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)
- **EJJ-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)

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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 invalorising 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

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- **CE-SFS-24-2019**: Innovative and citizen-driven food system approaches in cities (IA)
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SC3 – Secure, Clean and Efficient Energy (website)

- **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
SCS - 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-SCS-03-2018**: Demonstrating systemic urban development for circular and regenerative cities (IA)
- **CE-SCS-04-2019**: Building a water-smart economy and society (IA)
- **CE-SCS-07-2018-2019-2020**: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes (IA)
- **SCS-12-2018**: EU-India water co-operation (RIA)
- **SCS-13-2018-2019**: Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems (RIA)
- **SCS-14-2019**: Visionary and integrated solutions to improve well-being and health in cities (IA)
- **SCS-19-2018**: International network to promote cultural heritage innovation and diplomacy (CSA)
- **SCS-20-2019**: Transforming historic urban areas and/or cultural landscapes into hubs of entrepreneurship and social and cultural integration (IA)
- **SCS-21-2019-2020**: ERA-NET Cofund action(s) for climate action, environment, resource (ERA-NET)
- **SCS-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-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: 