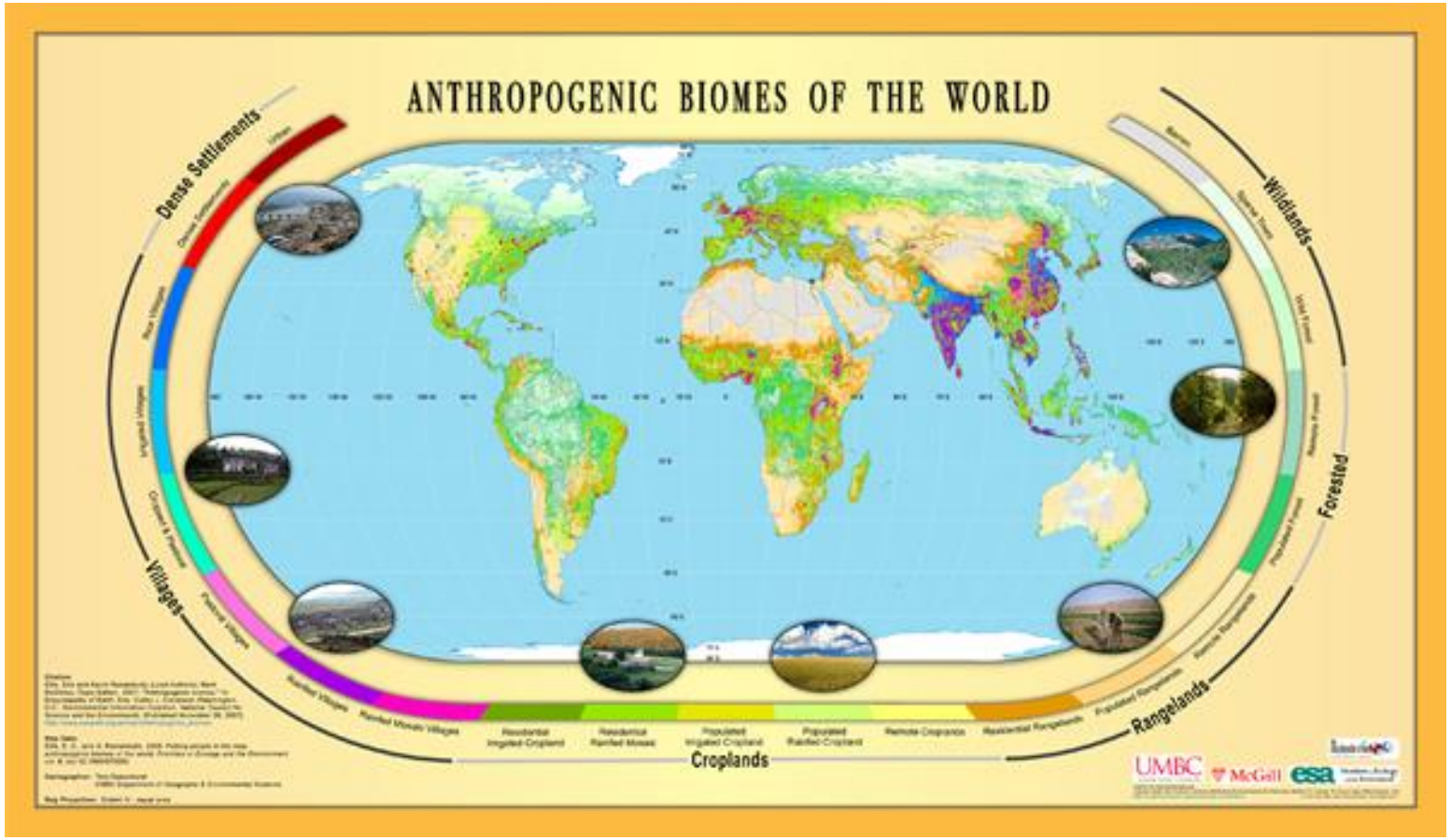
# Beyond the urban/rural dichotomy?

Civilizations
10.000 BC

Cultures
120.000 BC

## One Habitat hypothesis:

Can urban-rural living labs and
universal digital access closing the gap?




Ellis & Ramankutty (2008), Lu Huang, Jiangxiao Qiu & Jianguo Wu (2024)

i2cat

The Internet
Research Centre

European
Network of
Living Labs

**Thanks a lot!!**

**artur.serra@i2cat.net**

16:00 - 17:00

# Wrap-up Networking

*Speaker*

**Karel Van Oordt**
UTMC partner,
Project Coordinator Eurocities

Funded by
the European Union

URBAN TRANSITIONS MISSION

MI • CENTRE

# Thank you for joining us!

Funded by the European Union

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In support of:

URBAN TRANSITIONS MISSION

Connected with:

NET ZERO CITIES

# UTMC Partners

Session 3:

- Opening remarks




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* Both ICLEI European Secretariat GmbH (ICLEI EURO) and ICLEI - Local Governments For Sustainability EV (ICLEI WS) are partners of the UTMC project