



# EU-CHINA SUSTAINABLE URBANISATION FLAGSHIP INITIATIVE



**STRATEGIC JOINT RESEARCH AND INNOVATION  
ACTIONS TO TURN CHALLENGES INTO  
OPPORTUNITIES FOR GROWTH, JOBS AND BETTER  
LIVING CONDITIONS FOR MILLIONS OF URBAN  
CITIZENS BOTH IN EUROPE AND CHINA.**

**Priority Areas of mutual interest for EU China research and innovation collaboration  
on Sustainable Urbanisation**

**Sustainable Development and Urban Planning  
Nature-based Solutions for Cities  
Green Urban Mobility  
Sustainable Energy Solutions for Cities**

## URBANISATION FLAGSHIP – WORK PROGRAMME 2018-2020

Strategic joint EU-China research and innovation cooperation in sustainable urbanisation is a long standing priority for both sides and it has been pursued with a number of joint projects in FP7 and Horizon 2020. Cooperation for the period 2018-20 will target sustainable urbanisation with nature-based solutions for urban ecosystems and natural treatment solutions for water security in cities. These topics are intended to promote balanced and substantial cooperation between European and Chinese partners.

<b>HORIZON 2020 WORK PROGRAMME 2018-2020</b>	SC5-13-2018: Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems. a) Strengthening EU-China collaboration (2018)	SC5-25-2020: Strengthening EU-China cooperation on sustainable urbanisation: Enhanced natural treatment solutions for water security and ecological quality of water in cities
	LC-MG-1-1-2018: InCo flagship on reduction of transport impact on air quality C) Sensing and monitoring emission in urban road transportation system (China) A) Low-emission oriented driving, management and assistance (China, CELAC)	LC-GV-05-2019:  InCo flagship on "urban mobility and sustainable electrification in large urban areas in developing and emerging economies"

## HORIZON 2020 – EU-CHINA CO-FUNDING MECHANISM (CFM)

The China-EU co-funding mechanism on research and innovation (CFM) cooperation has played a significant role in supporting win-win cooperation since its launch in December 2015. The European Commission and Chinese Ministry of Science and Technology (MOST) agreed the renewal of the CFM for the period 2018-2020 to support joint projects between European and Chinese universities, research institutions and companies. Under CFM the Chinese Ministry of Science and Technology (MOST) will provide financial support on a competitive basis to China-based entities that will participate in joint projects with European partners under Horizon 2020. For the period 2018-2020, MOST intends to reserve an annual budget of up to 200 Million RMB, and the EC intends to reserve a budget of up to 100 Million Euro in Horizon 2020 calls targeting cooperation with China. Sustainable urbanization is among the CFM priorities. China-based participants in projects selected under Horizon 2020 are invited to apply for co-funding from MOST.

## JPI Urban Europe – NSFC Pilot Call: Sustainable and Liveable Cities and Urban Areas

In answer to the global urbanisation challenge, NSFC and JPI Urban Europe have agreed to a long-term cooperation under the strategic theme Sustainable Urbanisation in the Context of Economic Transformation and Climate Change. The [pilot call](#) is a joint initiative of nine European funding agencies participating in JPI Urban Europe and NSFC in China. The call addresses: a) Reduce the

adverse environmental impact of cities, paying special attention to the quality of air, water and soil, and municipal and other waste management; b) Access to safe, affordable, and sustainable housing, transportation and basic services; and c) Integrated policies towards inclusion, resource efficiency, mitigation and adaptation to climate change and resilience to disasters. The call invites researchers from Chinese and European universities, research institutes, research and technology organisations (including municipal research institutes), cities and city planning departments, as well as European companies. The total funding available in this programme is approximately M€ 9.35 on the European side, across the participating European funding agencies. NSFC will fund the Chinese part of all projects ([NSFC call website](#)).

## SUSTAINABLE URBANISATION COOPERATION IN HORIZON 2020 & FP7

Through targeted research and innovation actions in various interrelated topics surrounding cities (transport, environment, energy, urban planning etc.), the EU and China strive for cost-effective, integrated technological and nature-based solutions that provide multiple benefits, resource and energy efficiency, reduce GHG emissions, increase urban resilience to changes, better health and leverage costly problems into opportunities for growth, jobs and better living conditions for millions of urban citizens both in Europe and China.

### TRANS-URBAN-EU-CHINA

Transition towards urban sustainability through socially integrative cities in the EU and in China

<http://transurbaneuchina.eu/>

### URBAN-EU-CHINA

EU-China Innovation Platform on Sustainable Urbanisation

<http://www.urbaneuchina.eu>

### DESTINATIONS

Demonstrating and testing innovative solutions for cleaner and better urban transport and mobility

<http://civitas.eu/destinations>

### SOLUTIONS

Sharing Opportunities for Low carbon Urban transport

<http://www.urban-mobility-solutions.eu/>

### GrowGREEN

Green Cities for Climate and Water Resilience, Sustainable Economic Growth, Healthy Citizens and Environments

<http://growgreenproject.eu/>

### URBAN GreenUP

New Strategy for Re-Naturing Cities through Nature-Based Solutions

<http://www.urbangreenup.eu/>

### SiEUGreen

Sino-European innovative green and smart cities

[https://cordis.europa.eu/project/rcn/212412\\_en.html](https://cordis.europa.eu/project/rcn/212412_en.html)

### URBACHINA

Sustainable urbanisation in China: Historical and comparative perspectives, mega-trends towards 2050

<http://www.urbachina.eu>

### VIAJEO

International demonstrations of platform for transport planning and travel information

<http://www.viajeo.imet.gr/>

### URGENCHE

Urban Reduction of GHG Emissions in China and Europe

<http://www.urgence.eu/>

### CARGOVIBES

Attenuation of ground-borne vibration affecting residents near freight railway lines

<http://cargovibes.eu/home>

### VIAJEO PLUS

International Coordination for Implementation of Innovative and Efficient Urban Mobility Solutions

<http://viajeoplus.eu/>

### CITYZEN

Megacity - Zoom for the Environment

[http://cordis.europa.eu/project/rcn/88854\\_en.html](http://cordis.europa.eu/project/rcn/88854_en.html)

### ISSOWAMA

Integrated Sustainable Solid Waste Management in Asia

<http://www.issowama.net/>

### BURBA

Bottom Up selection, collection and management of Urban waste

[http://cordis.europa.eu/project/rcn/97290\\_en.html](http://cordis.europa.eu/project/rcn/97290_en.html)

### **EURECOMP**

Recycling Thermoset Composites of the SST

[http://cordis.europa.eu/project/rcn/90590\\_en.html](http://cordis.europa.eu/project/rcn/90590_en.html)

### **CASC**

Cities and science communication: innovative approaches to engaging the public

<http://www.eucasc.eu/>

### **SUME**

Sustainable Urban Metabolism for Europe

<http://www.sume.at/>

### **PURGE**

Public health impacts in urban environments of greenhouse gas emissions reduction strategies

<http://purge.lshtm.ac.uk/>

### **CORFU**

Collaborative research on flood resilience in urban areas

<http://www.corfu7.eu/theproject/>

### **WISETRIP**

Wide Scale network of E-systems for Multimodal Journey Planning and Delivery of Trip Intelligent Personalised data

<http://www.wisetrip-eu.org/>

## **THE EU-CHINA URBANISATION FLAGSHIP INITIATIVE BACKGROUND INFORMATION**

Research and innovation forms one of the 5 pillars of the [EU-China Partnership on Urbanisation](#) launched in 2012. [The EU-China Joint Workshop on Urban Innovation](#) held in the city of Foshan in May 2013 focused on topics of common interest surrounding sustainable development and urban planning, green urban mobility, and sustainable energy solution for cities. Sustainable urbanisation has also been confirmed as a joint priority at the EU-China Innovation Cooperation Dialogue.

Through targeted research and innovation actions in various interrelated topics surrounding cities (transport, environment, energy, urban planning etc.), the EU and China strive for cost-effective, integrated technological and nature-based solutions that provide multiple benefits, resource and energy efficiency, reduce GHG emissions, increase urban resilience to changes, better health and leverage costly problems into opportunities for growth, jobs and better living conditions for millions of urban citizens both in Europe and China. With the strong commitment to continue develop the research and innovation pillar of the EU-China Sustainable Urbanisation Partnership a package of actions launched under Horizon 2020 will promote innovative nature-based solutions for sustainable urbanisation. The Co-funding mechanism will provide momentum for a strong Chinese participation in these topics.

### **EU DELEGATION TO CHINA:**

**EU Delegation to China S&T Section:** [Delegation-China-Scitech@eeas.europa.eu](mailto:Delegation-China-Scitech@eeas.europa.eu)

**EU Delegation to China website:** [https://eeas.europa.eu/delegations/china\\_en](https://eeas.europa.eu/delegations/china_en)

**MINISTRY OF SCIENCE AND TECHNOLOGY (MOST):** [www.most.gov.cn](http://www.most.gov.cn)

### **EUROPEAN COMMISSION**

**Directorate-General for Research and Innovation:** <http://ec.europa.eu/research/index.cfm>

**EU-China Research and Innovation Cooperation:** <http://ec.europa.eu/research/iscp/index.cfm?pg=china>



