

# JOBS AND SKILLS IN THE LOCAL ECONOMY

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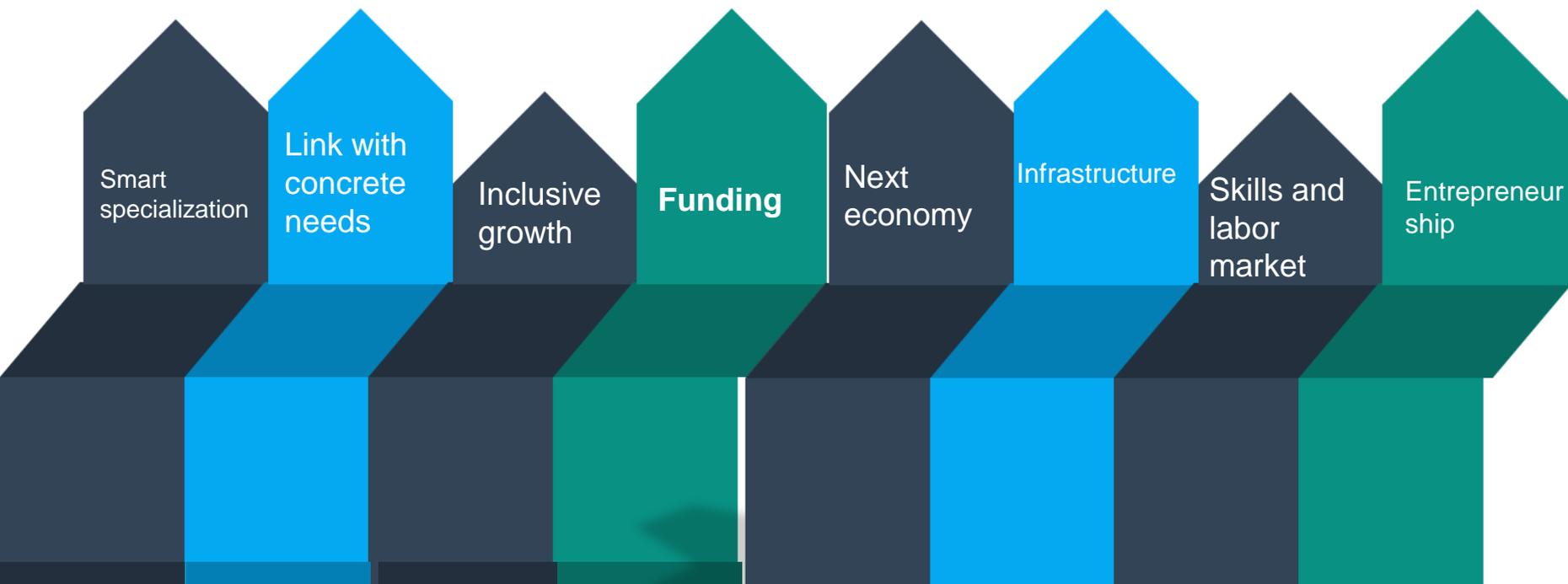
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**CASA ASIA**

# Job and skills in the local economy



# Chinese cities: Challenges

Environment and  
green transition

Social  
protection

Income gap

Migration and  
Hukou system

Aging  
population

Robotization



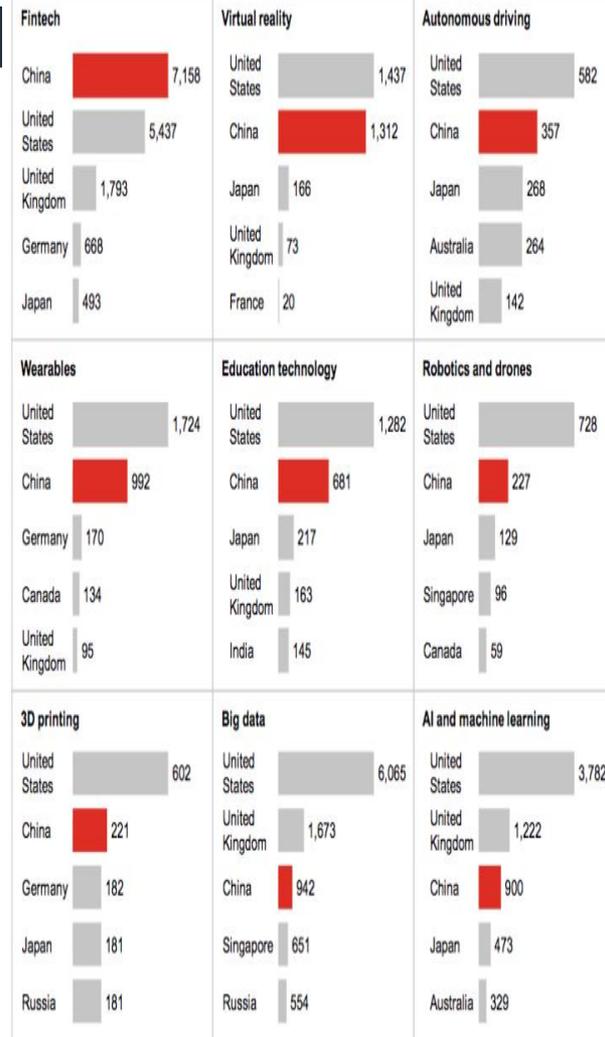
# China's innovation system

## Pros

- Government backup (MOST, TORCH).
- Hi tech zones (156, 40% of R&D investment).
- Local authorities play an important role
- 74% of investment in R&D: private companies
- Venture capital (BAT)

## Cons

- Basic research
- Core technologies (technological readiness)



## Made in China 2025

- Only **10% of chinese manufacturers** have started the transition to the IoT.
- **Only 6% of chinese manufacturers** have a roadmap for Industry 4.0 versus a fifth or more in the US, Germany and Japan (2017)
- Robotics, advanced information technology, aviation, or electric vehicles.
- **70% “self sufficiency”** in core components and basic materials in 2025.



# Areas of possible cooperation



Circular economy



Skills mismatch



Talent (universities,  
research centers, BS)



Clusters

Urban planning (deprived  
areas)

Transport network

Social inclusion

E-government tools

# Support mechanisms

HORIZON 2020

Eu-China co-funding  
mechanism

EDUCATION

700.000 CHINESE ABROAD  
400.000 FOREIGNERS IN  
CHINA

TECHNOLOGY  
COOPERATION

Eu-China business and  
technology fair

CLUSTER COOPERATION

EU  
China Cluster Matchmaking  
Event



# Success cases



22@

ANDALUCIA SMART CITY CLUSTER

SMART CITY EXPO WORLD CONGRESS

ESADE AND IESE

## 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”.

## 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)

## Opportunities for the private sector/SME's

Urban Mobility: Traffic management, security.

Water: Water treatment, sewage, etc

Green Tech: Green buildings, energy efficiency.

Healthcare: Wearable devices, remote diagnosis.

Manufacturing: Robotics, factory automation.