

# EU-CHINA COOPERATION IN URBAN SUSTAINABLE DEVELOPMENT

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**CASA ASIA**

# Chinese and european cities: Challenges

Environment and  
green transition

Inclusive  
growth

Smart  
specialization

Infrastructure  
development

Mobility

Aging  
population



# Areas of possible cooperation

**Innovation, R&D**

**Transport: E-mobility**

**Industry 4.0**

**Clusters**

**Water, energy.**

**E-health**

**Eco-cities and circular economy**

**E-tourism**

## R&D and innovation: EU-China Co-funding mechanism for Research & Innovation

EU-China based partnership under the umbrella of Horizon 2020

Last call of proposals (2018):

- Sustainable urbanisation and surface transport (60 million CNY)
- Green manufacturing, clean energy, health technologies, public security (50 million CNY)

JPI Urban Europe and National Natural Science Foundation of China (NSFC). Sustainable Urbanisation

- Air quality, water and soil, waste management
- Access to safe and sustainable housing, transportation
- Social inclusion, resource efficiency, mitigation and adaptation to climate change.

## E-Mobility: Sino German partnership in Electromobility (2011)

- Implementation at a regional/local level
- NDRC, MIIT, MOST, Beijing Municipality.
- Vehicle charging project
- Harmonisation of standards and regulations (Plugs, etc).

## Industry 4.0 Barcelona-Sasang (Busan)

“La Salle Technova is leading the entire process of technology transfer to SaSang (Busan) based on their experience and of Barcelona as a city with 22 @. This project consolidates La Salle as a reference in the creation of innovative urban ecosystems where architecture, engineering (Internet of Things and Smart Cities) and innovation are valued.

“The delegation visited Park Start Ups linked to industry 4.0 and city management, participated in a Workshop on proposals of 22 @ applied to the case of the SaSang Industrial Complex and have held work meetings to work in areas such as measures to install infrastructures such as car parks and parks, urban management based on IOT, the current situation of industry 4.0 in Barcelona and intelligent technology applied to the manufacturing sector”.

## Clustering: BioXcluster

Biocat (Catalonia, Spain)  
BioM (Bavaria, Germany)  
bioPmed (Piedmont, Italy)  
Lyonbiopole (Rhône Alpes, France)  
Juke Biotech Park (Shanghai, China)  
Zhangjiang Biotech & Pharmaceutical  
Base (Shanghai, China)

## E-health: China's healthcare system

- Data collection, extraction and exchange (e-records)
- Chronical diseases (MIoT).
- Online health services (Remote diagnosis)
- Monitoring systems.
- Wearable devices

## Water and energy

- Operation of water supply.
- Pollution control services
- Water treatment (Re-use of water).
- Integrated water management.
- Energy saving solutions
- Smart grid solutions.

## Eco-cities and circular economy: Eco-cities and SINCERE

### Eco-Cities

- Full recycling cities
- KPI on air quality, water quality, noise, carbon emissions.

### SINCERE (Sino-Europe Circular Economy and Resource Efficiency Project)

- France, Germany, UK/ National Natural Science Foundation of China.

## E-Tourism: C-trip and Madrid/La Rioja

- Main OTA in China (50% market share, 250 million users).
- Chinese tourists evolving
- Specific section to introduce Madrid at C-trip's web page. Portal Madrid.

## Other transversal issues

- Governance (Open data infrastructure, transparency, legal and regulatory policies)
- Stakeholders (Local/federal/central, land developers, ICT providers, transport operators, citizens, etc)
- Funding and financing (PPP, Green bonds, financial and tax incentives, private companies)
- KPI (Green index, smart city index, CO2 emissions, etc).
- Technology and infrastructure (standarts, sensors, cloud): Suppliers, system integrators, etc.