

JPI Urban Europe

EUROPEAN HUB FOR URBAN RESEARCH

20 European countries participating and contributing

Goal Strengthen research and innovation in the urbanisation field

Core members

Austria, Belgium, Cyprus, Denmark, Finland, France, Italy, Netherlands, Norway, Sweden, United Kingdom
Germany, Slovenia

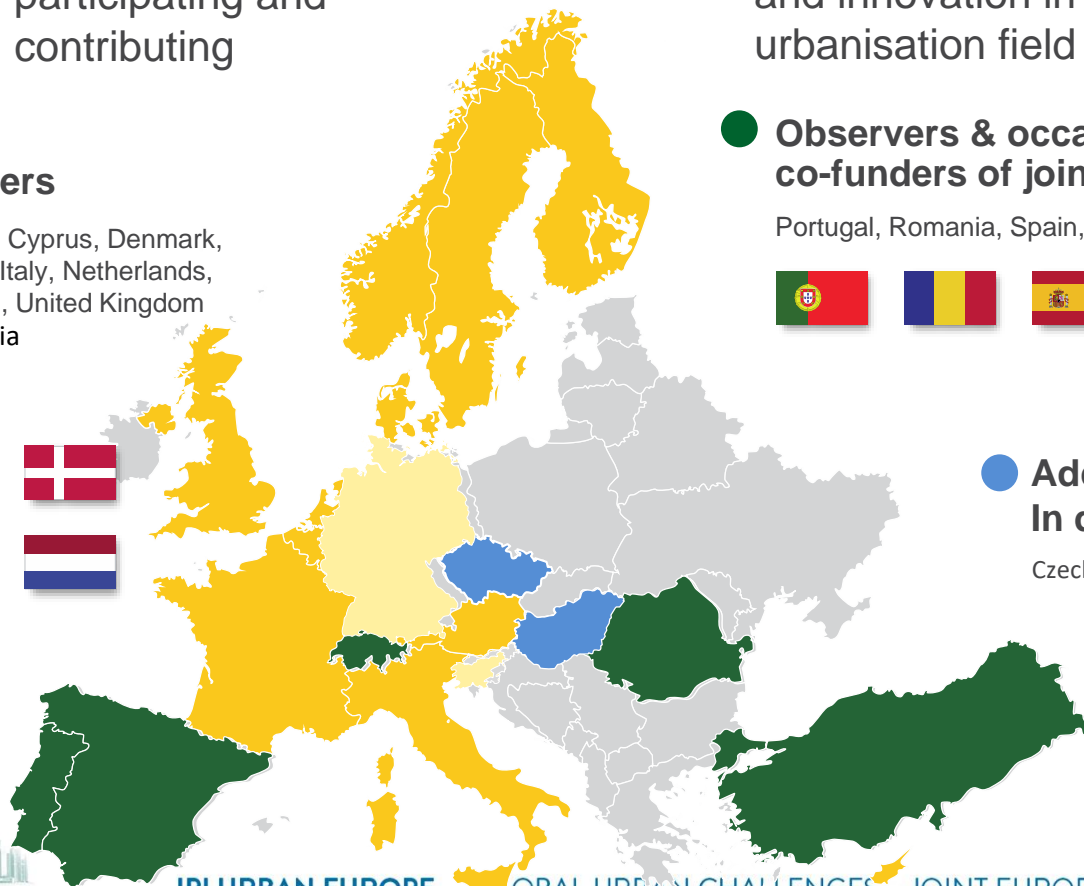
Observers & occasional co-funders of joint calls

Portugal, Romania, Spain, Switzerland, Turkey



Additional partners In dissemination

Czech Republic; Hungary



SRIA - Strategic Research & Innovation Agenda

The research agenda defines urban research priorities for transnational cooperation.

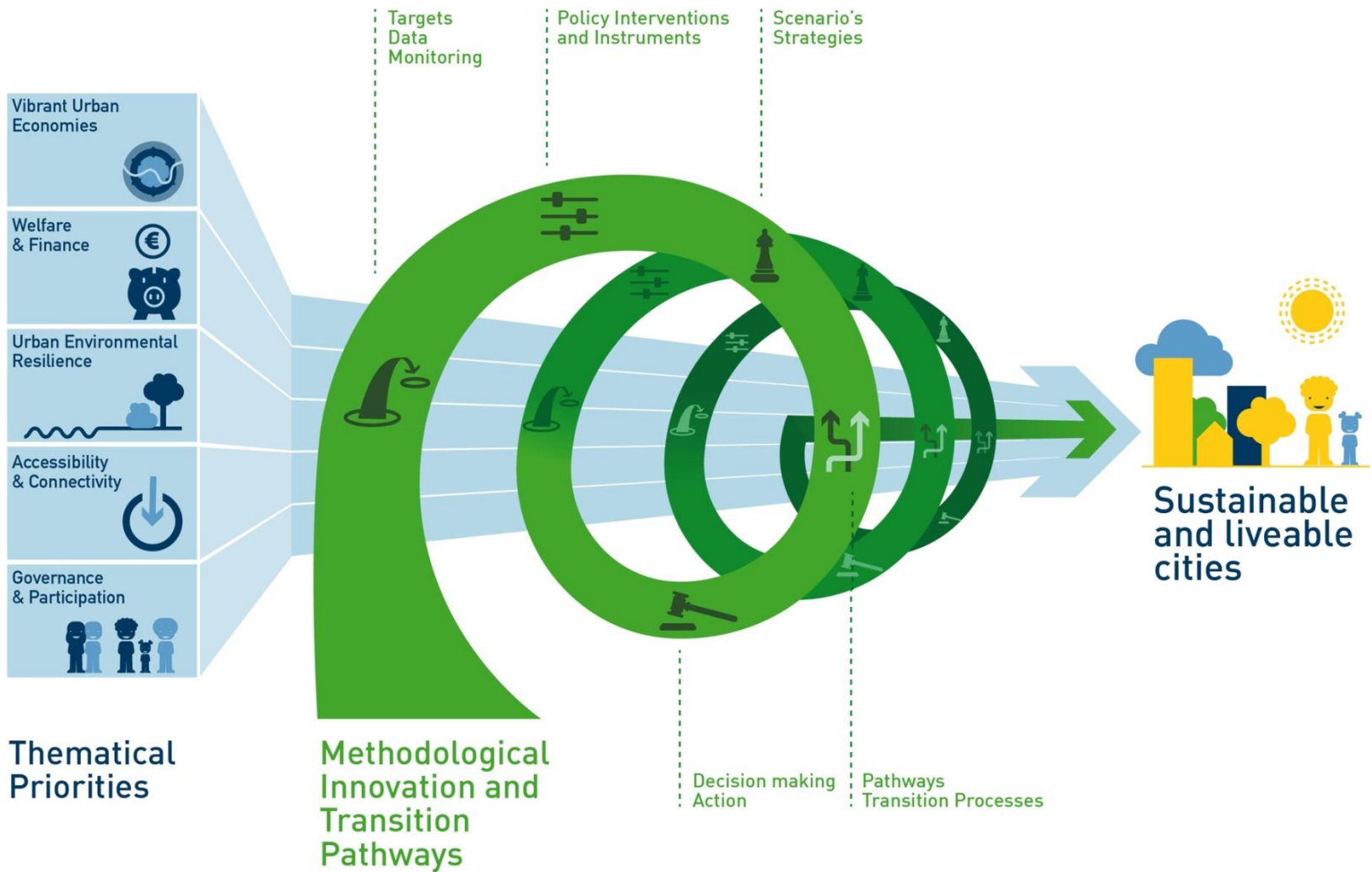
Its ambition is to set the scene for a new paradigm in research, technology development and innovation, embracing the complexity of the grand challenge of urbanization and bridging the innovation space from strategic research to implementation.

The SRIA comprises 5 thematic priorities, which add to the development of essential urban transition pathways:

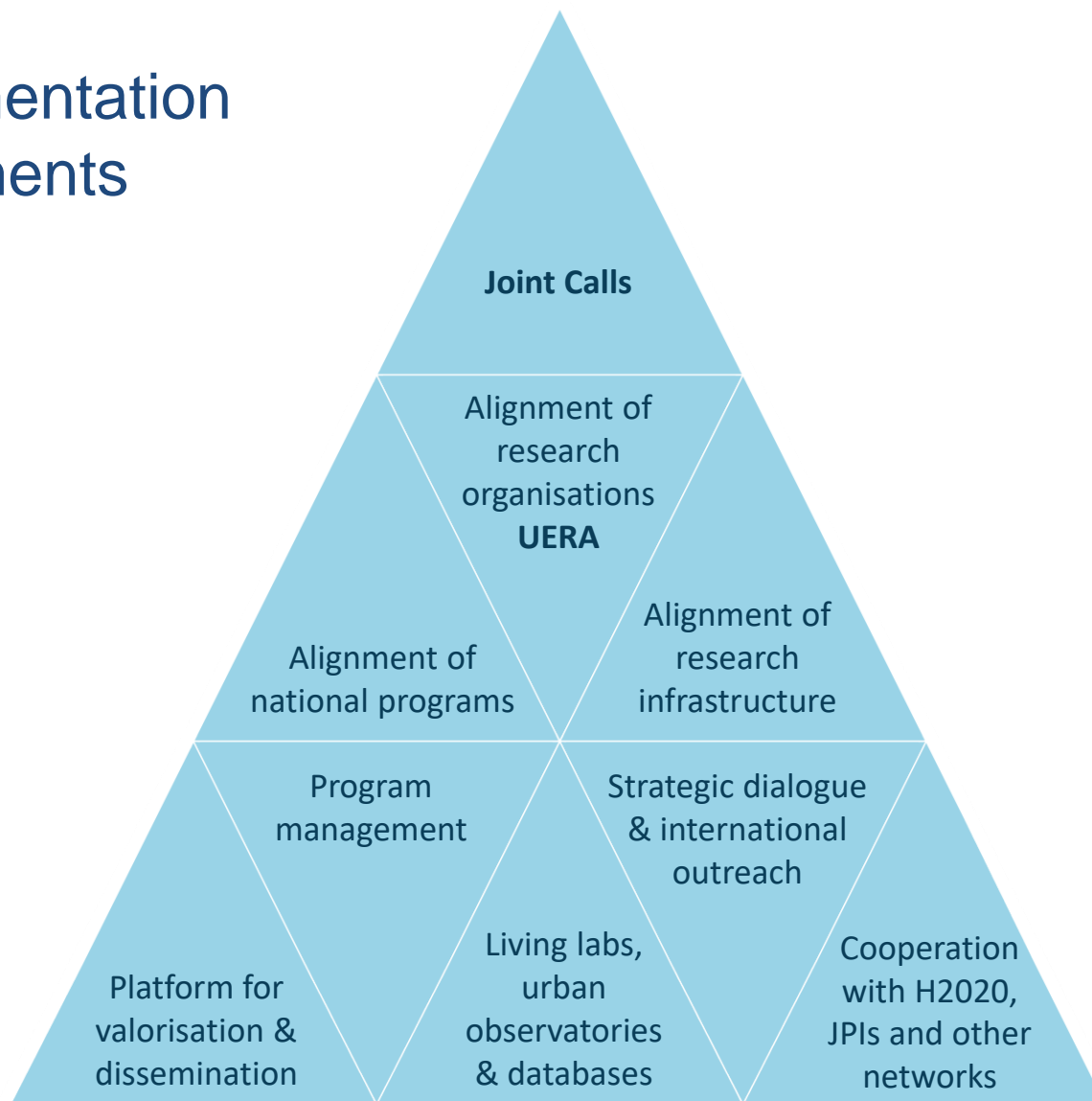
- Vibrant urban economies
- Welfare & Finance
- Urban Environmental Sustainability and Resilience
- Accessibility & Connectivity
- Urban Governance & Participation



Transition towards sustainable and liveable urban futures



SRIA Implementation Instruments



Appels à projets de la JPI UE

- **2012 Joint call I** - Creating attractive, sustainable and economically viable urban areas (*10 projects selected*)
- **2013 Joint call II** - Creating attractive, sustainable and economically viable urban areas (*10 projects selected*)
- **2014 ENSCC** - Era-Net Cofund Smart Cities and Communities (*17 projects selected*)
- **2015 ENSUF** - Era-Net Cofund Smart Urban Futures (*15 projects selected*)
- **2015 CSA call on EU-China innovation platform** on Sustainable urbanisation (*1 proposal supported*)
- **2016 ENSUGI** Era-Net Smart Urbanization & Global Initiative
 - Food-Energy-Water Nexus and sustainable urbanization
 - 22 European partners, 6 international partners (USA, Brasil, Mexico, Japan, Taiwan, Qatar)
 - Joint activity of JPI UE , JPI Climate and Belmont Forum.



2018 Joint Call* - JPI Urban Europe & NSFC (China) on “Sustainable Urbanisation in the Context of Economic Transformation & Climate Change”

The 2018 call paves the way for a longer term collaboration:

- Increase connections between Chinese and European research and innovation communities on urban sustainability;
- Design and test a framework for cooperation and implementation of joint calls;
- Initiate research and innovation projects to support the development of a longer-term roadmap for joint calls and cooperation.

*Draft call: the content is subject to change



Scope and topics

Sustainable and Liveable Cities and Urban Areas Pilot call

SDG 11 a

Climate Change and New Urban Economies

SDG 11 b

Transformation of Energy Systems to Strengthen Urban Circular Economies

SDG 11 c

Urban Public Administration and Services Innovation

Urban data lab

Data Management (urgent)



Climate change and new urban economies

Challenge: *towards more sustainable urban trajectories*

- What systems of incentive policy structures ?
- What determines the vulnerability or resilience of the nature-society system?
- How are long-term trends in urban environments and developments (consumption, production, population development) reshaping nature-society interactions?

Scope

- the role of business model innovation and new urban economies in urban innovation ecosystems
- the strategic spatial planning & socio-technical systems and the consequence scenarios including quality of life and urban equity.
- Knowledge generation on underpinning urban and regional infrastructures (green logistics, energy systems, water resources management)

Expected impact

- Knowledge generation, approaches implementation in cities, capacity building in public administration and innovation ecosystems for urban transitions towards liveable urban areas, and indicators



Transformation of energy systems to strengthen urban circular economies

Challenge

- How to reduce fossil energy use in urban energy systems (ENR, efficiency)?
- How to utilise low carbon transition technologies for existing cities and urban areas?
- How to secure urban energy supply by energy storage and management systems?
- How to support the merging of economic growth & sustainability in a circular economy?

Scope

- Integrated approach to transform energy systems to strengthen urban circular economies (a particular focus on digitalisation).
- Understanding of end-users or demand side for energy efficiency (integrated solutions)

Expected impact

- More efficient and cost-effective renewable and clean energy technologies and systems, strategic deployment of renewable energy for different cities.
- A compact and manageable, safe and cost-effective energy storage and management systems; demand side response energy management on district level.



Urban public administration & services innovation

Challenge

- How to develop the public sector innovation and management approaches to accelerate transitions? (networks, collaboration between different actors)
- How to devise integrated models and planning approaches to tackle disparities?
- What vision of every-day life in a post-carbon society?
- Which institutional development/innovation may accelerate sustainable urbanisation?

Scope

- To increase the knowledge on manageability of current situation and processes (e.g., urban dynamics, decision space, policy initiatives, drivers of current development, carbon budgets ...)
- Integrated management systems involving the sharing of large data resources and collaborative decision-making in multi-sector and multi-industries.

Expected impact

- Approaches and markets for integrated urban development.
- Effective management of urban agglomerations and urban-rural integration to promote ecological civilisation and well-being



Interdisciplinary urban data lab

Challenge

- How to increase the quality and availability of data to support policy making sustainable?
- How to develop big data analysis methods to stimulate the influence of policies, technologies and urban planning practice in cities?
- How to build an indicator system to assess the sustainable urbanisation & liveability?
- How can smart city approaches support urban transformations & unforeseen effects?

Scope

- Contribution to integrated approaches for city developments and knowledge generation.
- This includes testbeds and urban living labs to generate knowledge on practical interfaces in urban management (complex socio-economic system behavior, computational experiments, spatiotemporal correlation data modelling and visualization etc.)
- Open innovation and e-government support systems for urban planning and management.
- Develop platform of data & methods to be shared among R&I actors and practitioners

Expected impact

- SDG indicators and monitoring.
- Integrated approaches to data management for urban sustainable transitions pathways.



Who can participate and apply

- Researchers from Chinese and European universities, research institutes, research and technology organisations (including municipal research institutes),
- Cities and city planning departments,
- Companies.

Eligibility subject to the funding rules of the national funding organisations.

Time schedule

- January 2018 Launch of joint call
- March 2018 Submission deadline pre-registration
- April 2018 Pre-check of eligibility
- June 2018 Submission deadline full proposals
- December 2018 Announcement of results
- January 2019 Start of projects (3 or 4 years)

Funding

- At, Be, Fi, Fr, No, Pl, Ne, Sw, Tu, UK - China
- French funding organisation: ANR with a total amount of 1M€ for 3 to 5 projects



Forthcoming calls

	Focus of joint call	Related H2020 Societal Challenge
2018	Urban Accessibility	SC 4 – Smart, green and integrated transport
2019	Quality of Life	SC 6 – Inclusive, innovative and reflective societies
2020	Urban Transition	SC 5 – Climate action and environment

