



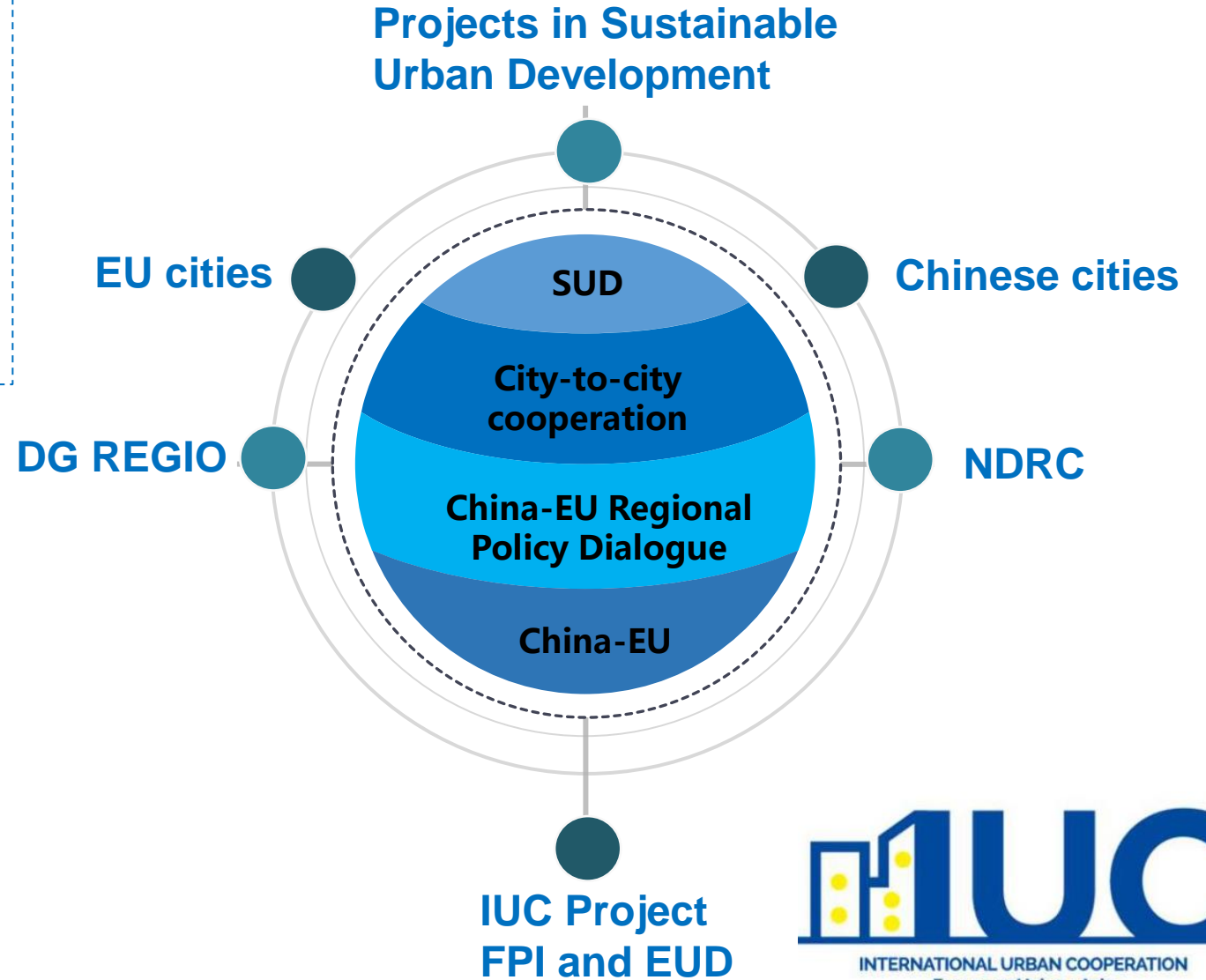
Brief Introduction to the IUC Asia Programme – Focus China

**Pablo Gándara, Team Leader, IUC ASIA
Granada Blockchain Meeting, 12th November 2020**

IUC Project Introduction

Component 1:

Promote city-to-city cooperation in sustainable urban development within the *EU-China Regional Policy Dialogue (DG REGIO-NDRC)*



13th EU-China High Level Seminar – Zhengzhou, July 2018

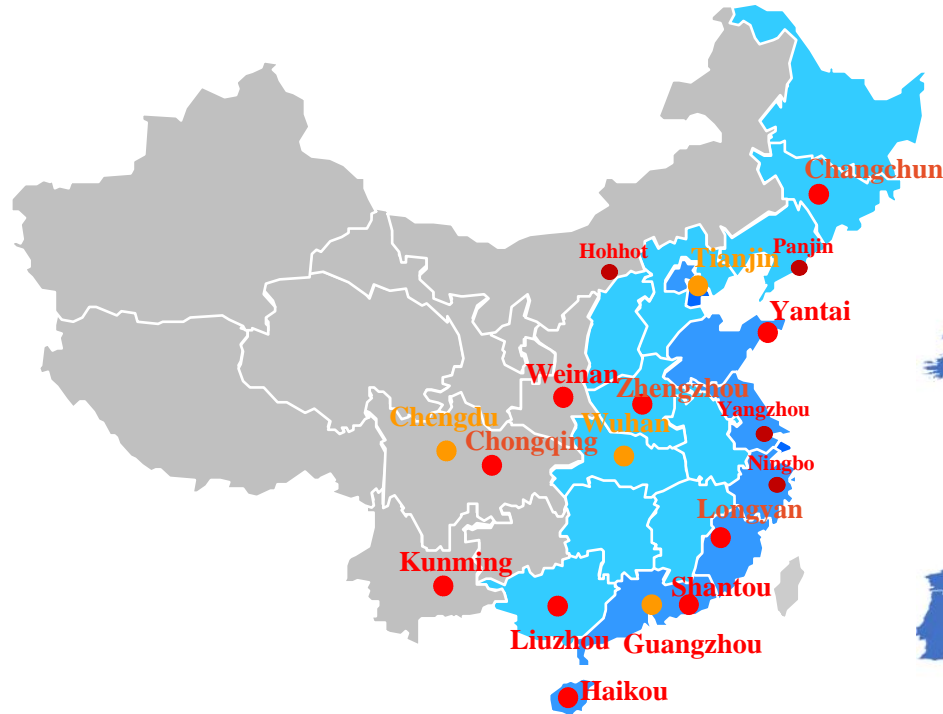


14th EU-China High Level Seminar – Brussels, April 2019



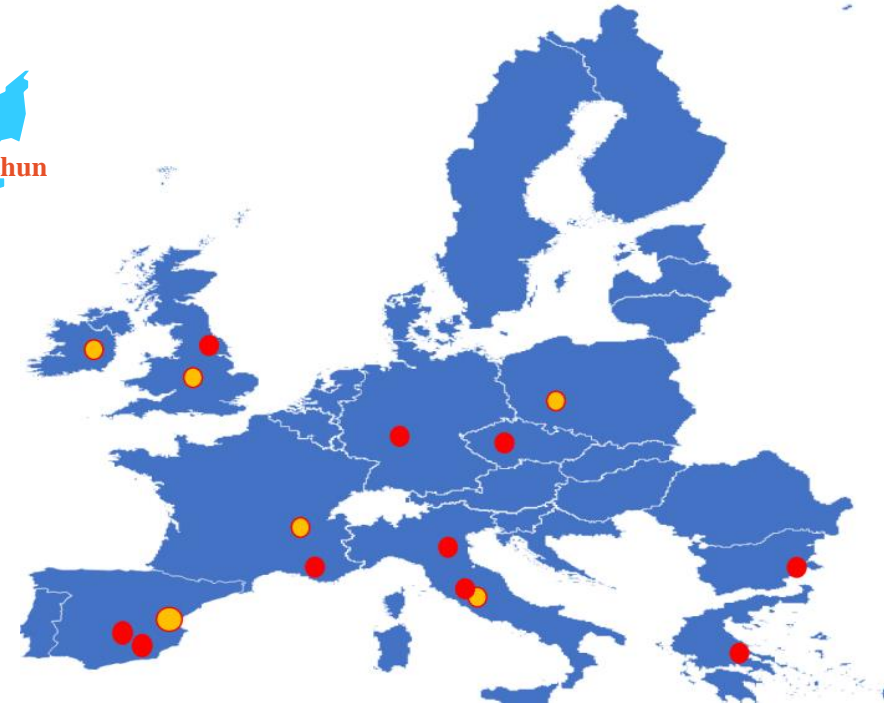
Pilot Cities for IUC Cooperation between the EU and China

Chinese Pilot Cities 2014-20



Chongqing, Longyan, Zhengzhou, Shantou, Haikou,
Changchun, Kunming, Liuzhou, Yantai, Weinan, Tianjin,
Chengdu, Wuhan, Guangzhou, Hohhot, Panjin, Ningbo,
Yangzhou

Selected EU Pilot Cities 2017-2020 (IUC)



Málaga (Spain), Rome (Italy), **Granada (Spain)**
Nice (France), Barnsley (UK)
Reggio Emilia (Italy), Stuttgart Region (Germany)
Mannheim (Germany), AAK (Greece), Málaga (Spain)
Burgas (Bulgaria), Bologna (Italy), Barcelona (Spain)
Greater Manchester (UK)

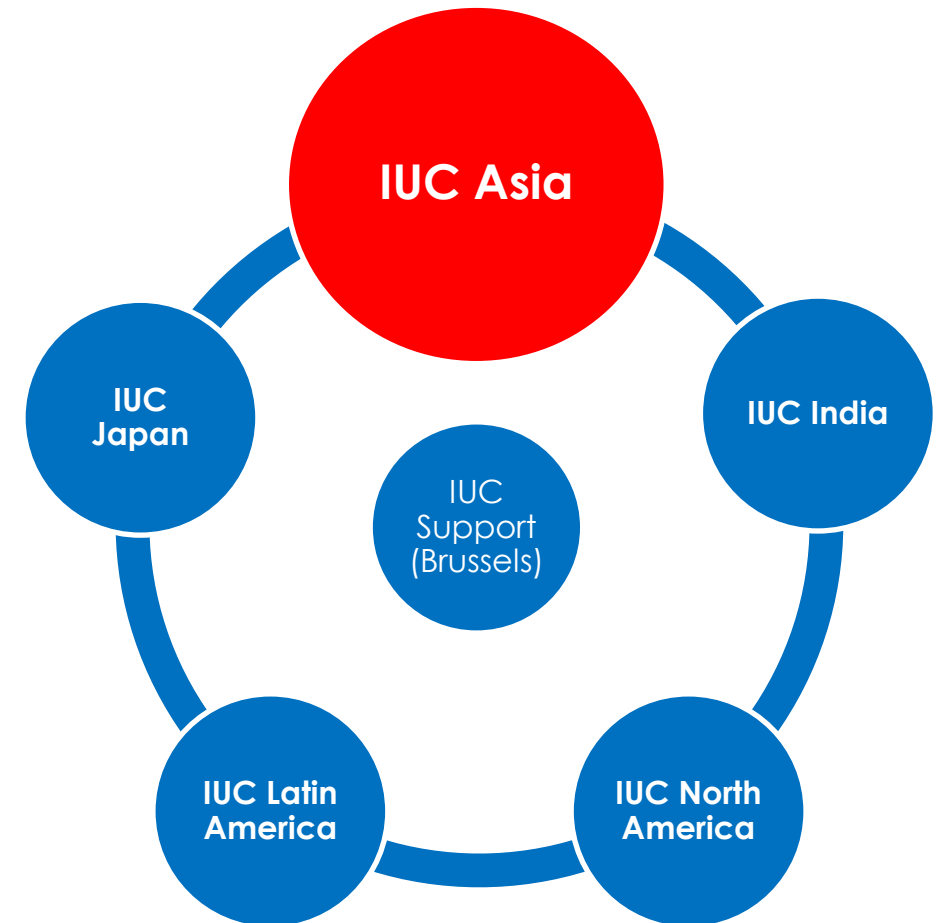
The EU's IUC Programme at a Glance – Focus C1 EU-China

Global EU Programme launched 2017 managed by the **Foreign Policy Instrument (FPI)**. Aims to support:

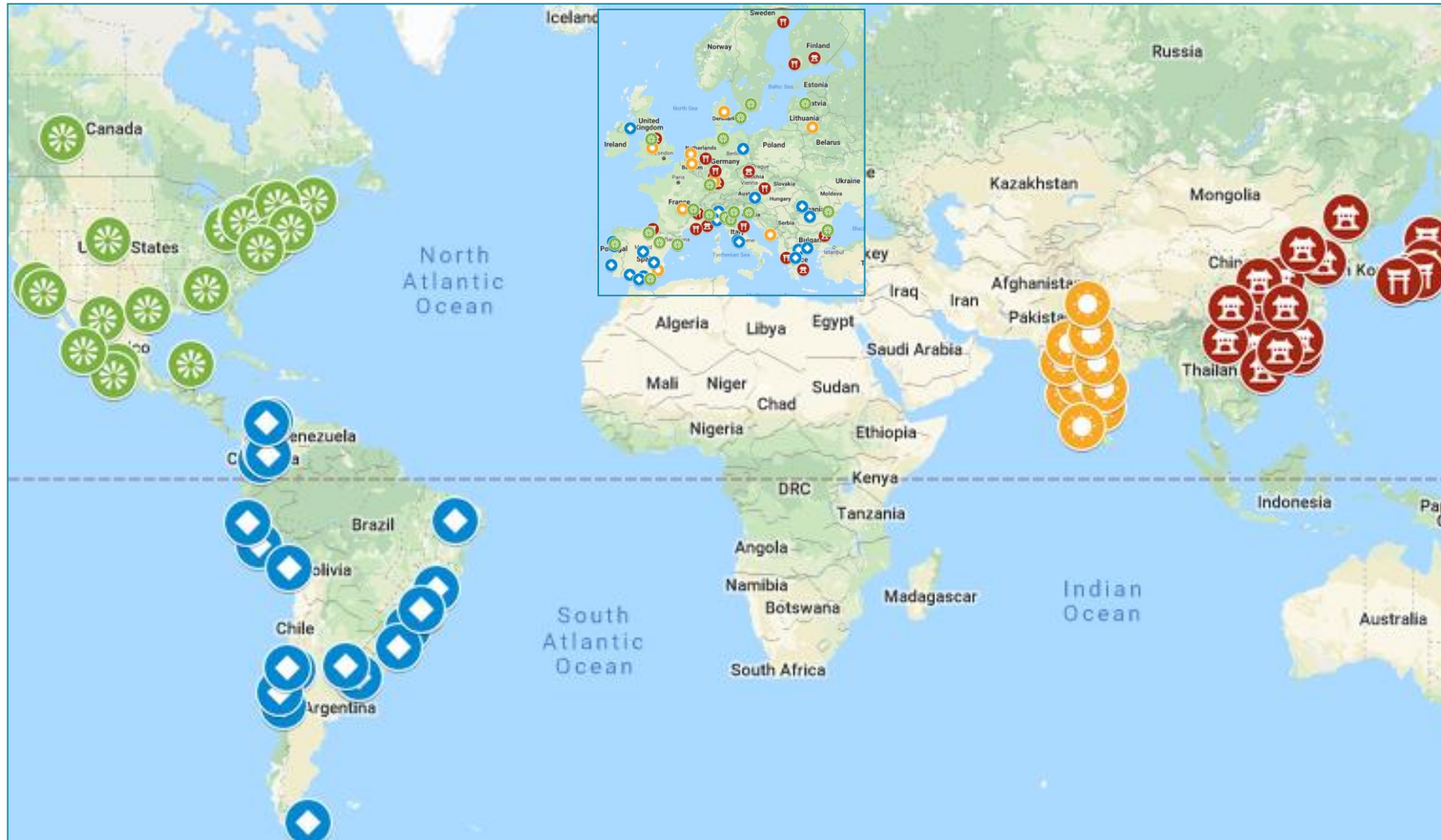
- Bilateral EU policy objectives;
- Implementation of UN Urban Agenda, the UN Sustainable Development Goals, and the Paris Climate Change Agreement

In Asia, the IUC is working in two main areas:

1. **Component 1: Multi-City Cooperation on Sustainable Urban Development**
 2. **Component 2: Support Cities in Asia on Climate Change** Mitigation, Adaptation and Clean Energy Access (especially within the Global Covenant of Mayors - GCoM)
- Timeline: 2017 – 2020 (1st Phase)
 - Team based in Beijing and Indonesia



EUs IUC Multi-city Engagement: Global Networks



Over **150** cities
already involved

- From the **European Union:**
 - **75** cities from 21 Member States
- From **Asia**
 - **18 Chinese** cities
 - **9 Japanese** cities
 - **12 Indian** cities

Urban Agenda of the EU – Connecting the UN' s SDGs to Cities

EU's 14 partnership areas



Culture/Cultural Heritage



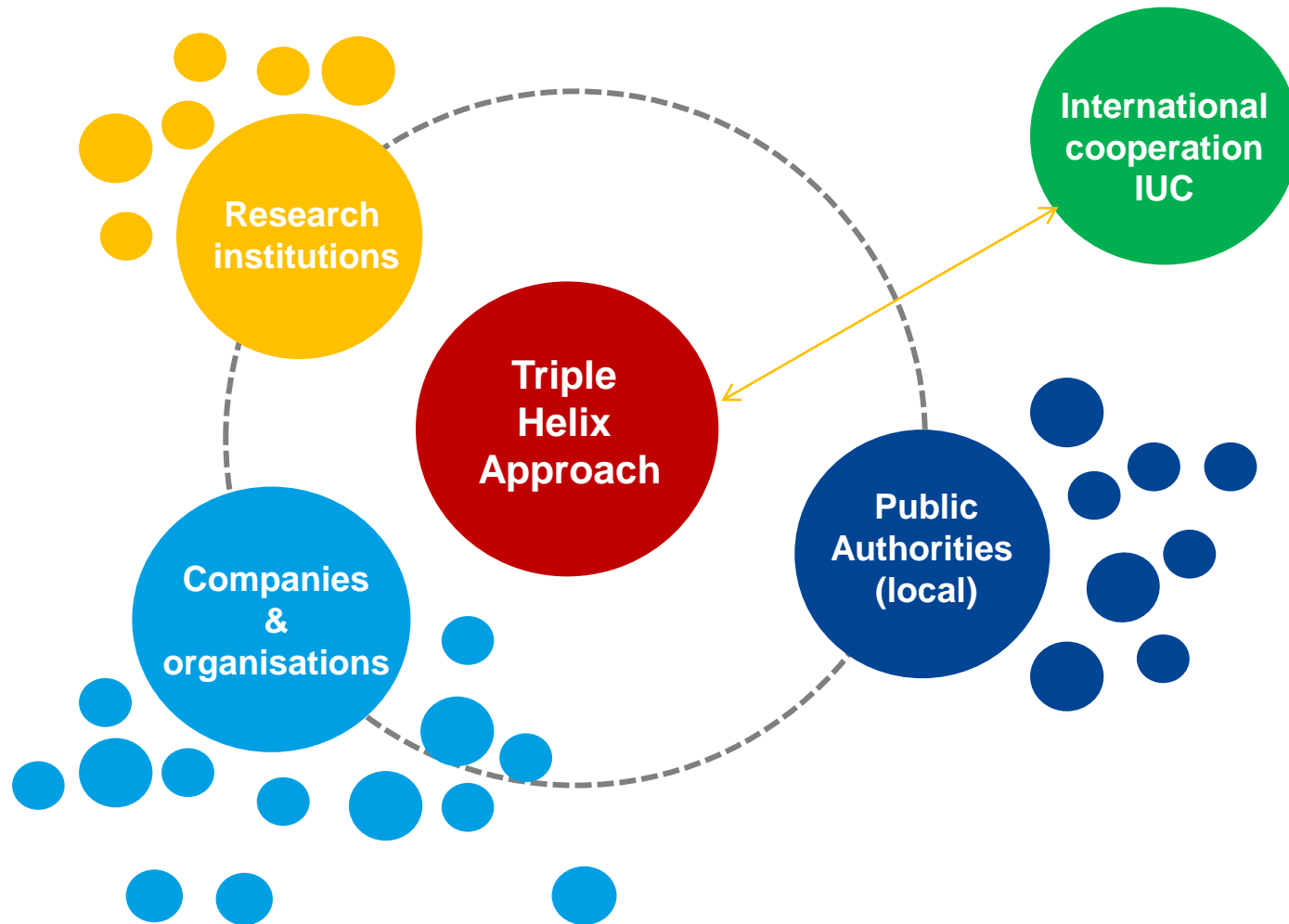
Security in Public Spaces

United Nations 17 Sustainable Development Goals (SDGs)



• Approach for Cooperation

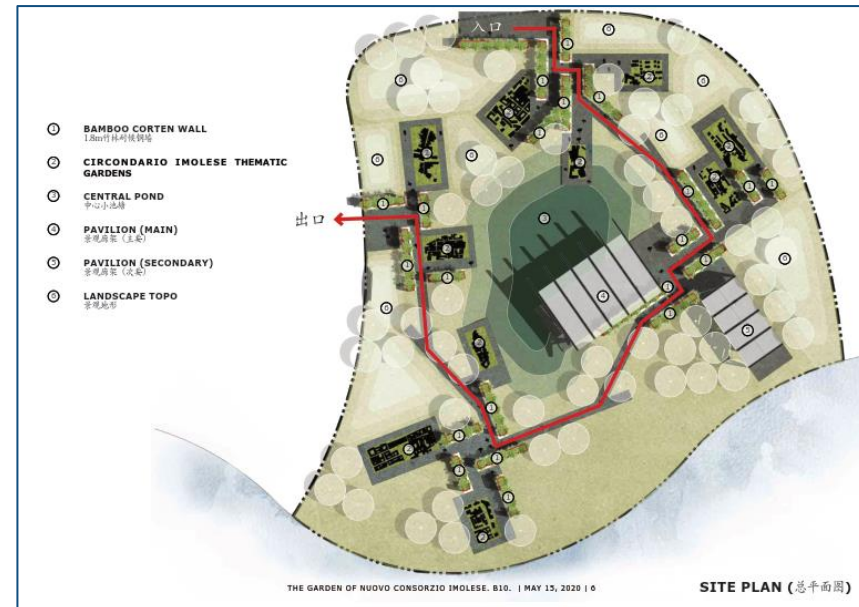
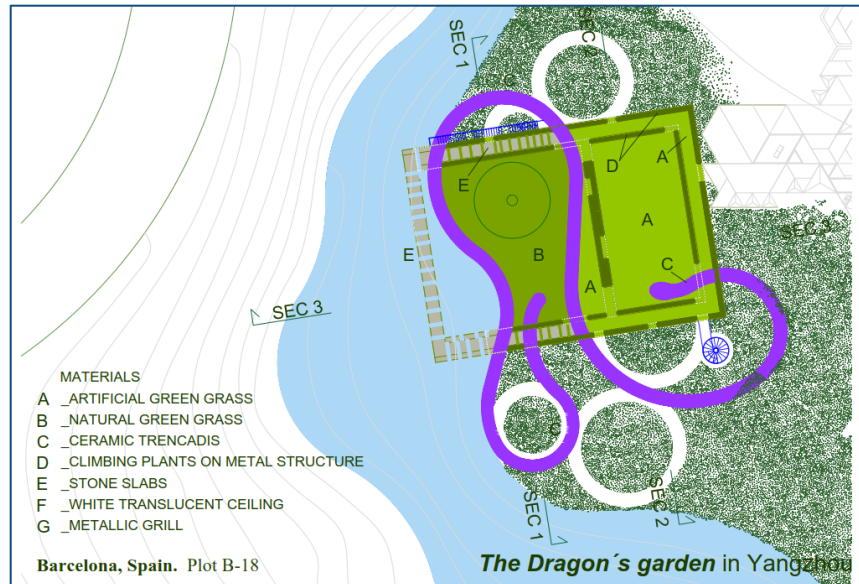
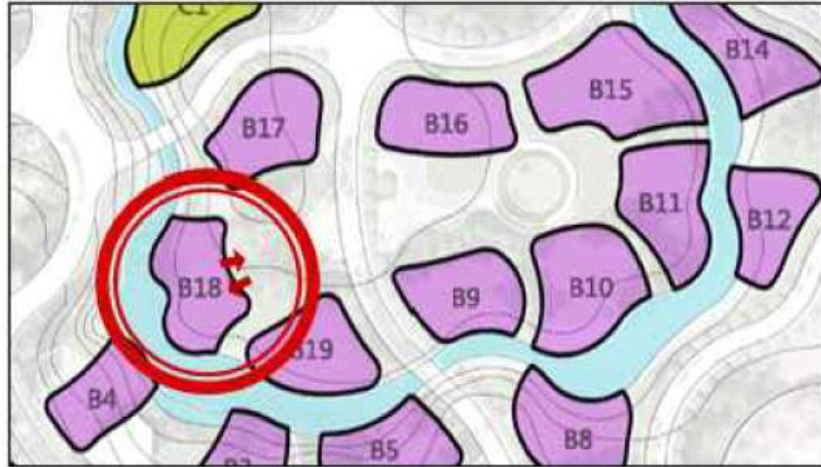
Triple-Helix Methodology



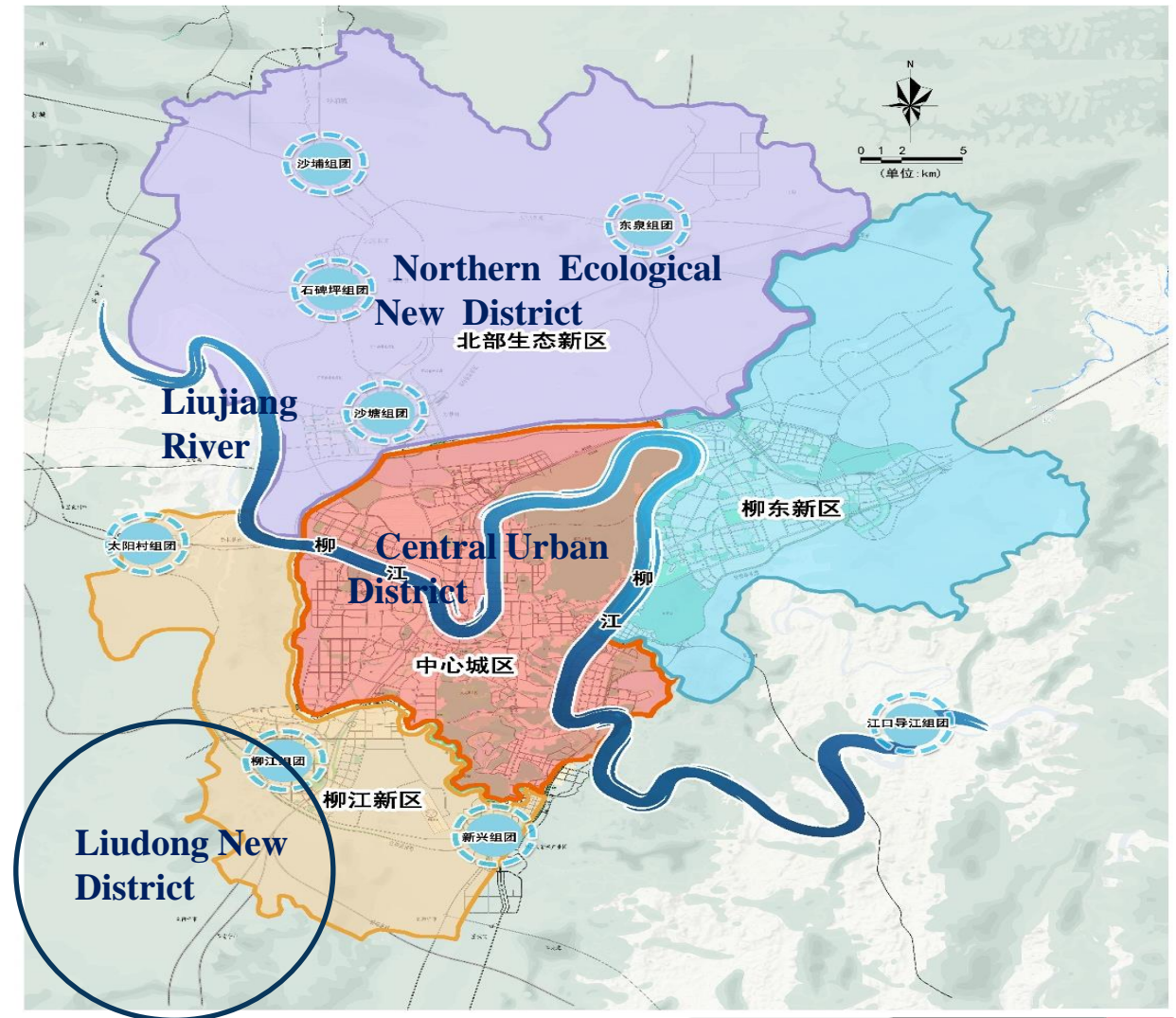
Cooperative Action Plan

- Identify key projects
- Identify key institutions/stakeholders
- Define decision-making mechanism
- Streamline communication
- Develop implementation roadmap
- Project-oriented work
- Self-initiatives

Pilot example 1 – Barcelona, Bologna & Rome in Yangzhou



Pilot Example 2: Barcelona and Liuzhou (Guangxi) – S&T Park



Pilot Example 3: Mannheim – Chongqing Cargo Railway



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EU's IUC Pilot Project Started: Cargo Railway Connection between Mannheim and Chongqing



University Cooperation - Manchester, Rome and Chengdu



V2G/ VPP (cArbitrage)

- Tesla S85 (90kWh,225m) (~ consumption of 10 UK households, see links 1&2 below)
- The key to realising the economic values of V2X is EV control to dispatch energy according to the grid conditions.

The diagram illustrates a V2G/VPP system. It shows a car connected to a charging station, which is connected to a power grid. The grid is represented by a central yellow box labeled 'Control centre'. The grid is connected to various power sources: Wind farm, Solar farm, Hydroelectric plant, and Nuclear power plant. The grid is also connected to a 'Power grid' and a 'Power distribution network'. The diagram shows the flow of energy from the power grid to the car and from the car to the power grid.

1. https://www.ukpower.co.uk/home_energy/average-household-gas-and-electricity-usage

2. https://batteryuniversity.com/learn/article/electric_vehicle_ev

• M. Rozman, in B Adebisi (2019) *Smart Wireless Power Transmission System for Autonomous EV Charging*, IEEE Access, 7, pp.112240-112248

• Y. Sha'aban, A. Ikpehai, B. Adebisi, K. Rabie (2017). *Bi-Directional Coordination of Plug-In Electric Vehicles with Economic Model Predictive Control*, Energies, 10(10), pp.1507-1507.

zoom.us Meeting View Edit Window Help

You are viewing Amer Gaffar - Man... 's screen View Options

FangXuanbo Yagya Regmi Bamidele Adebisi Rebecca Drak... Ilc Pablo Gándara

Manchester Fuel Cell Innovation Centre

Manchester Metropolitan University

Manchester Fuel Cell Innovation Centre

Amer Gaffar, Director

The image shows the Manchester Fuel Cell Innovation Centre logo and a silhouette of the Manchester city skyline. The logo is a stylized flower-like shape. The skyline includes the Manchester Arena and the Old Trafford stadium.

3 CloudIEPS – Cloud Based Integrated Energy Planning Studio

3.4 Software Development

Based on the above simulation method, a cloud-computing platform is developed. An editable environment for network topology is provided so that the Energy-Integrated system can be **visualized**. There are up to **25 types of device** are supported in this platform, such as **gas turbine**, **heat recovery boiler**, **wind-power generator**, **absorption chiller**, etc, so users could design the energy cascade utilization system as what they want.

The screenshot shows the CloudIEPS software interface. It displays a network topology diagram with various components connected by lines. The components include a gas turbine, a heat recovery boiler, a wind-power generator, and an absorption chiller. The interface also shows a list of components and their properties.

Biotechnology: Guangzhou BioTech Island (2014)



- Guangzhou International Biotech Island (**GIBI**), formerly known as Guanzhou Island (or Dove Island), is located in the center of the **Pearl River** in the southeast of Haizhu district, Guangzhou.
- It is an **elliptical island** lying in a northeast-southwest direction, to the east of Guanzhou waterway and to the west of Luntou waterway. Covering an area of **183.18 hectares**, GIBI is the hinterland of biomedical research and development in Guangzhou Development District (GDD) and of the biomedical industry in the strategic layout of "one river-three belts" of the city.

More information here: http://eng.gdd.gov.cn/2018-11/14/c_291190.htm

Chinese City Leaders in Granada – 2018



- In the two-day programme in **Granada**, meetings were held with the City Council, **PTS health tech park**, University of Granada and Chamber of Commerce, to discuss about various cooperation possibilities in the areas of government-to-government exchange, bio medicine and health care, education and training, as well as commercial promotion.
- At the meeting with the Mayor of Granada, all the five visiting Chinese cities signed a **city-to-city cooperation MoU** with Granada. The main purpose of the MoU is to reconfirm the cities' intentions of building friendly relationships and cooperation as pilot cities under the framework of China-EU regional policy cooperation mechanism.

Granada City Leaders & Partners in China – 2018 & 2019



- 2. Technology and Smart City associations of private companies (onGranada, Circulo Tecnológico de Granada and Chamber of Commerce of Granada)
- ✓ Signing of Declarations of Intentions with Liuzhou
- ✓ Develop further cooperation in promotion of technological R&D&I
- ✓ Implementation of Tech & Smart City Pilots Projects in Liuzhou
- ✓ Open a permanent liaison office of Granada Chamber of Commerce in Liuzhou
- ✓ Participation of Liuzhou public and private entities in Granada International Innovation Forum, to be held on November 2019 and organized by Granada Chamber of Commerce
- ✓ Vocational Training

Granada Smart City

International Events: APUF (Malaysia), October 2019



iuc-asia.eu

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NOVEMBER 9, 2020

Webinar "EU-China Cities Transition Towards Low Carbon: Achievements, Challenges and Future Pathways"

The IUC Asia project held today a three-hour workshop on the transition from EU and Chinese cities towards low carbon development. The meeting involved nearly 40 participants - partly onsite in Beijing and partly online (via video conferencing). The event was a follow-up activity to the online exchange session on the EU-China Low Carbon Cities [...]

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NOVEMBER 6, 2020

EU Climate Diplomacy Week Indonesia - Closing Ceremony

The Closing Ceremony for the annual EU Climate Diplomacy Week Indonesia (24 October - 6 November 2020) was held today, in a festive atmosphere with remarks by high-level officials, program partners and a fun lineup of entertainment acts. The online event involved over 250 participants. Opening words were delivered by H.E. Vincent Piket, Ambassador of [...]

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NOVEMBER 5, 2020

Granada Hosts Webinar on Circular Economy and Blockchain Innovations

Today, the City of Granada held its second of three webinars on Circular Economy and Blockchain Innovations with more than 25 experts from Europe and China, as part of its pilot project within the IUC Competitive Fund, awarded to Granada. Today's webinar was opened with words from Luis Gonzalez Ruiz, First Deputy Mayor of Granada responsible [...]

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Where can I obtain more information on EU China Regional and Urban Cooperation?

IUC ASIA Project Website: www.iuc-asia.eu

EU Foreign Policy Instruments https://ec.europa.eu/fpi/home_en

EU Commission DG Regional and Urban Policy http://ec.europa.eu/regional_policy/cooperate/international/index_en.cfm

IUC Global Website: www.iuc.eu