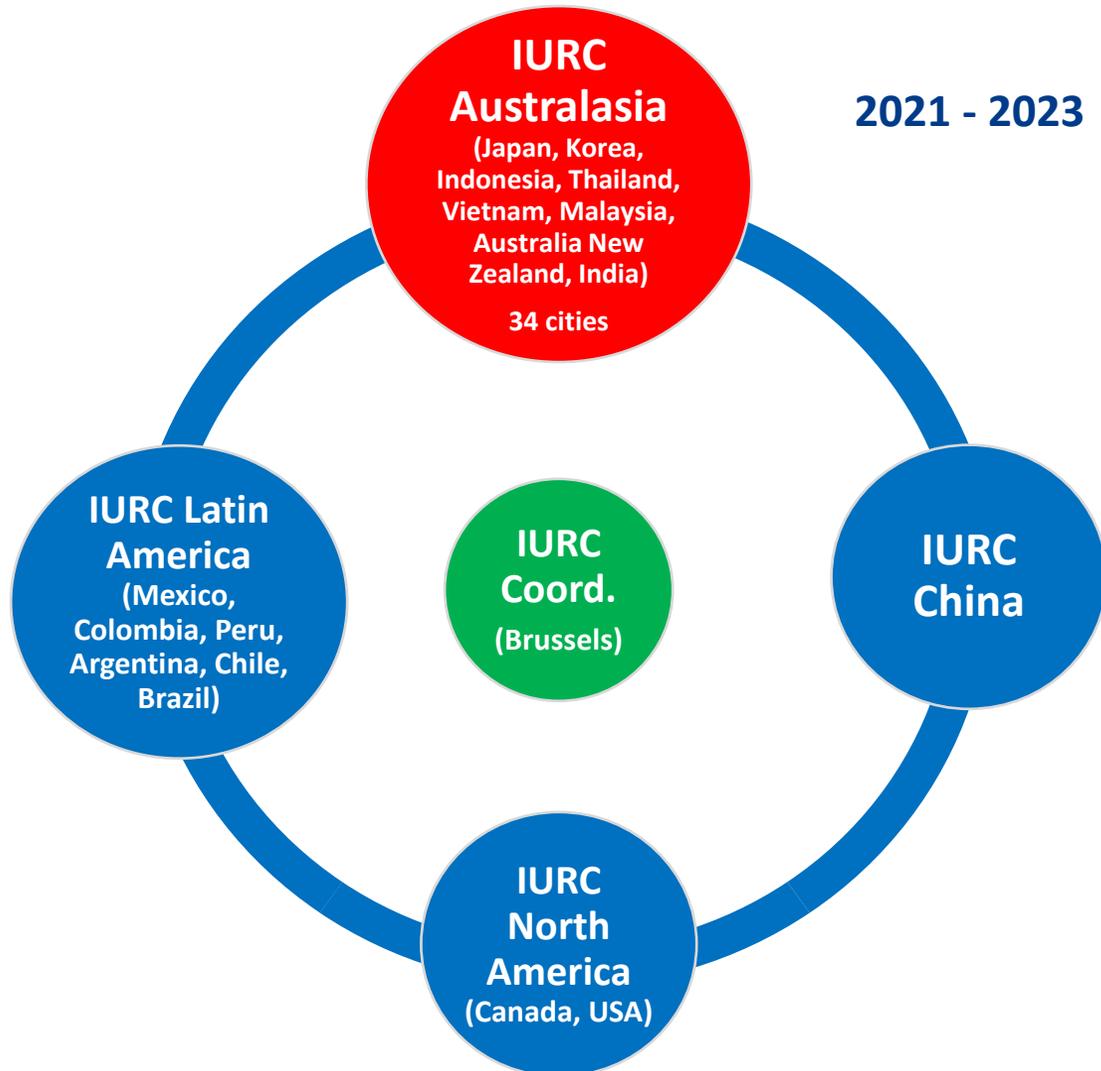


Key Figures



What? 34 + 34 cities will be involved in pairing / cluster activities

- Thematic cluster events
- Trainings
- City-to-city / multi-city study visits
- Networking events in Brussels and the region
- Thematic & best-practices reports

Why?

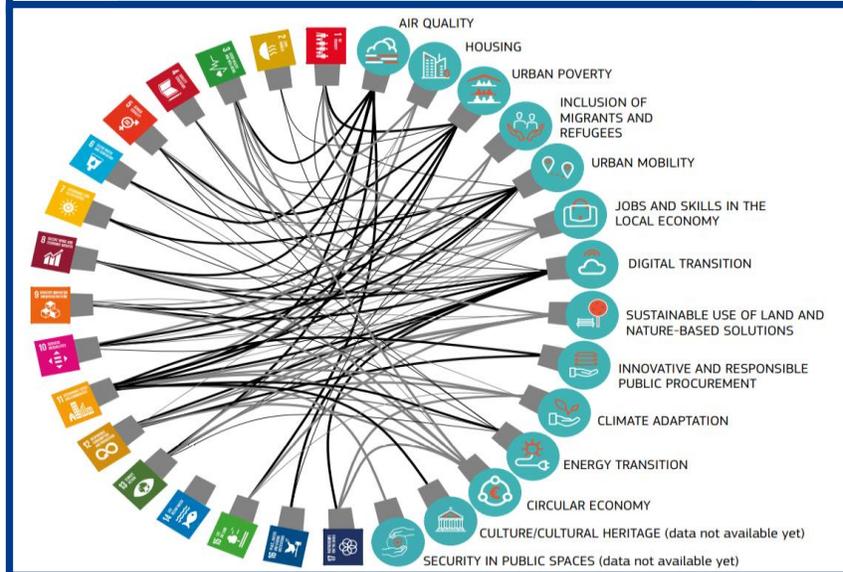
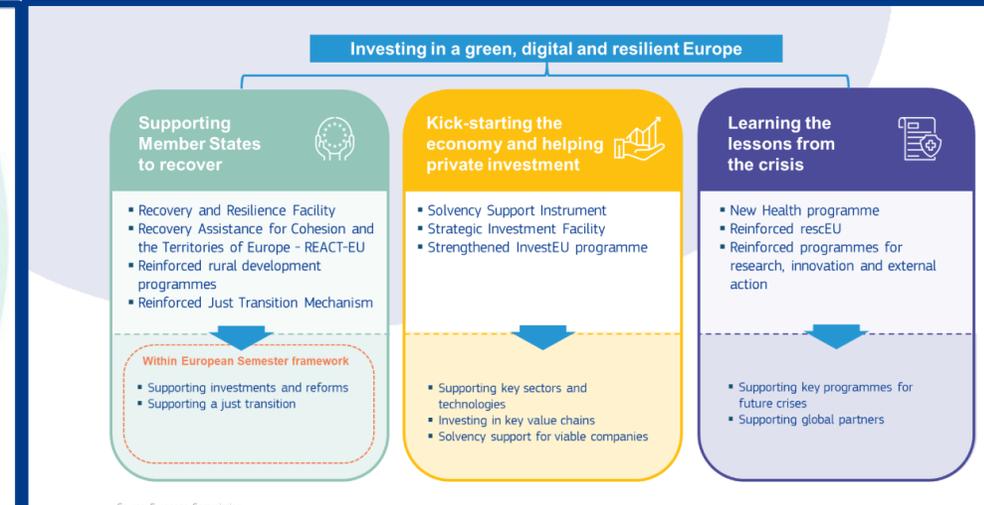
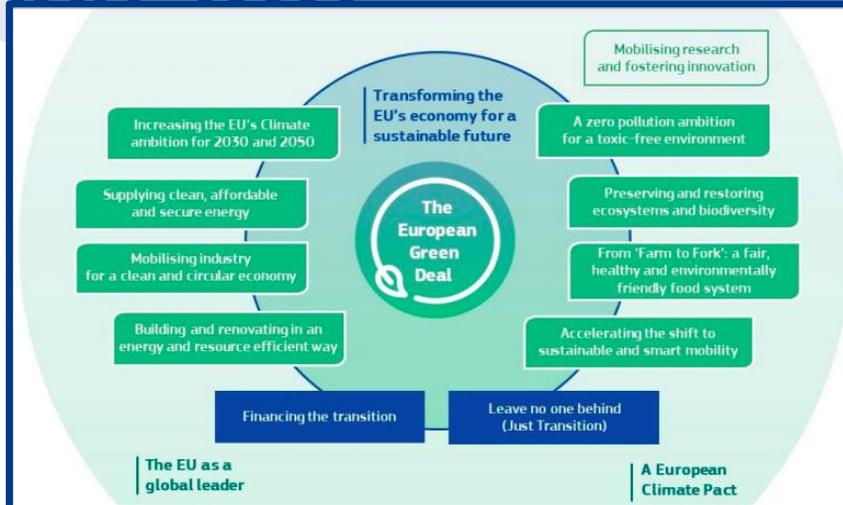
- Support EU city diplomacy (establish relationships)
- Realise pilot projects & UCAPs

How? Regional team in Thailand (coordination), India and Japan. Helpdesk for cities in all countries. Today: Australia / NZ, the Republic of Korea and Malaysia.

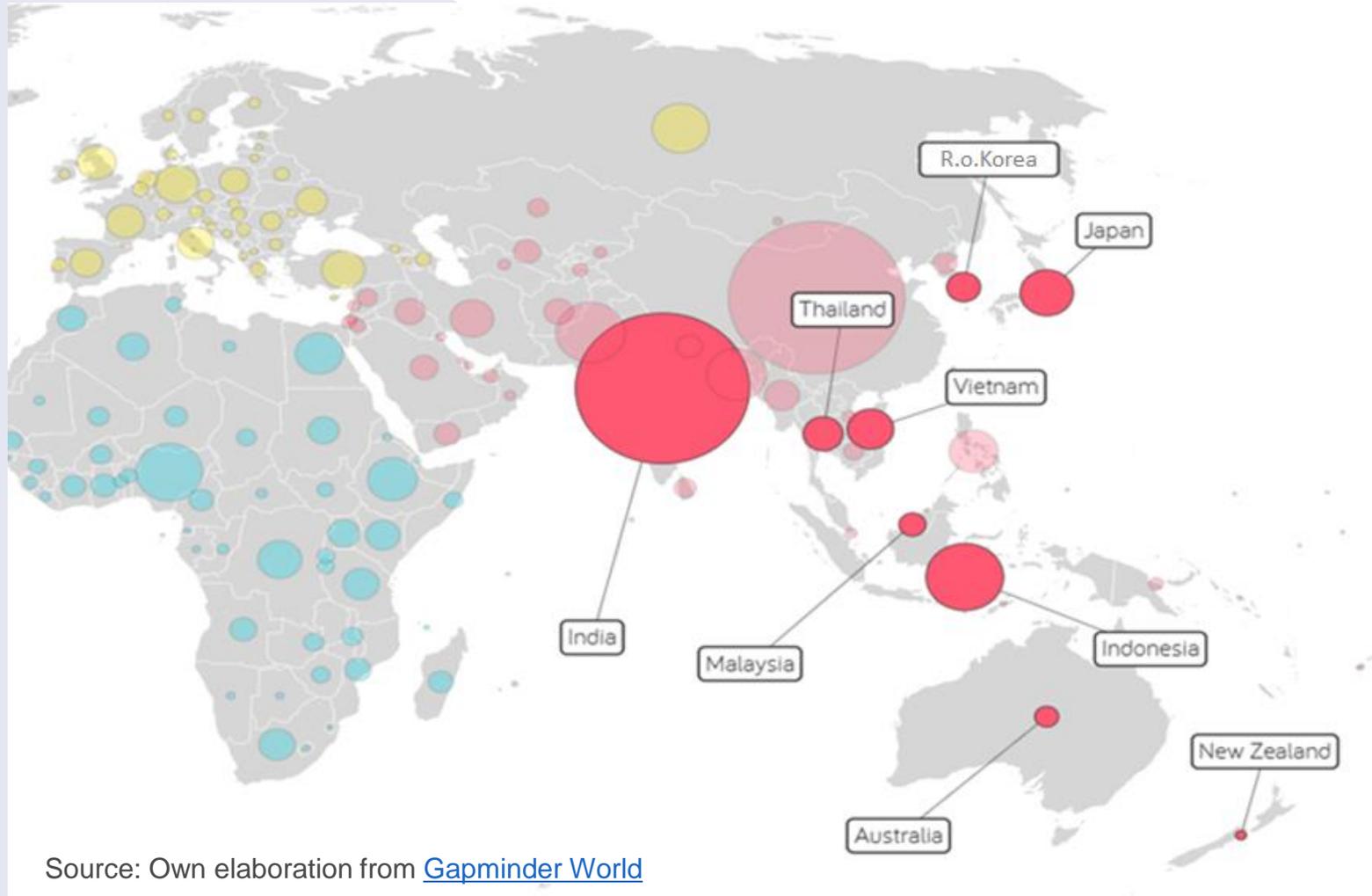
What else?

Support *business* cooperation
Design, produce and disseminate *audio-visual* content

Project Context – EU Green Deal, Recovery Package, SDGs, EU Urban Agenda IUC



The Region



Source: Own elaboration from [Gapminder World](https://www.gapminder.org/)

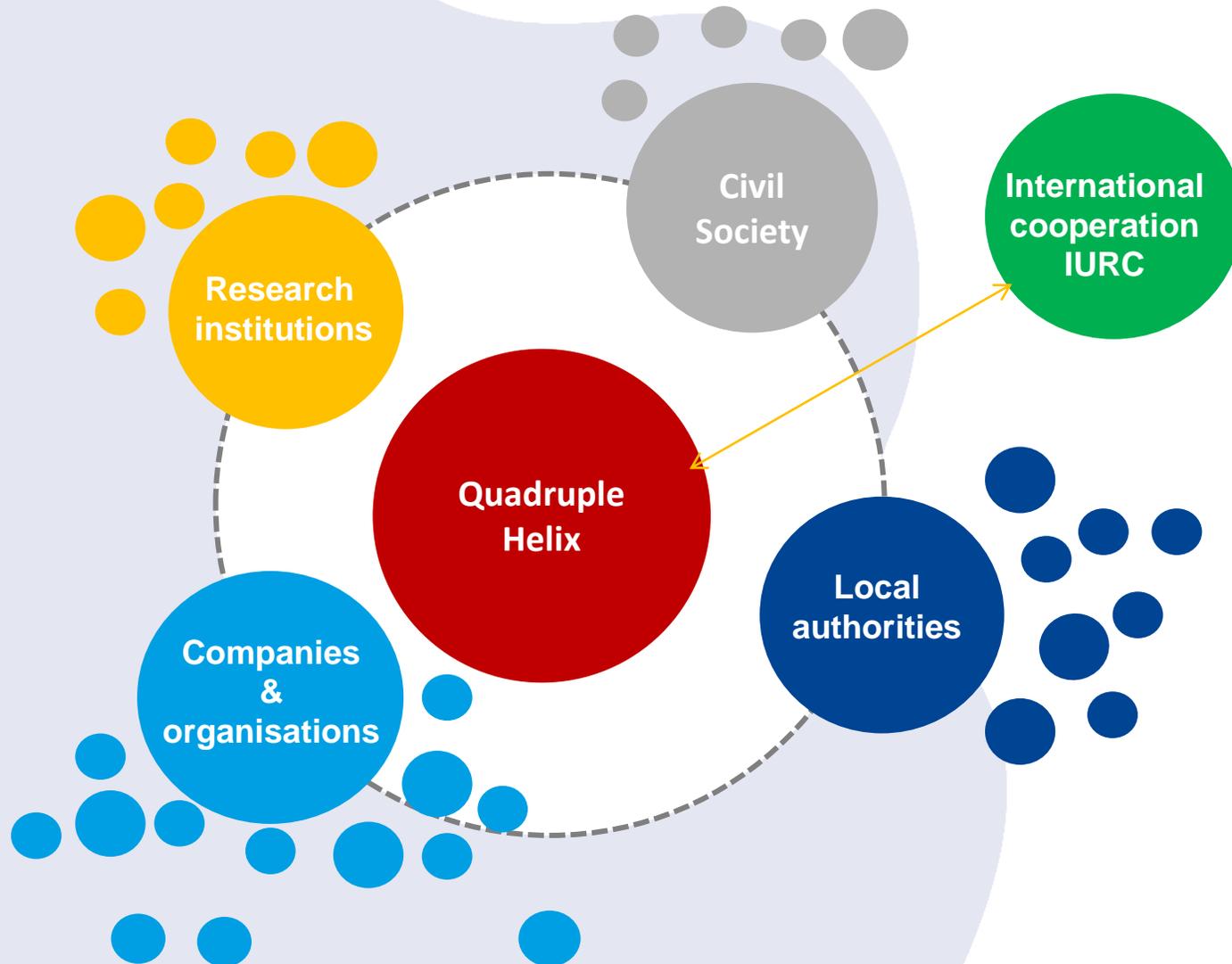
Total population in 9 Australasian contract countries: **2.06 billion inhabitants**

Fast **growing** urban population.

Remarkable **urban diversity** in the region is with regard to demographics & urban development challenges.

For example, **Japanese** cities face much higher population densities than **Malaysian** ones, and **Indian** cities growth at a much higher speed than **Australian** or **New Zealand** cities.

The Quadruple Helix Approach



Urban Cooperative Action Plan (UCAP)

- Identify key 4-Helix **stakeholders**
- Effective **matching & coaching**
- Identify **key concrete projects**
- Streamline **communication** (e.g. social media groups)
- **Follow-up** regularly (online)
- Define **decision-making** mechanism
- Develop implementation **roadmap**
- Remain at **project-level** work
- Promote **self-initiatives** by stakeholders

Global Thematic Concentration for Cooperation

TH-NW. 1 – ECOLOGICAL TRANSITION- GREEN DEAL

A Greener Future for Cities in Europe and Asia / Australasia

CIRCULAR ECONOMY
Waste Management

GREEN
INFRASTRUCTURE
Nature Based Solutions
Water Management

SUSTAINABLE AGRICULTURE
Food systems, Urban Gardens

TH.NW. 2 – URBAN RENEWAL

A Sustainable Future for Cities in Europe and Asia / Australasia

URBAN
AGENDA/PLANNING
SUD Strategies,
Public Space,
Urban Model: 15 min. Vision

MOBILITY & TRANSPORT
Street 4 people -
Superblocks – Metropolitan
Connections

TH.NW.3 – INNOVATIVE, SUSTAINABLE & CARBON NEUTRAL ECOSYSTEMS & STRATEGIC SECTORS

A Smarter Future for Cities in Europe and Asia / Australasia

TOURISM &
CULTURE

HEALTH, LIFE
SCIENCE,
ELDERY
BIOECONOMY

EDUCATION, JOBS &
SKILLS,
Clusters, Innovation
Centres

CROSS CUTTING OVERALL CHALLENGES



POST COVID RECOVERY IN CITIES



CLIMATE CHANGE & ENERGY TRANSITION



SMART CITY & DIGITAL TRANSITION

From Thematic Clusters to Pairings

IURC TEAM SUPPORT (HELPDESK)

Conduct of city surveys (May 2021)

Identify specific policy needs, thematic interests, priorities of knowledge exchange

Building of thematic city networks (2021)

Webinars, networking events (2021)

Exchange of knowledge, sharing of best practices

Urban Cooperation Action Plans (UCAPs)

Actions to create, capitalize / improve the best practices identified

Involvement of academia, business & civil society

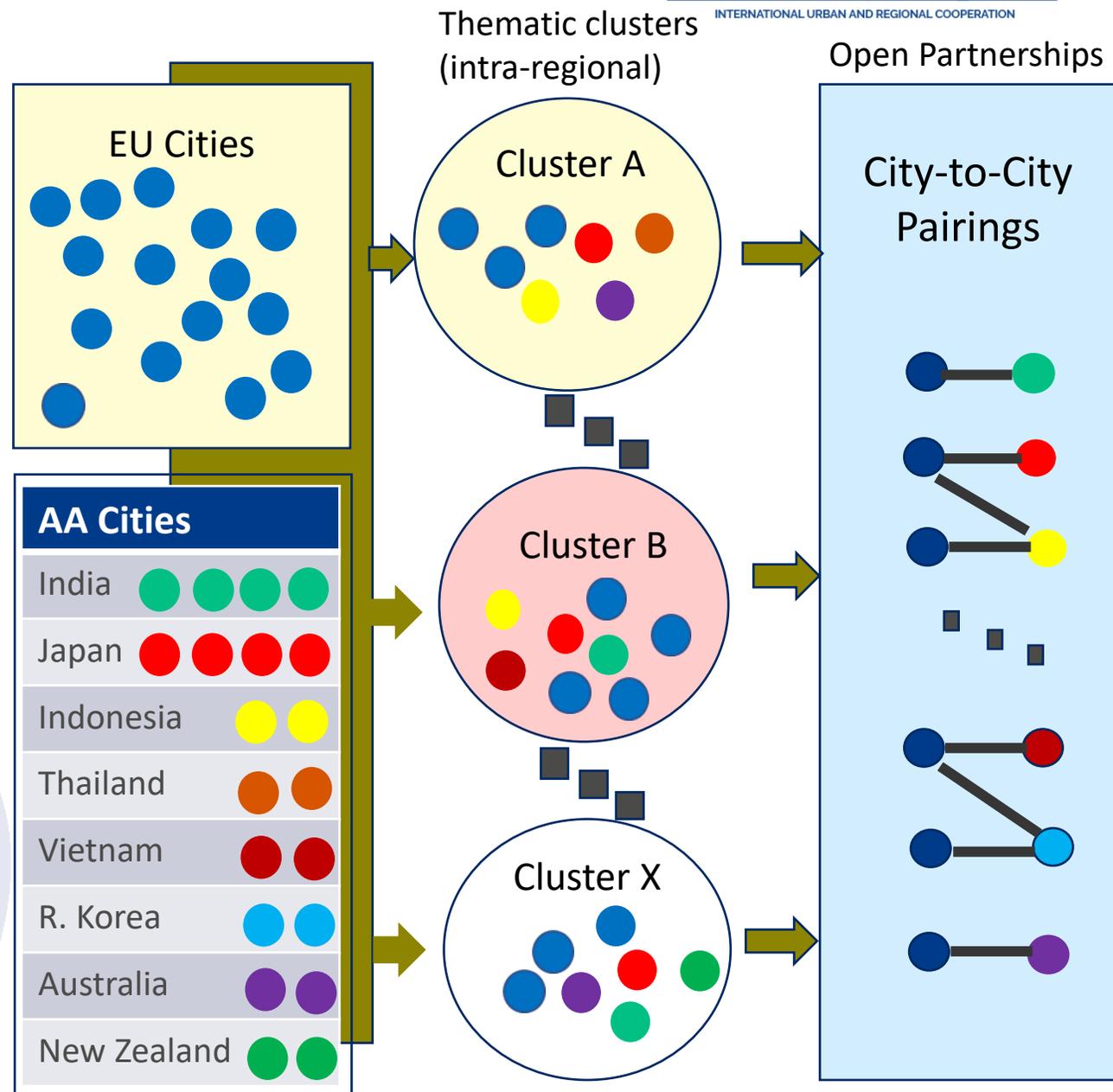
Evolve into bilateral / multilateral pairings (2022-2023)

Study Visits (EU to Asia 2Q2022 – Asia to EU 4Q2022)

Propose Pilot projects

Develop UCAPs

Deliver pilot projects



Timeline 2021

- Application of European cities
- Selection of AA cities
- Establishment of Helpdesk / Country Coordination

- 1st Thematic cluster meetings

- 2nd Thematic cluster meetings
- Preparation of study tour
- Elaboration of country report

March - April

May - June

July - August

September

October

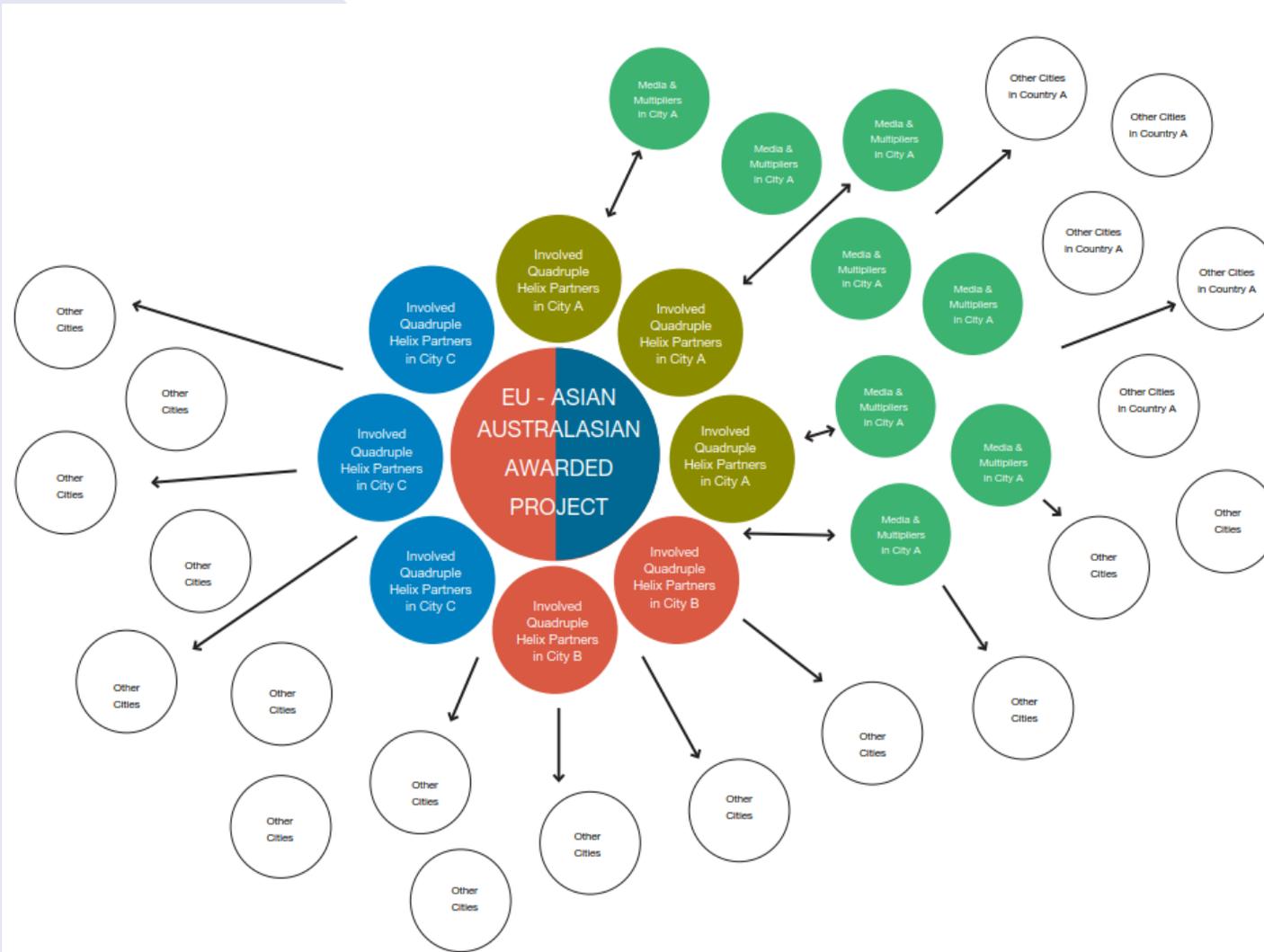
Nov - Dec

- Coordination with EU Delegation
- Analysis of relevant projects

- Matching process
- Coaching cities

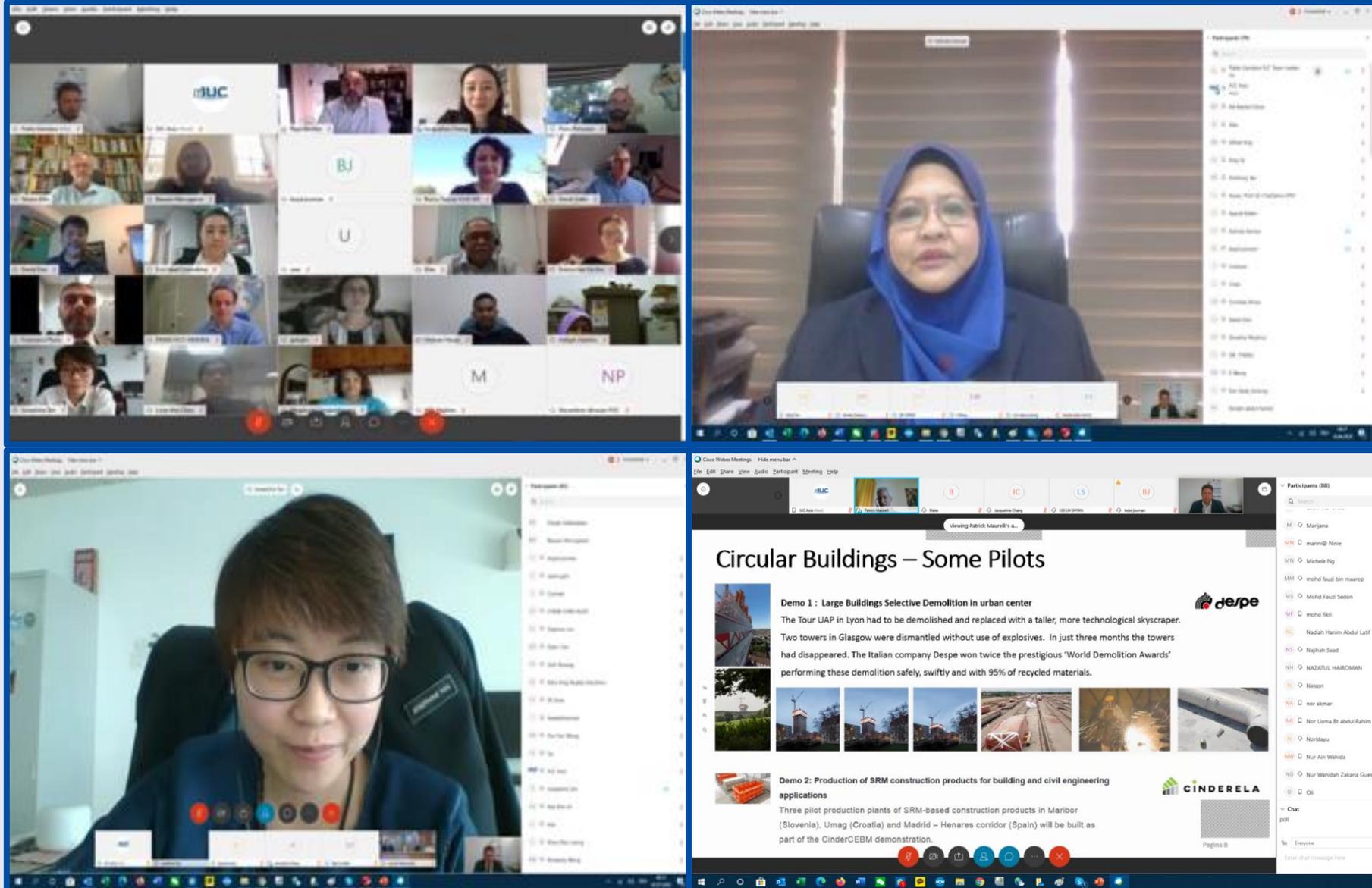
- Online participation at European Week of Cities and Regions

Pilot Projects Competitive Award



- Promote city engagement for **short term actions** within the city or thematic clusters.
- The fund aims at encouraging cities to propose **innovative** and sustainable pilot projects in the short term that benefit the sustainable urban development of the cities involved.
- Applications must be submitted by the **EU cities**, since the benefit should be primarily for them.
- Moreover, this will inspire other cities to **replicate** actions, thus creating a regional **community of practice**.
- **Time:** 2022 - 2023

IUC Inspiration – Circular Economy



Circular Buildings – Some Pilots

Demo 1: Large Buildings Selective Demolition in urban center
The Tour UAP in Lyon had to be demolished and replaced with a taller, more technological skyscraper. Two towers in Glasgow were dismantled without use of explosives. In just three months the towers had disappeared. The Italian company Despe won twice the prestigious 'World Demolition Awards' performing these demolition safely, swiftly and with 95% of recycled materials.

Demo 2: Production of SRM construction products for building and civil engineering applications
Three pilot production plants of SRM-based construction products in Maribor (Slovenia), Umag (Croatia) and Madrid – Henares corridor (Spain) will be built as part of the CinderCEBM demonstration.

IUC Inspiration – Digital Twins & Training





CENTRO DI RICERCA
INTERDISCIPLINARE TERRITORIO
EDILIZIA RESTAURO AMBIENTE CITERA



Ministero
per i beni e le
attività culturali
e per il turismo



INTERNATIONAL URBAN COOPERATION
European Union – Asia



A European Union
Programme

Welcome to the Rivaldi Palace Virtual Tour !

This is the first Demo deployed by **CITERA Sapienza** and **MIBACT DGERIC**, with the support of **IUC-Asia Programme**, to test and show the potentialities of 360° modelling techniques and virtual environments, applied to a restoration complex worksite.

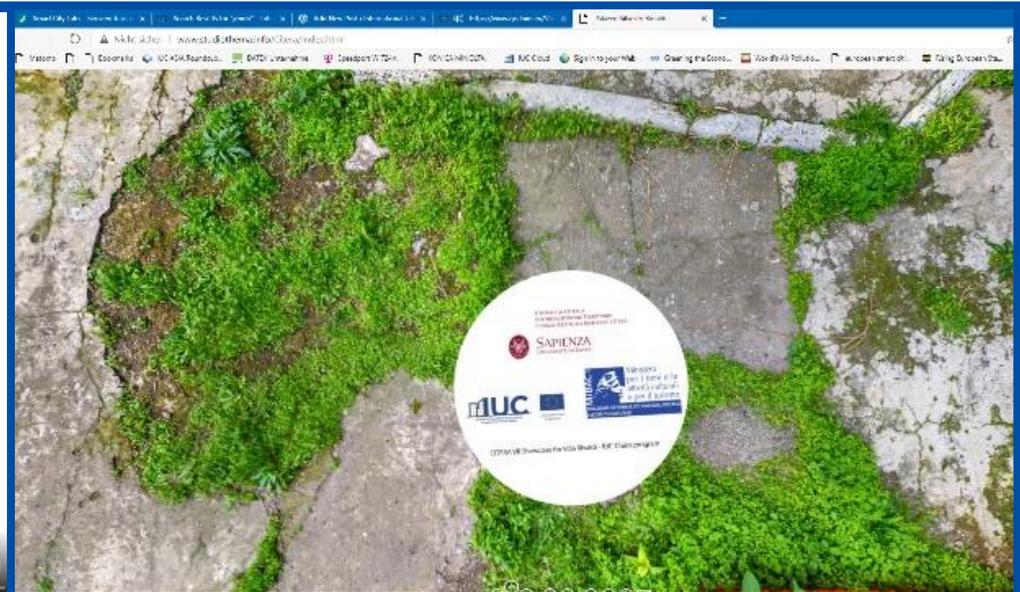
The **Digital Twin Lab of CITERA Sapienza University** is engaged in research activities in the field of digital modelling aiming to the protection and conservation of historical buildings and cultural heritage. The tradition and know-how, the Italian excellence in the field of restoration, with the support of new technologies, generate great opportunities of international cooperation for Research, Training and Education. Training on job, Living Lab and advanced research on site activities meet in the roman experience of the **Renaissance Palace of Silvestri-Rivaldi**, nearby the Colosseum, where takes place one of the most important recovery and restoration activity currently underway in Italy. Here **MIBACT – DGERIC** is managing several «Restoration School Worksites», open to students and teams from all over the world, and many workshops focusing on different applied disciplines are going to be planned within **Ad Templum Pacis Project – DTC LazioInnova Regione Lazio**.

A «School Worksite» is a place where the immaterial enrichment of new discoveries is shared on the ground, with interdisciplinary scopes and approaches and with the participation of many user profiles: historians, restorers, digital designers and modelers, architects, cultural promoters, sponsors and visitors.

CITERA Research Centre proposes new activities and workshops on Historical BIM and innovative interactive models for Digital Twins. Within the **IUC - International Urban Cooperation – programme**, Rome and Chinese cities are cooperating in this domain for R&D and educational purposes. Theory and practice have never been so close. Italy and China are working closer and closer together.

Learning by cooperating, cooperating by training

0.14 / 1.22 **Enjoy the Rivaldi Palace Virtual Tour DEMO!**





yanshuwang



Zhichao Tian



Valeria De Notti



Silvia Pennacchia



GIS-BIM for Digital Integrated Design

**Basic Theories of Performance and Optimization
Design of Green Buildings and Cities**

Xing Shi, Prof., Ph.D.
College of Architecture and Urban Planning
Tongji University



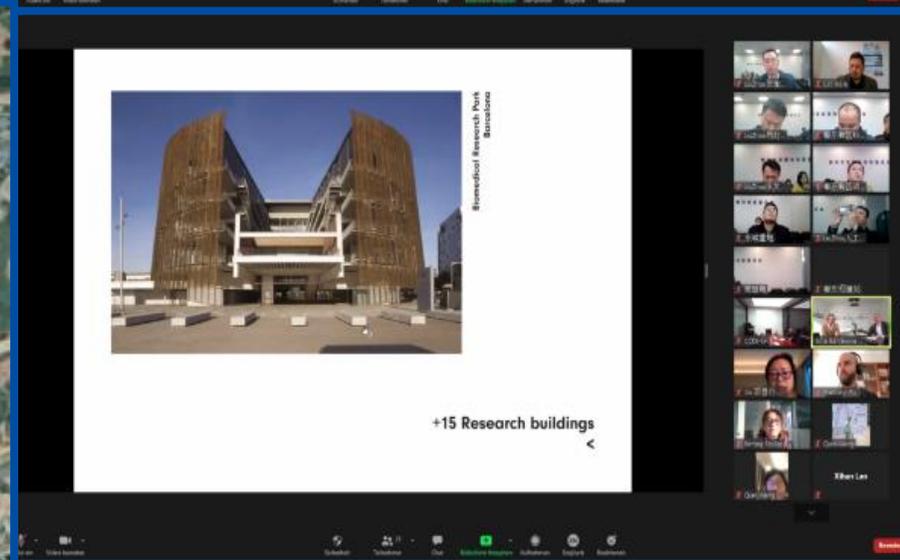
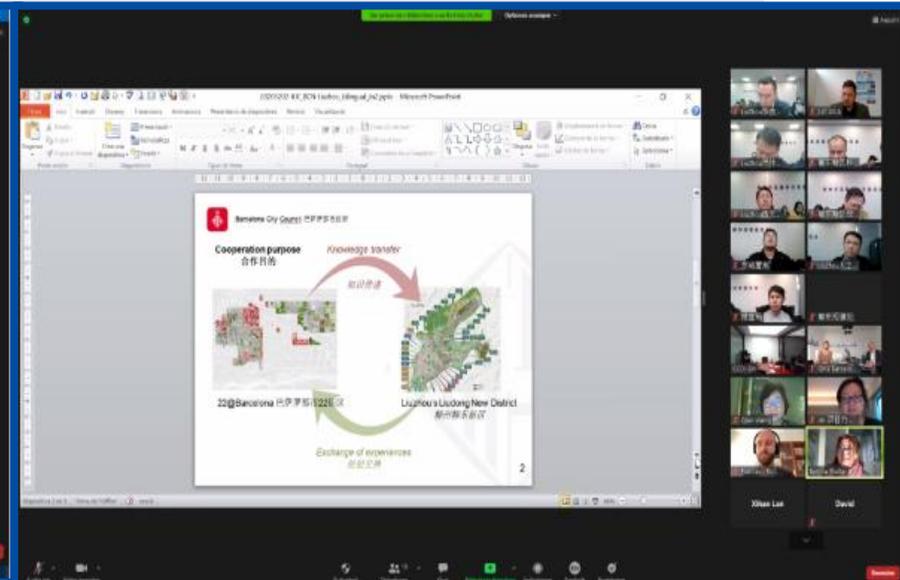




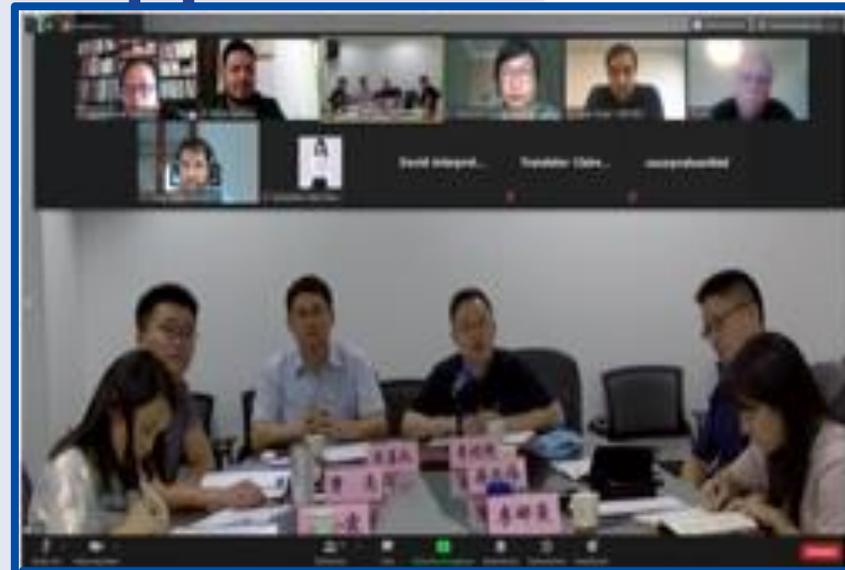
GISBIM
INTERNATIONAL
SUMMER SCHOOL

COOPERATING BY TRAINING

IUC Inspiration – Urban Development



IUC Inspiration - Innovation & Business Support



IUC Inspiration – EU Cities Business Platform & Blockchain Consultations

opencityiotmartlab.jimdofree.com/europe-asia-smart-platform/

HOW IT WORKS

The platform allows to identify potential candidate applications for technology transfer in target business fields and supporting scientific and technological cooperation among researchers, small and medium enterprises, start ups, entrepreneurs, investors. The platform is also used to contact identified companies in order to validate the foreseen interest. At this stage, the efficiency of the link enabled by the platform is key to enable rapid validation and prioritization of the different technology transfer paths identified. This step is preceded by a validation phase through experts who help better articulate the potential benefit of the technology placed in new context.

Research

TRL 6 Prototypes
Innovative Start Ups
Research Organisations

Business

Strategic partners
Pilots and Demonstrators
Go to Market

Experts

MILESTONES

PATENT INVENTORS: Giovanni Raspa & Gianluigi Tiberio

2010	2012	2015	2016	2017	2018	2019
THEORETICAL STUDY	PHANTOM TESTS	PHANTOM TESTS	CLINICAL TRIALS	CLINICAL TRIALS	CLINICAL TRIALS	CLINICAL TRIALS
		STARTUP CUP	STARTUP ACADEMY Unicredit Start Lab	Medtec STARTUP ACADEMY	HORIZON 2020 SME-INSTR PHASE 2 WINNER	USA PATENT GRANTED
		PTI CITE	ITALY PATENT GRANTED	HORIZON 2020 SME-INSTR PHASE 1 WINNER	CHINA PATENT GRANTED	

The SMART CITY CLUSTER

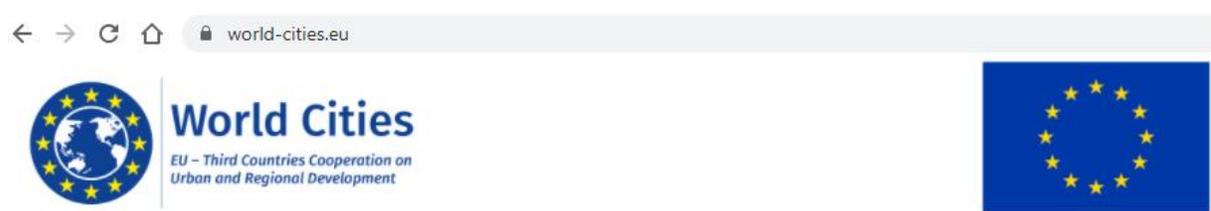
An Alliance of 120+ members of the Smart Cities Industry

Helping Cities become Better Places since 2014

Blockchain

- What does it bring to us?
Transparency, Integrity, Data preservation, Secure automation
- Alastria: federated blockchain Spanish platform
- Legislation
Actually there are several efforts to develop a common European legal framework
- Use Cases in Public Administration
 - Identity Management
 - Assets Records
 - Smart contracts
 - e-Voting
 - e-Health
 - Justice Administration
 - Education Certificates
 - e-Procurement

Previous experiences – Korea, Vietnam, Indonesia, Australia (2017-18)



PROJECT	ACTIVITIES	CITIES	COUNTRIES	RESULTS	TOPICS	한국어	BAHASA	TIẾNG VIỆT
	2017 – 2018			CONNECTED SMART CITIES CONFERENCE 2018				
	2015 – 2016			MEETING IN KOREA – 03/2018				
	CETREGIO (2011 – 2014)			MEETING IN KOREA – 03/2018				

PROJECT

World Cities was a project of the **European Commission General for Regional and Urban Policy**. The project was implemented as a Preparatory Action of the **European Urban and Regional Initiative**, aiming to share experience and best practice between cities and regions on the theme of territorial development, urban-rural partnership and urban development.

The project facilitated the exchange of knowledge and urban development policy issues. It supported the implementation of pilot regions and cities and the implementation in the short-term, in the field of energy and green technologies (energy efficient buildings and green technologies) and green technologies (energy efficient areas were decided by the involvement of the local authorities).

- MEETING IN AUSTRALIA – 03/2018
- MEETING IN VIETNAM – 02/2018
- MEETING IN INDONESIA 01/2018
- KOREA- WORK MEETING IN EU (2) 11/2017
- WORK MEETING IN THE EU (1) – 11/2017
- WORK MEETING IN THE EU – 10/2017

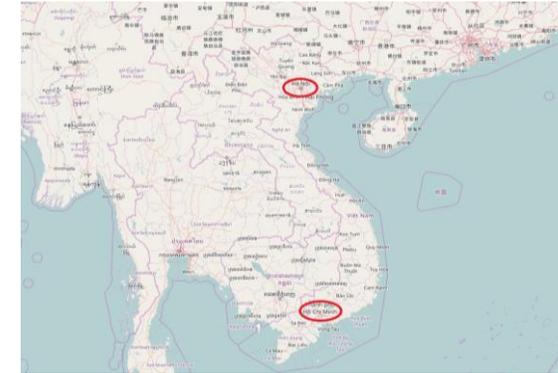
the **Directorate General for Regional and Urban Policy** originated in a pilot project of exchange of experience between EU countries.

- BUSAN IN BARCELONA
- GWANGJU IN TAMPERE
- SEOUL IN ENDHOVEN
- SUWON IN SCOTLAND

Impressions



Makassar, Semarang



Hanoi, Ho Chi Minh City



Adelaide, Canberra, Hobart, Melbourne



Busan, Gwangju, Seoul, Suwon

For country information, please visit our regional website www.iurc.eu/australasia



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IURC Asia & Australasia Partner Country: Thailand
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Country Description The New Zealand population has become increasingly urban, like the rest of the world. The size of New Zealand cities.

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