

# HORIZON 2020 – Work Programme 2018-2020

## Topics related to Cities and Urban Development

(last update 06/12/2017)

[Work Programme 2018-2020](#)

[Horizon 2020 portal](#)

### INDUSTRIAL LEADERSHIP

#### **Nanotechnologies, Advanced Materials, Biotechnology, and Advanced Manufacturing and Processing (NMBP) ([website](#))**

- [LC-EEB-01-2019](#): Integration of energy smart materials in non-residential buildings (IA)
- [LC-EEB-02-2018](#): Building information modelling adapted to efficient renovation (RIA)
- [LC-EEB-03-2019](#): New developments in plus energy houses (IA)
- [LC-EEB-05-2019-20](#): Integrated storage systems for residential buildings (IA)
- [LC-EEB-06-2018-20](#): ICT enabled, sustainable and affordable residential building construction, design to end of life (IA 50%)
- [NMBP-33-2018](#): Innovative and affordable solutions for the preventive conservation of cultural heritage (IA)
- [DT-NMBP-05-2020](#): Open Innovation Test Beds for functional materials for building envelopes (IA)
- [LC-EEB-04-2020](#): Industrialisation of building envelope for the renovation market (IA)

#### **Information and Communication Technology (ICT) ([website](#))**

- [ICT-12-2018-2020](#): Big Data technologies and extreme-scale analytics (CSA)
- [ICT-22-2018](#): EU-China 5G Collaboration (RIA)
- [ICT-32-2018](#): STARTS – The Arts stimulating innovation (CSA)
- [EUJ-01-2018](#): Advanced technologies (Security/Cloud/IoT/BigData) for a hyper-connected society in the context of Smart City (RIA)
- [EUK-01-2018](#): Cloud, IoT and AI technologies (RIA)
- [ICT-39-2020](#): Digital advances for local/urban manufacturing

## SOCIETAL CHALLENGES

### SC1 Health, Demographic Change and Wellbeing ([website](#))

- [SC1-BHC-25-2019](#): Demonstration pilots for implementation of personalised medicine in healthcare (IA)
- [SC1-HCC-04-2018](#): Digital health and care services – support for strategy and (early) adoption (CSA)
- [DT-TDS-01-2019](#): Smart and healthy living at home (IA)

### SC2 – Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy ([website](#))

- [CE-SFS-24-2019](#): Innovative and citizen-driven food system approaches in cities (IA)
- [CE-SFS-25-2018](#): Integrated system innovation in valorising urban biowaste (IA)
- [LC-SFS-34-2019](#): Food Systems Africa (RIA)
- [LC-RUR-11-2019-2020](#): Sustainable wood value chains (IA)
- [\[2020\]](#) Resilient forest systems

### SC3 – Secure, Clean and Efficient Energy ([website](#))

- [LC-SC3-EE-11-2018-2019-2020](#): Aggregation - Project Development Assistance (CSA)
- [LC-SC3-EE-16-2018-2019-2020](#): Supporting public authorities to implement the Energy Union (CSA)
- [LC-SC3-EE-17-2019](#): European City facility - European Cities as key innovation hubs to unlock finance for energy efficiency (CSA)
- [LC-SC3-ES-3-2018-2020](#): Integrated local energy systems (Energy islands) (IA)
- [LC-SC3-ES-8-2019](#): European Islands Facility - Unlock financing for energy transitions and supporting islands to develop investment concepts (CSA)
- [LC-SC3-CC-1-2018-2019-2020](#): Social Sciences and Humanities (SSH) aspects of the Clean-Energy Transition (RIA)
- [LC-SC3-CC-5-2018](#): Research, innovation and educational capacities for energy transition (CSA)
- [LC-SC3-SCC-1-2018-2019-2020](#): Smart Cities and Communities (IA)
- [Public Procurement](#) - 30. Support for the planning and deployment of efficient, low carbon District Heating and Cooling in cities
- [Public Procurement](#) - 32. Support Services for the Covenant of Mayors for Climate and Energy
- [Public Procurement](#) - 34. Support to the European Innovation Partnership on Smart Cities and Communities and its Market Place
- [Delegation Agreement](#) - ELENA (European Local Energy Assistance)
- [2020](#) – 7. Smart Cities and Communities information system
- [Horizon prize](#) for Integrated Photovoltaic System in European Protected Historic Urban districts

## SC4 - Smart, green and integrated transport ([website](#))

- [LC-MG-1-1-2018](#): InCo flagship on reduction of transport impact on air quality. (RIA)
- [LC-MG-1-2-2018](#): Sustainable multi-modal inter-urban transport, regional mobility and spatial planning. (RIA)
- [LC-MG-1-3-2018](#): Harnessing and understanding the impacts of changes in urban mobility on policy making by city-led innovation for sustainable urban mobility (RIA)
- [LC-MG-1-8-2019](#): Retrofit Solutions and Next Generation Propulsion for Waterborne Transport (IA)
- [LC-MG-1-9-2019](#): Upgrading transport infrastructure in order to monitor noise and emissions (RIA)
- [LC-MG-1-10-2019](#): Logistics solutions that deal with requirements of the 'on demand economy' and for shared-connected and low-emission logistics operations (RIA)
- [MG-2-1-2018](#): Human Factors in Transport Safety (RIA)
- [MG-2-6-2019](#): Moving freight by Water: Sustainable Infrastructure and Innovative Vessels (RIA)
- [MG-2-7-2019](#): Safety in an evolving road mobility environment (RIA)
- [MG-2-8-2019](#): Innovative applications of drones for ensuring safety in transport (RIA)
- [MG-3-2-2018](#): The Autonomous Ship (IA)
- [MG-3-3-2018](#): "Driver" behaviour and acceptance of connected, cooperative and automated transport (RIA)
- [MG-4-6-2019](#): Supporting Joint Actions on sustainable urban accessibility and connectivity (ERA-NET)
- [DT-ART-02-2018](#): Support for networking activities and impact assessment for road automation (CSA)
- [DT-ART-04-2019](#): Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all (IA)
- [LC-GV-03-2019](#): User centric charging infrastructure (IA)
- [LC-GV-05-2019](#): InCo flagship on "Urban mobility and sustainable electrification in large urban areas in developing and emerging economies" (IA)
- [LC-GV-09-2020](#): Next generation electrified vehicles for urban use
- [Public Procurement](#) - New mobility patterns in European cities
- [Public Procurement](#) - Support to the development, implementation, monitoring and evaluation of transport research and innovation policy activities
- [Public Procurement](#) - Exploring the possible employment implications of connected and automated driving

## **SC5 - Climate Action, Environment, Resource Efficiency and Raw Materials ([website](#))**

- [LC-CLA-04-2018](#): Resilience and sustainable reconstruction of historic areas to cope with climate change and hazard events (RIA)
- [CE-SC5-03-2018](#): Demonstrating systemic urban development for circular and regenerative cities (IA)
- [CE-SC5-04-2019](#): Building a water-smart economy and society (IA)
- [CE-SC5-07-2018-2019-2020](#): Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes (IA)
- [SC5-12-2018](#): EU-India water co-operation (RIA)
- [SC5-13-2018-2019](#): Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems (RIA)
- [SC5-14-2019](#): Visionary and integrated solutions to improve well-being and health in cities (IA)
- [SC5-19-2018](#): International network to promote cultural heritage innovation and diplomacy (CSA)
- [SC5-20-2019](#): Transforming historic urban areas and/or cultural landscapes into hubs of entrepreneurship and social and cultural integration (IA)
- [SC5-21-2019-2020](#): ERA-NET Cofund action(s) for climate action, environment, resource (ERA-NET)
- [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-CLA-10-2020](#): Innovative nature-based solutions for carbon neutral cities and improved air quality
- [LC-CLA-12-2020](#): Climate resilience of coastal cities
- [Other actions](#) – 2. High Level Expert Group for SRIA on innovating cities
- [Other actions](#) – 6. Educational innovation around nature-based solutions
- [Other actions](#) – 11. Multi-stakeholder design platforms and public-private-people partnerships for sustainable cities

## **SC6: Europe in a changing world – inclusive, innovative and reflective societies ([website](#))**

- [TRANSFORMATIONS-03-2018-2019](#): Innovative solutions for inclusive and sustainable urban environments (CSA in 2018 and RIA in 2019)
- [TRANSFORMATIONS-04-2019-2020](#): Innovative approaches to urban and regional development through cultural tourism (RIA)
- [TRANSFORMATIONS-05-2018](#): Cities as a platform for citizen-driven innovation (CSA)
- [TRANSFORMATIONS-08-2019](#): The societal value of culture and the impact of cultural policies in Europe (RIA)
- [MIGRATION-02-2018](#): Towards forward-looking migration governance: addressing the challenges, assessing capacities and designing future strategies (RIA)
- [MIGRATION-08-2018](#): Addressing the challenge of forced displacement (RIA)
- The European Capital of Innovation Award (iCapital)
- [MIGRATION-05-2020](#): Inclusive and innovative practices for the integration of migrants in urban areas

## **SC7: Secure Societies – Protecting Freedom and Security of Europe and Its Citizens** **([website](#))**

- [SU-INFRA01-2018-2019-2020](#): Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe (IA)
- [SU-INFRA02-2019](#): Security for smart and safe cities, including for public spaces (IA)
- [SU-DRS01-2018-2019-2020](#): Human factors, and social, societal, and organisational aspects for disaster-resilient societies
- [SU-DS04-2018-2020](#): Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches

## **SPREADING EXCELLENCE AND WIDENING PARTICIPATION ([website](#))**

- [WIDESPREAD-02-2016](#): Support to JPI Urban Europe (CSA)

## **SCIENCE WITH AND FOR SOCIETY ([website](#))**

- [SwafS-14-2018-2019](#): Supporting the development of territorial Responsible Research and Innovation (CSA)

Read more on Innovating Cities at DG Research and Innovation:  
[https://ec.europa.eu/research/environment/index.cfm?pg=future\\_cities](https://ec.europa.eu/research/environment/index.cfm?pg=future_cities)