



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 618994.

Published by JPI Urban Europe.  
Printed in Stockholm in 2016.

# PRESENTING THE JPI URBAN EUROPE PROJECTS

The purpose of the Joint Programming Initiative Urban Europe is to serve as a hub for urban research and innovation in Europe. The programme aims to enable researchers and urban stakeholders from the business world, the public sector and civil society to join forces with other stakeholders across national borders to participate in joint research and innovation activities and transnational knowledge exchange. Since its inception in 2010, JPI Urban Europe has issued three joint calls, opened a fourth, and so far generated a total of 37 projects funded by 23 funding agencies in 15 countries. The purpose of this Projects Catalogue is to provide an overview of these research projects.



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## JPI URBAN EUROPE

The Joint Programming Initiative Urban Europe is a Member State-led initiative that co-ordinates the urban-related research programmes of the participating countries in order to benefit from the synergies between national and European research programmes.

The aim of JPI Urban Europe is to foster the research, development, and implementation of attractive, sustainable and economically viable urban areas in which European citizens, communities and their surroundings can flourish.

### **The research funded by the JPI Urban Europe focuses on how to:**

- transform urban areas into centres of innovation and technology,
- ensure social cohesion and integration,
- reduce ecological footprints and enhance climate neutrality, and
- exploit technological solutions to achieve efficient and sustainable urban systems and networks (mobility, energy, water, ICT, etc.)

## THE STRATEGIC RESEARCH AND INNOVATION AGENDA

Launched in September 2015, the Strategic Research and Innovation Agenda (SRIA) describes the long-term strategy and programme for JPI Urban Europe from 2015-2020. It includes priorities, actions, instruments, resources and an implementation timeline.

The research and innovation agenda defines urban research priorities for transnational co-operation. It aims to lay the groundwork for a new paradigm in research, technological development and innovation that embraces the complexity of the grand challenge of urbanization and bridges the innovation space from strategic research to implementation. The SRIA comprises five thematic priorities, which contribute to the development of essential urban transition pathways:

- Vibrant Urban Economies
- Welfare and Finance
- Urban Environmental Sustainability and Resilience
- Accessibility and Connectivity
- Urban Governance and Participation

## JPI URBAN EUROPE CALLS

Since its inception in 2010, JPI Urban Europe has prepared and processed three joint calls, Pilot Calls I and II, and ERA-NET Cofund Smart Cities and Communities. A fourth call, ERA-NET Cofund Smart Urban Futures, opened in December 2015. The projects presented in this Projects Catalogue all derive from the first three calls.

In the first three calls, a total of 23 funding agencies have so far jointly financed 37 research projects with a total budget of MEUR 41.7, including MEUR 5.5 in top-up funding from the European Commission. In the first two pilot calls only national funding from the participating funding agencies was made available, whereas the third and fourth calls are ERA-NET Cofund calls, which means that additional funding from the European Commission and the Horizon 2020 framework was made available available on top of the national funding.

Although the detailed requirements of the calls have changed on a general level, all JPI UE calls are open to researchers, practitioners, innovators, cities, municipalities, consumers, companies, NGOs, research institutions and other stakeholders dedicated to the development of European urban areas. Project consortia should consist of at least three eligible applicants from at least three participating countries, and partners from third countries are welcome to join a consortium but will need funding from alternative sources.

### **Improving the Call Instruments**

JPI Urban Europe has established procedures for structured feedback of the lessons learned from experiences during previous calls when establishing procedures for upcoming calls. As is the case with the other activities in JPI Urban Europe, operating the calls is an exploratory process based on continuous efforts to feed in best practices from all participating national funding agencies and step-by-step to establish formats and procedures that match particular JPI Urban Europe aims and contexts, i.e. to support transnational, transdisciplinary, integrated research projects and to encourage experimental approaches.

Achieving a balance between strategic, curiosity-driven research projects on the one hand and challenge-driven innovation-oriented projects on the other is a long-standing aim. Extending the time between call announcements and deadlines for proposals is yet another ambition, as this will allow all parties sufficient time to find partners and form consortia across national borders, as well as reducing the administrative burden on the applicants.

## CALL DETAILS

### The First JPI Urban Europe Pilot Call

The First JPI Urban Europe Pilot Call opened in June 2012 with a deadline for proposals two months later in September. The call was a one-phase call only. A total of 56 proposals were submitted, of which 10 were selected at a total budget of MEUR 9.8. The topics of the first call were: Urban Diversity and Social Cohesion; Urban Systems and Networks; Governance of Complex Urban Systems.

### The Second JPI Urban Europe Pilot Call

The second pilot call was a two-stage call. The call opened in June 2013, with a deadline for pre-proposals in September and a deadline for full proposals in January 2014. A total of 145 pre-proposals were submitted. As was the case in Call 1, 10 proposals were selected with a total budget of MEUR 10.6. The topics of the second call were: Governance of Urban Complexity; Urban Vulnerability, Adaptability, and Resilience.

### ERA-NET Cofund Smart Cities and Communities (ENSCC)

The third call, ERA-NET Cofund Smart Cities and Communities (ENSCC), took place through a joint effort with the Smart Cities Member States Initiative supported by the European Commission under the Horizon 2020 programme. It was a two-stage call that opened in December 2014 with a deadline for pre-proposals in March 2015 and deadline for full proposals in September 2015. The call was pre-announced through several channels as early as September 2014 in order to allow more time to approach relevant consortia.

The call focused on innovation and implementation of integrated low-carbon energy and transport systems on an urban scale, with a mandatory demand to include innovation and implementation activities, which entailed higher entry barriers for potential project partners compared to the previous pilot calls. The call topics were: Smart Integrated Urban Energy and Transport Systems; Smart Tools and Services for Integrated Urban Energy and Transport Systems; Smart Data, Big Data; Smart Governance and Smart Citizens.

### ERA-NET Cofund Smart Urban Futures (ENSUF)

The fourth call, ERA-NET Cofund Smart Urban Futures (ENSUF) is also a two-phase call supported by the European Commission. The call opened in December 2015 with a deadline for pre-proposals in March 2016 and deadline for full proposals in September 2016. The call focuses on three topics: Concepts and Strategies for Smart Urban Transformation, Growth and Shrinkage; New Dynamics of Public Services; Inclusive, Vibrant and Accessible Urban Communities.

## CALL TOPICS ADDRESSED

The table below shows the call topics in the three first calls and which topics were addressed by projects funded by each funding agency. The funding agencies did not impose any restrictions on which topic(s) could be funded, i.e. the distribution of funding amongst the call topics is due to other factors.

| Country     | Funding Agency | Call I                              |                            |                                     | Call II                        |  | ENSCC   |  |                      |                                     |
|-------------|----------------|-------------------------------------|----------------------------|-------------------------------------|--------------------------------|--|---|--|----------------------|-------------------------------------|
|             |                | Urban Diversity and Social Cohesion | Urban Systems and Networks | Governance of Complex Urban Systems | Governance of Urban Complexity | Urban Vulnerability, Adaptability and Resilience | Smart Integrated Urban Energy and Transport Systems | Smart Tools and Services for Integrated Urban Energy and Transport Systems | Smart Data, Big Data | Smart Governance and Smart Citizens |
| Austria     | FFG            | ●                                   | ●                          | ●                                   | ●                              | ●  | ●   | ●  | ●                    | ●                                   |
| Belgium     | FWO            |                                     |                            |                                     | ●                              | ●  |   |  |                      |                                     |
|             | DGO6           |                                     |                            |                                     | ●                              | ●  |   |  |                      |                                     |
|             | FNRS           |                                     |                            |                                     | ●                              | ●  |   |  |                      |                                     |
|             | Innoviris      |                                     |                            |                                     | ●                              | ●  |   | ●  |                      | ●                                   |
|             | IWT            |                                     |                            |                                     | ●                              | ●  |   |  |                      |                                     |
|             | SPW            |                                     |                            |                                     | ●                              | ●  |   |  |                      |                                     |
| Cyprus      | RPF            |                                     |                            |                                     | ●                              | ●  | ●   |  | ●                    |                                     |
| Denmark     | DCSR           | ●                                   | ●                          | ●                                   | ●                              | ●  |   |  |                      |                                     |
| Finland     | TEKES          | ●                                   | ●                          | ●                                   |                                |  |   | ●  |                      |                                     |
| Italy       | MIUR           |                                     |                            |                                     | ●                              | ●  |   |  |                      |                                     |
| Netherlands | NWO            |                                     | ●                          |                                     | ●                              | ●  | ●   | ●  | ●                    | ●                                   |
|             | Dinalog        | ●                                   | ●                          | ●                                   |                                |  |   |  |                      |                                     |
| Norway      | RCN            |                                     |                            |                                     | ●                              | ●  | ●   | ●  |                      | ●                                   |
| Portugal    | FCT            |                                     |                            |                                     |                                |  |   | ●  |                      |                                     |
| Romania     | UEFISCDI       |                                     |                            |                                     |                                |  | ●   |  |                      |                                     |
| Spain       | CDTI           |                                     |                            |                                     |                                |  | ●   | ●  | ●                    | ●                                   |
| Sweden      | Formas         | ●                                   | ●                          | ●                                   | ●                              | ●  |   |  | ●                    |                                     |
|             | SWEA           |                                     |                            |                                     | ●                              | ●  | ●   | ●  | ●                    |                                     |
|             | Vinnova        | ●                                   | ●                          | ●                                   |                                |  | ●   | ●  | ●                    |                                     |
| Switzerland | DETEC          |                                     |                            |                                     |                                |  | ●   | ●  | ●                    | ●                                   |
| Turkey      | TÜBİTAK        | ●                                   | ●                          | ●                                   | ●                              | ●  | ●   | ●  |                      |                                     |
| UK          | ESRC           |                                     |                            |                                     | ●                              | ●  |   |  |                      |                                     |

## PROGRAMME MANAGEMENT

Through the joint calls, JPI Urban Europe continuously expands its portfolio of ongoing and completed research projects. In order to achieve the maximum value from the funded projects and exploit the results of other activities, JPI Urban Europe has initiated continuous and dedicated programme management.

As a result of the calls and other SRIA implementation activities, a growing number of people that are directly involved as project partners, in addition to potential stakeholders, will benefit from the results of the research and innovation activities in terms of the daily practices that they apply to transform their cities. Programme management will allow them to form a dedicated Urban Europe research and innovation community, provide support that enables the implementation of results, and establish thematic networks and synergies amongst projects and partners.

From a strategic perspective, programme management caters for the comprehensive management of the JPI Urban Europe portfolio by ensuring that future actions are underpinned by results from previous projects and by identifying barriers and the need for new approaches in funding and programming.

Annual meetings that gather all JPI Urban Europe projects for strategic discussions and knowledge exchange are important forums for achieving these aims.

### Communicating and Disseminating Results

The JPI Urban Europe website is the hub of all communication in the programme. Information about calls, projects and events are available at the website. Social media and audiovisual communication are becoming an increasingly important means of reaching out to and communicating with a steadily growing community of stakeholders from research and academia, urban stakeholders from the business world, the public sector and civil society, and national agencies, as well as European institutions and organisations. When the projects that derived from the first calls are nearing completion and starting to present their results, it will create opportunities to group projects for joint activities geared towards identified target groups in this community.



### Clustering Projects

One starting point for programme and portfolio management is to identify commonalities amongst the projects in the different calls that will enable cross-cutting analysis. All the projects in this catalogue have therefore been categorised on the basis of the five thematic priorities of the SRIA, whose aim is to guide the research and innovation priorities of JPI Urban Europe until 2020.

This clustering is provisionally based due to the fact that most of the research projects are broad in scope, i.e. they both connect and interrelate different thematic priorities rather than fitting neatly into one of the thematic categories. However, this initial overview will provide a first indication of where important contributions from ongoing projects can be expected and how networking and joint activities amongst the projects can be facilitated. The initial clustering in the catalogue will be followed by in-depth analysis across the thematic categories and calls that will identify potential knowledge gaps and prioritised themes for future calls.

## THEMATIC PROJECT CATEGORIES

### VIBRANCY IN CHANGING ECONOMIES

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## VIBRANCY IN CHANGING ECONOMIES

Cities are engines of economic growth and the places where innovations emerge, yet some cities are more successful economically than others. Vibrancy and economic performance are closely related to population dynamics in terms of growth and shrinkage. Although the urban portion of Europe's population is not expected to grow significantly, there is and will likely continue to be significant migration from cities with shrinking economies to those with growing economies. Hence new strategies are necessary to support shrinking cities and prevent excessive decline, as well as to enable cities to benefit from increasing levels of cultural diversity. In broad terms, we need to find new ways of achieving and sustaining socio-economic vibrancy and equality in cities with changing economies.



## IMAGINATION

Migration from Central and Eastern European (CEE) countries has evolved into one of the main migration flows within Europe. CEE migrants are EU citizens and their mobility can be seen as a form of socio-economic participation on the European labour market. This project raises the question what the consequences are of this type of mobility for urban cohesion and urban policies. The aim of this project is to enhance the theoretical and practical understanding of how urban regions can cope with the implications of CEE migration.

### **IMAGINATION – Urban Implications and Governance of CEE migration**

**Duration:** 2013–2016

**Internet:** [www.project-imagination.eu](http://www.project-imagination.eu)

**Contact:** Prof. Dr. G.B.M. Engbersen, Erasmus University Rotterdam

**E-mail:** [engbersen@fsw.eur.nl](mailto:engbersen@fsw.eur.nl)

**Budget:** 1.176.055 EUR

**Partners:** Austrian Academy of Sciences, University of Gothenburg, Koç University, Erasmus University Rotterdam



## Gentrification 2.0

Inner-city neighbourhoods are often charged a double task; firstly nurturing creative socio-economic places yielding new practices of wealth creation and secondly, lessening social polarisation by constituting places of social and ethnic integration. Building on assemblage theory, Gentrification 2.0 adopts an thoroughly interdisciplinary approach to understanding how different social, economic and spatial processes (problems and potentials) come together in shaping neighbourhoods. A core thesis is, that despite the many critiques, gentrification remains an important strategic concept. If well elaborated and supported, the concept of gentrification can contribute to new approaches towards neighbourhood development, improving vital social, economic and spatial qualities.

### **Gentrification 2.0**

**Duration:** 2013–2016

**Internet:** [www.beyondgentrification.com](http://www.beyondgentrification.com)

**Contact:** Dr. Arnoud Lagendijk, Radboud University Nijmegen

**E-mail:** [a.lagendijk@fm.ru.nl](mailto:a.lagendijk@fm.ru.nl)

**Budget:** 860.975 EUR

**Partners:** University of Vienna, Middle East Technical University, Raumdaten GmbH Zurich, Radboud University Nijmegen

## Resilient Cities

Many urban regions in Europe have been hit hard by the economic crisis, but some regions have been more resilient than others. The question is why. This project investigates how European regions have responded to economic shocks, how successful they have been in developing new industries, and whether economic resilience goes hand in hand with increased social well-being. Furthermore there will be researched if regions that are strongly linked with other regions are more resilient, and which institutions and policy approaches have been more beneficial. These questions are investigated in quantitative analyses of regions in EU27, and a more in-depth analysis of 6 regions.

### **Resilient Cities – Industrial Network and Institutional Perspectives on Economic Growth and Well-being**

**Duration:** 2014–2017

**Internet:** [www.jpi-urbaneurope.eu/resilient-cities](http://www.jpi-urbaneurope.eu/resilient-cities)

**Contact:** Prof. Dr. Frank van Oort, Utrecht University

**E-mail:** [f.g.vanoort@uu.nl](mailto:f.g.vanoort@uu.nl)

**Budget:** 1.043.730 EUR

**Partners:** London School of Economics, Lund University, Erasmus University Rotterdam, Utrecht University

NB: Financial figures presented in the catalogue may be subject to change.

## G@together

G@together aims to support cities in becoming more competitive, innovative business locations by seizing existing potentials of highly qualified but disadvantaged groups with regards to labour market participation. By involving relevant stakeholders in Vienna and Istanbul, this project will research, develop and display measures that foster equal opportunities and inclusion on urban labour markets. This will form the basis for an innovative online platform marked by high usability and accuracy for both job seekers and potential employers. G@together aims at developing suitable ways to reveal and use existing potential on urban labour markets and alleviate the phenomenon of 'brain waste' and shortages in skilled labour by facilitating the match of the target groups. The close collaboration with the end-users and the interdisciplinary, innovative approach ensure an outcome that precisely addresses the needs of (city) stakeholders.

### **G@together – Get together without barriers?**

– **conceptualizing a platform solution for fostering inclusion on urban labour markets**

**Duration:** 2013–2015

**Internet:** [www.jpi-urbaneurope.eu/project-gtogether](http://www.jpi-urbaneurope.eu/project-gtogether)

**Contact:** Mag. Andreas Schadauer, ZARA Zivilcourage und Anti-Rassismus-Arbeit

**E-mail:** [andreas.schadauer@zara.or.at](mailto:andreas.schadauer@zara.or.at)

**Budget:** 510.165 EUR

**Partners:** ZARA Zivilcourage und Anti-Rassismus-Arbeit, Istanbul Bilgi University

## Incubators

The Incubators of Public Spaces provide the means to grow and care for places. What makes a place is the integration of spatial forms, built and open, that favours the interactions of people as they inhabit those spaces. In an Incubator, you can go online or join a public meeting, to easily shape your own scenario for the place, with clear and simple 3D models of spaces – as expected to be: flying through and walking around, exploring and making changes. Then, crowdfund the scenario, to provide your support, revamping the city as enjoyably as buying a book online.

### **Incubators of Public Spaces**

**Duration:** 2014–2017

**Internet:** [www.jpi-urbaneurope.eu/incubators](http://www.jpi-urbaneurope.eu/incubators)

**Contact:** Luca Caneparo, Politecnico di Torino

**E-mail:** [luca.caneparo@polito.it](mailto:luca.caneparo@polito.it)

**Budget:** 995.481 EUR

**Partners:** Innovation Service Network GmbH (ISN), Katholieke Universiteit Leuven, Neurovation GmbH, University College London, City of Torino, Politecnico di Torino

## WELFARE AND FINANCE

The result of post-2008 austerity measures has been a reduction in the provision of public services and the size of the welfare state, while civil society is increasingly being stimulated to fill the void through grassroots voluntary initiatives. This has led to a change in the role of public services and a need to redefine how community-based activities and collaboration can contribute to society. It has also resulted in a call for new business models to finance sustainable urban transitions. This thematic priority aims to clarify the role of social entrepreneurship, local economies and shared economies, and the frameworks that are required to tap into the full potential of these opportunities.



## SubUrbanLab

The overall aim of this project is to examine how suburbs in less valued areas can be modernised and socially uplifted by working together with the residents and other stakeholders. In this way these suburbs can be turned into more attractive, sustainable and economically viable urban areas. The project sets up urban living labs in two less valued suburbs in Sweden and Finland as a means to develop new forms of involving the residents and stakeholders in an urban context.

**SubUrbanLab – Social uplifting and modernization of suburban areas with Urban Living Lab approach**

**Duration:** 2013–2016

**Internet:** [www.jpi-urbaneurope.eu/suburbanlab](http://www.jpi-urbaneurope.eu/suburbanlab)

**Contact:** Riikka Holopainen, VTT Technical Research Centre of Finland Ltd.

**E-mail:** [riikka.holopainen@vtt.fi](mailto:riikka.holopainen@vtt.fi)

**Budget:** 1.010.000 EUR

**Partners:** IVL Swedish Environmental Research institute, Botkyrka Municipality, City of Riihimäki, VTT Technical Research Centre of Finland Ltd.



## SimsCity ValueCap

To regenerate European cities, urban transformation (like the redevelopment of brownfield sites or docklands) has become a powerful, but often also problematic strategy. Anticipating less public sector involvement, this project seeks to develop innovative development strategies and tools that promote and stimulate the collaboration of e.g. property owners, residents, retailers and companies in taking the initiative for urban transformation themselves. Examples of these strategies include business improvement districts and urban land readjustment. We call this the self-organizing city. The researchers will conduct experiments with planning practitioners and other stakeholders to investigate possibilities of international policy transfer within Europe, of successful strategies that are used in one country to be used in other countries as well.

**SimsCity ValueCap – Simulations for Innovative Mechanisms for the Selforganizing City: testing new tools for Value Capturing**

**Duration:** 2014–2017

**Internet:** [www.jpi-urbaneurope.eu/simscity-valuecap-second-call](http://www.jpi-urbaneurope.eu/simscity-valuecap-second-call)

**Contact:** Prof. Erwin van der Krabben, Radboud University Nijmegen

**E-mail:** [e.vanderkrabben@fm.ru.nl](mailto:e.vanderkrabben@fm.ru.nl)

**Budget:** 1.429.939 EUR

**Partners:** University of Liverpool School of Environmental Sciences, Norwegian University of Life Sciences, University of Liège, Radboud University Nijmegen

## ResSegr

Residential segregation, or the physical separation of groups into different neighbourhoods, may have negative effects, such as decreased chances on the labour market among minority groups. There is however no accepted standard for segregation measurement, mostly as the geographical areas concerned differ much in size and distribution. In the project an innovative measure of segregation is proposed, where neighbourhoods are defined based on individuals instead of being based on administrative borders. The new measures of socio-economic and ethnic segregation will be comparable across cities and countries, and may be used by academics and practitioners in order to combat segregation and its negative effects.

**ResSegr – Residential segregation in five European countries  
A comparative study using individualized scalable neighbourhoods**

**Duration:** 2014–2017

**Internet:** [www.residentialsegregation.org](http://www.residentialsegregation.org)

**Contact:** Karen Haandrikman, Stockholm University

**E-mail:** [karen.haandrikman@humangeo.su.se](mailto:karen.haandrikman@humangeo.su.se)

**Budget:** 1.645.990 EUR

**Partners:** Stockholm University, Vrije Universiteit Brussel, Netherlands Interdisciplinary Demographic Institute, University of Oslo, Statistics Denmark



## Interethnic Coexistence in European Cities

This project is based on a systematic comparison of the aims, structural features and outcomes of neighbourhood development programmes in Amsterdam, Vienna and Stockholm. The main project goal is to initiate an evaluation and exchange of good practice between the three distinct European cities. Results can be used and implemented in municipal policies aimed at creating integrative neighbourhoods.

### **Interethnic Coexistence in European Cities – A comparative and applied oriented analysis of neighbourhood-related policies**

**Duration:** 2013–2017

**Internet:** [icecproject.com](http://icecproject.com)

**Contact:** Dr. Yvonne Franz, Austrian Academy of Sciences

**E-mail:** [yvonne.franz@oeaw.ac.at](mailto:yvonne.franz@oeaw.ac.at)

**Budget:** 1.444.856 EUR

**Partners:** University of Amsterdam, Municipality of Amsterdam, KTH Royal Institute of Technology, Stockholm County Council, Klerings Architekten Ziviltechniker GmbH, Wohnbauvereinigung für Privatangestellte GmbH representing the Urban Renewal Office for the Districts 6, 14, 15 of Vienna, HuB Architekten ZT KG representing the Urban Renewal Office for the Districts 7, 8, 16 of Vienna, Office for the Districts 7, 8, 16 of Vienna, Austrian Academy of Sciences

## ENVIRONMENTAL SUSTAINABILITY AND RESILIENCE

Cities are subject to external and internal influences that can have a transformative impact on their well-being, as well as on the well-being of humans. In this age of globalization, climate change and cultural diversity, modern cities need to be agile and able to accommodate and respond proactively to disruptive events. Water quality, air quality and the resilience of ecosystem services are issues that cities must address in order to remain attractive and vibrant. This calls for new approaches to the infrastructural and regulatory changes required to manage urban transitions that arise from these issues.



## DESENT

The success of smart city development needs integrated solutions on energy, transport, service and governance with the full involvement of multiple stakeholders, governments, enterprises, citizens, etc. DESENT is such a project focusing on providing a smart decision support tool for urban energy and transport by developing innovative approaches and utilising cutting-edge technologies using co-creation. The consortium which integrates top universities, research institutes, enterprises and private companies, will tackle the various challenges by developing/implementing the innovative solutions in demo cities. DESENT will support smart decision making for policy makers and personalised services for citizens.

### **DESENT – Smart decision support system for urban energy and transportation**

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/desent](http://www.jpi-urbaneurope.eu/desent)

**Contact:** Univ. Prof. Dr. Harry Timmermans, Eindhoven University of Technology

**E-mail:** [h.j.p.timmermans@tue.nl](mailto:h.j.p.timmermans@tue.nl)

**Budget:** 1.352.380 EUR

**Partners:** Eindhoven University of Technology, 4ward Energy Research GmbH, Weizer Energie- Innovations- Zentrum GmbH, Reiterer & Scherling GmbH, City of Weiz, City of Helmond, SINTEF Energy Research, City of Steinkjer

## CODALoop

There is tremendous urgency for reducing cities' energy footprint through behavioral change. However, we hardly know how to enable individuals to learn how to behave energy responsibly in their daily lives. This project combines information, cognitive and social sciences into a real-life experiment in urban neighborhoods. It will provide: a) a deeper understanding of learning and behavioral change to reduce energy consumption in an urban setting; b) a tested prototype of an interactive web-based platform for sharing data about individual and community energy consumption choices; c) a tailored set of policy and market recommendations for the wider application of this platform.

### **CODALoop – Community Data-Loops for energy-efficient urban lifestyles**

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/codaloop](http://www.jpi-urbaneurope.eu/codaloop)

**Contact:** Prof ir Luca Bertolini, University of Amsterdam

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**Budget:** 962.947 EUR

**Partners:** University of Amsterdam (AISSR), Planbureau voor de Leefomgeving (PBL), Graz University of Technology, PlusOneMinusOne, Delft University of Technology, District Municipality of Kadikoy, Yildiz Technical University, Energie Steiermark AG, Stadtlabor Graz, City of Graz/Stadtbauverwaltung, HORN Consult, Amsterdam Economic Board/Amsterdam Smart City, Nudge, Yurtici Kargo

## CIVIC

Construction is required to create more attractive, sustainable and economically viable cities. This includes the expansion of infrastructure, development of new residential areas and renovation of buildings. However, construction related transport causes negative impacts for people that live, work and/or travel in the vicinity of construction sites. CIVIC (Construction In Vicinities: Innovative Co-creation) facilitates the participation of all stakeholders in the evaluation of alternative transport and logistics measures that minimise disruptions and nuisance and improve energy efficiency. CIVIC will increase understanding among stakeholders on improved transport and will generate smart governance strategies to support implementation of the CIVIC approach.

### **CIVIC – Construction In Vicinities: Innovative Co-creation**

**Duration:** 2016–2018

**Internet:** [www.jpi-urbaneurope.eu/civic](http://www.jpi-urbaneurope.eu/civic)

**Contact:** MSc Susanne Balm, Amsterdam University of Applied Sciences

**E-mail:** [s.h.balm@hva.nl](mailto:s.h.balm@hva.nl)

**Budget:** 929.213 EUR

**Partners:** Amsterdam University of Applied Sciences, Vrije Universiteit Brussel, Austrian Institute of Technology, Lindholmen Science Park, Linköping University, Chalmers University of Technology, CommuniThings, BERNARD Ingenieure, Deudekom and Cargohopper

## BREATHE

The project analyses the interactions between urban form, economic welfare, energy use by and emissions from households and firms. Increasing urban density and increasing city size tend to reduce households' average energy consumption. However, increasing population density also tends to reduce local air quality. This trade-off as well as urban policies to stimulate the transition towards low carbon cities are subject of study. This is done by collecting data in four very different European cities – Amsterdam, Istanbul, Gothenburg and Barcelona – and by developing a spatial-economic equilibrium model that can be used for policy simulations. BREATHE engages policy makers and companies from the four cities.

### **BREATHE – Urban form, location choice and transport solutions for low-carbon cities**

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/breathe](http://www.jpi-urbaneurope.eu/breathe)

**Contact:** Dr. Steven Poelhekke, Vrije Universiteit Amsterdam

**E-mail:** [steven.poelhekke@vu.nl](mailto:steven.poelhekke@vu.nl)

**Budget:** 606.718 EUR

**Partners:** Vrije Universiteit Amsterdam, University of Gothenburg, Sabanci University, Universitat Autònoma de Barcelona

## SURECITY

SURECITY's mission is to support smart city level integration of policies and measures towards a low carbon energy system including mobility services keeping in focus the sustainability goals on air quality, sustainable land-use, efficient water use, job creation and improved governance. This is done by a software platform which bridges the different scientific models to perform a holistic and optimal design of local energy and emission abatement strategies in the medium- and long-term for neighborhoods and cities. End users of this information, e.g. politicians, citizens and companies, can use the platform to assess the social, technological and economic impacts of measures in all major economic sectors.

**Surecity – Sustainable and Resource Efficient Cities  
– holistic simulation and optimization for smart cities**

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/surecity](http://www.jpi-urbaneurope.eu/surecity)

**Contact:** Dr. DI Nicolas Pardo Garcia, AIT Austrian Institute of Technology

**E-mail:** [nicolas.pardo-garcia@ait.ac.at](mailto:nicolas.pardo-garcia@ait.ac.at)

**Budget:** 1.319.491 EUR

**Partners:** AIT Austrian Institute of Technology, City of Malmö, Luleå University of Technology, IVL Swedish Environmental Research Institute, Energia Lateral, Styrian Energy Agency, City of Judenburg, Municipality of Almada

## Green Blue Cities

The main objective of this project is to develop knowledge and tools required to seize the opportunities arising from future challenges to manage urban storm water in a way that facilitates robust, synergistic and multi-functional green infra-structures that will address today's and tomorrow's climate and other changes in dynamic urban areas. This project work will be conducted in an international urban living lab in Kiruna, Sweden, combined with one national urban living lab (a so called city-hub) per participating country, where citizens, practitioners, decision makers and researchers are brought together to jointly develop innovative solutions.

**Green Blue Cities – Green/Blue Infrastructure for Sustainable, Attractive Cities**

**Duration:** 2013–2016

**Internet:** [www.jpi-urbaneurope.eu/green-blue-cities](http://www.jpi-urbaneurope.eu/green-blue-cities)

**Contact:** Dr. Godecke Blecken, Luleå University of Technology

**E-mail:** [godble@ltu.se](mailto:godble@ltu.se)

**Budget:** 1.600.000 EUR

**Partners:** Luleå University of Technology, University of Innsbruck, Delft University of Technology

## play!UC

Play!UC aims to foster the understanding of complex urban problems by combining participatory processes with serious games in a co-located setting. In particular, the project seeks to explore how game mechanics can be used to engage the actor group of young adults to make informed decisions that have an impact on their respective urban carbon footprints. Investigating both existing games and novel game-based approaches, the project partners endeavour to create a tested game mechanics toolbox that can serve as a resource for participatory, game-based urban development scenarios.

**Play!UC – Playing with Urban Complexity: Using co-located serious games to reduce the urban carbon footprint among young adults**

**Duration:** 2014–2017

**Internet:** [play-uc.net](http://play-uc.net)

**Contact:** Katharina Gugerell, University of Groningen

**E-mail:** [k.gugerell@rug.nl](mailto:k.gugerell@rug.nl)

**Budget:** 819.194 EUR

**Partners:** Hasselt University Researchgroup ArcK, FH OOE Research Center Hagenberg HGB – gLab, Green City Lab Vienna, University of Groningen

## PARENT

The PARENT project aims to increase engagement of individuals in the responsible management of their own electricity usage, thereby understanding how we can stimulate behavioural change in the area of energy consumption in households. It will develop an innovative and marketable platform for participatory energy management, fuelled by novel analytics, visualisation and gamification techniques. Ample attention will be paid to social acceptability. The project will operate in four cities in Europe, and study social acceptance within the user communities of these cities. With this knowledge, it will be possible to offer guidelines for reducing household energy consumption at multiple levels in Europe, taking requirements for responsible innovation and public engagement into account.

**PARENT – PARTICIPATORY platform for sustainable ENERGY management**

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/parent](http://www.jpi-urbaneurope.eu/parent)

**Contact:** Dr. Jamal Shahin, Vrije Universiteit Brussel

**E-mail:** [jamal.shahin@vub.ac.be](mailto:jamal.shahin@vub.ac.be)

**Budget:** 1.627.387 EUR

**Partners:** Vrije Universiteit Brussel, Enerbyte Smart Energy Solutions, University of Bergen, Resourcefully, Utrecht University, Blue Planet Academy & Consulting, Commune de Forest, Commune de Watermael-Boitsfort, Agencia d'Energia de Barcelona, Municipality of Bergen, City of Amsterdam

## Smart Urban Isle

Smart Urban Isle aims to move forward with urban energy savings. Based on a three cornerstones procedure, the project aims at a whole new urban planning that allows cities to grow in a sustainable way. Consequently, we develop an innovative concept for city planning, where cities are arranged and grow through small integrated areas. The project will probe Smart Urban Isle as an innovative basic energy unit in the Smart City. Municipalities such as Amsterdam, Winterthur, Zurich, Limassol, Iasi, Granada, Güssing (through ecoEnergyLand) and Santa Cruz de Tenerife have shown their interest to work hand by hand implementing the outcomes.

### Smart Urban Isle – Smart bioclimatic low-carbon urban areas as innovative energy isles in the sustainable city

**Duration:** 2016–2018

**Internet:** [www.jpi-urbaneurope.eu/smart-urban-isle](http://www.jpi-urbaneurope.eu/smart-urban-isle)

**Contact:** Ing. Antonio Collado, Consultoría de Automatización y Robótica S.A. (CARSA)

**E-mail:** [acollado@carsa.es](mailto:acollado@carsa.es)

**Budget:** 1.449.188 EUR

**Partners:** Consultoría de Automatización y Robótica S.A. (CARSA), Technical University Iasi, ZHAW Zurich University of Applied Sciences, Europäisches Zentrum für Erneuerbare Energie Güssing, Delft University of Technology, SC SQnP SRL, Cyprus University of Technology, Anergdy AG, Middle East Technical University

## SPACERGY

SPACERGY concerns research into 'Energy Sensitive Cities', to achieve inclusive, shared visions, collaboration and informed acting by planners and decision makers, in joint coalitions with users and other stakeholders. The project will help increase knowledge on reciprocities and beneficial interactions of spatial aspects of urban developments, energy and mobility infrastructures. To do so research is related to real-life urban developments and stakeholders in four different locations. Based upon in-depth modelling and action research with stakeholders it will provide guidelines to support informed decision making, to be applied in other developments throughout Europe.

### SPACERGY – Space-Energy patterns for smart energy infrastructures, community reciprocities & related governance

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/spacergy](http://www.jpi-urbaneurope.eu/spacergy)

**Contact:** Prof.dr.ir. Arjan van Timmeren, Delft University of Technology

**E-mail:** [a.vantimmeren@tudelft.nl](mailto:a.vantimmeren@tudelft.nl)

**Budget:** 1.108.624 EUR

**Partners:** Delft University of Technology, Bergen University College, ETH Zurich, Municipality of Zurich, Municipality of Almere, Municipality of Bergen, The Public Road Administration of Norway, Municipality of Brescia, AMS Institute

## ACCESSIBILITY AND CONNECTIVITY

The economic competitiveness of a city, as well as the life quality of its residents, is directly affected by access or connectivity to urban amenities and services, both internally and externally. Infrastructural, technological and social developments have transformative impacts on this connectivity. New forms of organisation and management, new services and new business models are being tested in response to market pressures, environmental regulations, or in expectations and practices of urban dwellers. This paradigm shift requires an improved understanding of the needs and behaviour of urban commuters, the sectoral changes at stake, their interrelationships and their overall effect on urban performance.





## SmarterLabs

The 'Smart City Living Lab' is an emerging approach in European cities. It brings together citizens, policymakers, businesses and researchers to test smart, ICT based solutions to urban problems in real-life contexts. However, for urban mobility problems, solutions that 'work' in the particular reality of a living lab may not be adopted at a large scale. Urban infrastructure is interwoven with the daily lives of citizens and therefore difficult to change, and large groups may not even have access to ICT based solutions. The SmarterLabs project develops a novel approach that anticipates such problems in upscaling, and tests the approach through smart mobility living lab experiments in four cities: Bellinzona, Brussels, Graz and Maastricht.

### SmarterLabs – Improving Anticipation and Social Inclusion in Living Labs for Smart City Governance

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/smarterlabs](http://www.jpi-urbaneurope.eu/smarterlabs)

**Contact:** Marc Dijk, Maastricht University

**E-mail:** [m.dijk@maastrichtuniversity.nl](mailto:m.dijk@maastrichtuniversity.nl)

**Budget:** 1.141.927 EUR

**Partners:** Maastricht University, University of Graz - RCE Graz-Styria, University of Applied Sciences and Arts of Southern Switzerland, Vrije Universiteit Brussel, Cosmopolis Centre for Urban Research, BRAL Brusselse Raad voor het Leefmilieu, City of Maastricht, Maastricht Bereikbaar, Grontmij, City of Graz, Pro Velo Ticino, City of Bellinzona

## IRENE

This project focuses on utilising the decentralized nature of future energy generation to make it more robust against attacks, and on minimising impacts of power outages on associated critical infrastructures such as: water and gas supply communication systems, public transport and road traffic control. The aim is to understand what social and technical measures should be considered when implementing these new technologies for the benefit of all stakeholders.

### IRENE – Improving the Robustness of Urban Electricity Networks

**Duration:** 2014–2016

**Internet:** [ireneproject.eu](http://ireneproject.eu)

**Contact:** Oliver Jung, AIT Austrian Institute of Technology

**E-mail:** [oliver.jung@ait.ac.at](mailto:oliver.jung@ait.ac.at)

**Budget:** 1.419.849 EUR

**Partners:** Ethos VO Ltd., University of Twente, Università degli Studi di Firenze, Queen Mary University of London, AIT Austrian Institute of Technology

## E4-share

Due to growing awareness and concerns regarding pollution, sustainability and life quality, cities are confronted with severe challenges and need to manage a transformation process that shall lead to less pollution and less energy consumption, while increasing the quality of public space available to citizens. These challenges can be met by flexible carsharing systems based on electric cars which also allow citizens to efficiently use and shift between different modes of transport. In E4-share, the foundations will be laid for efficient and economically viable electric carsharing systems by studying and solving the optimisation problems arising in their design and operations.

### E4-share – Models for Ecological, Economical, Efficient, Electric Car-Sharing

**Duration:** 2014–2017

**Internet:** [www.univie.ac.at/e4-share](http://www.univie.ac.at/e4-share)

**Contact:** Markus Leitner, University of Vienna

**E-mail:** [markus.leitner@univie.ac.at](mailto:markus.leitner@univie.ac.at)

**Budget:** 1.008.721 EUR

**Partners:** AIT Austrian Institute of Technology, Université Libre de Bruxelles, University of Bologna, iC consulente ZT, University of Vienna

## me2

Electricity and electric mobility are getting closer together on a local level. me2 (mobility + electricity = synergy) is a platform that connects citizens of local communities, helping them to be more aware of their energy consumption, incentivising changes in their individual and collective behaviour and helping them to save electricity costs while being engaged with a local community. The me2 platform, which will be piloted and demonstrated in Lisbon and Amsterdam, can be employed by various actors, such as utilities, EV fleet operators or municipalities, enabling them to control user behaviour in order to make the electric grid more efficient and reliable.

### me2 – Integrated smart city mobility and energy platform

**Duration:** 2016–2018

**Internet:** [www.jpi-urbaneurope.eu/me2](http://www.jpi-urbaneurope.eu/me2)

**Contact:** Dr. Robert van den Hoed, Amsterdam University of Applied Sciences

**E-mail:** [r.van.den.hoed@hva.nl](mailto:r.van.den.hoed@hva.nl)

**Budget:** 862.880 EUR

**Partners:** Amsterdam University of Applied Sciences, UCP Católica Lisbon School of Business & Economics, Lisboa E-NOVA, Agência Municipal De Energia-Ambiente De Lisboa, MOOSMOAR Energies, Virtual Power Solutions, MediaPrimer



## CONCOORD

An efficient transportation system is vital for economic growth, European cohesion and the wellbeing of the citizens. CONCOORD focuses on urban related freight transportation flows that are currently fragmented. It investigates an integrated urban freight simulation environment, a unique measurement framework for the environmental footprint of transport and logistics and the performance measurement of new innovative urban transport and logistics concepts. CONCOORD deals with the different and important considerations of new transportation solutions, new mechanisms for execution and control of city logistics, and research on the urban distribution of goods reducing urban freight movements and its impact on residents and the environment.

### CONCOORD – Consolidation and Coordination in urban areas

**Duration:** 2013–2016

**Internet:** [www.jpi-urbaneurope.eu/project-conCOORD](http://www.jpi-urbaneurope.eu/project-conCOORD)

**Contact:** Prof. Dr. Tom Van Woensel, Eindhoven University of Technology

**E-mail:** [t.v.woensel@tue.nl](mailto:t.v.woensel@tue.nl)

**Budget:** 2.230.000 EUR

**Partners:** Vienna University of Economics and Business, Technical University of Denmark, Middle East Technical University, University of Twente, Eindhoven University of Technology

## IP-SUNTAN

This project develops and investigates smart solutions for urban transport problems. Smart means that innovative technologies will be used (for example ICT and GPS based), and that smart ways to stimulate people to change behaviour or adopt technologies will be developed and evaluated. The project considers road transport, cycling and walking, and public transport. It looks at a broad range of tools, including electronic fare cards, real-time public transport information, automated tracking of vehicles, and data from innovative pricing and rewarding experiments. The project brings together research groups, local authorities and case studies from Amsterdam, Rotterdam, Stockholm, Gothenburg and Vienna.

### IP-SUNTAN – Innovative Policies for Sustainable Urban Transportation

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/ip-suntan](http://www.jpi-urbaneurope.eu/ip-suntan)

**Contact:** Prof. Dr. Erik Verhoef, VU University Amsterdam

**E-mail:** [e.t.verhoef@vu.nl](mailto:e.t.verhoef@vu.nl)

**Budget:** 811.053 EUR

**Partners:** VU University Amsterdam, KTH Royal Institute of Technology, Vienna University of Economics and Business, Amsterdam Zuidas, Verkeersonderneming Rotterdam, Stockholm Public Transport Agency, City of Stockholm, Transportation Administration, Stockholm Regional Office, Vienna City Administration (MA18)

## Smart Commuting

This project targets to find out how new types of mobility concepts, such as electric carsharing and mobility as a service, could support commuters' needs. Various research methods are used, but also implementation of new measures through the participating companies. The goal is to assist different stakeholders to remove unnecessary obstacles in the use of new innovative services – to support them in helping users to make their lives a bit more sustainable.

### Smart Commuting – Smart and Mobile Work in Growth Regions

**Duration:** 2016–2018

**Internet:** [www.jpi-urbaneurope.eu/smart-commuting](http://www.jpi-urbaneurope.eu/smart-commuting)

**Contact:** Prof. Dr. Matti Vartiainen, Aalto University

**E-mail:** [matti.vartiainen@aalto.fi](mailto:matti.vartiainen@aalto.fi)

**Budget:** 1.504.263 EUR

**Partners:** Aalto University, AIT Austrian Institute of Technology, tbw research GesmbH, ZHAW Zurich University of Applied Sciences, Virta Ltd/Liikennevirta Oy, AC2SG Software Oy, Tuup Oy, ISTmobil GmbH3, Growth Corridor Finland, Office of Mobility in the canton of Basel-Stadt

## TRANS-FORM

Smart cities and communities rely on efficient, reliable and robust transport systems. This project will contribute to a better understanding of how people move in different levels of the public transport network and to offer new techniques to adjust public transport services to respond to actual demand levels. Three case studies in the Netherlands, Sweden and Switzerland will measure how travellers transfer within terminals and urban and regional networks, in order to develop methods for predicting passenger flows, quantify the reliability of passenger experience and evaluate strategies for improved coordination between travel modes, especially in case of disturbances.

### TRANS-FORM – Smart Transfers through Unravelling Urban Form and Travel Flow Dynamics

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/trans-form](http://www.jpi-urbaneurope.eu/trans-form)

**Contact:** Dr. Oded Cats, Delft University of Technology

**E-mail:** [o.cats@tudelft.nl](mailto:o.cats@tudelft.nl)

**Budget:** 1.295.855 EUR

**Partners:** Delft University of Technology, Linköping University, École Polytechnique Fédérale de Lausanne, Blekinge Institute of Technology, IBM Research GmbH, ETRA

## URBAN GOVERNANCE AND PARTICIPATION

Strategies that transition urban areas into more sustainable and resilient future states will be defined as part of a collaborative process involving all key stakeholders, from public and private organisations to (representative) private individuals. This will require new collaborative governance and policy-making frameworks that ensure productive, creative and co-operative engagement, especially as regards the increasing importance of 'real-time' in urban governance and management, e.g. in the face of the growing importance of extreme events. The utilization of big data, new enabling technologies and methods that support these participatory approaches is especially promising in this context.



## APRILab

Urban development often still takes place through traditional forms of teleocratic approaches of research and practice. These approaches are characterized by their instrumental focus on goal-specific tasks, means, and outcomes rather than searching for context based adaptability under the guidance of generic principles. APRILab combines knowledge and increases the variety of case studies by selecting case studies from cities in four different countries. By joining forces, a deeper understanding of the paradigmatic shift for planning practice can be developed, and application of new research methods in planning applied.

**APRILab – Action oriented planning, regulation and investment dilemmas for innovative urban development in living lab experiences**

**Duration:** 2013–2016

**Internet:** [www.jpi-urbaneurope.eu/project-aprilab](http://www.jpi-urbaneurope.eu/project-aprilab)

**Contact:** Prof. Dr. W.G.M. Salet, University of Amsterdam

**E-mail:** [w.g.m.salet@uva.nl](mailto:w.g.m.salet@uva.nl)

**Budget:** 901.455 EUR

**Partners:** Aalborg University, Yıldız Technical University, Aalto University, Municipality of Amsterdam, University of Amsterdam

## b-Part

b-Part investigates novel concepts and solutions for citizen e-participation utilising latest mobile device technology and appliances embedded in today's urban environments. The research project aims to support development of pervasive participation in European cities and to strengthen the citizens' involvement in governance. The approach considers each level of e-participation: enabling, engaging, and empowering citizens with the ultimate aim of encouraging a continuous dialogue between a city and citizens by using contemporary technology. In a highly interdisciplinary approach, involving end-users through urban living labs, b-Part combines user-centered pervasive interaction research with social studies to explore engagement and activation as well as research on democratic innovations to ensure integration into the overall political decision making process.

**b-Part – Building Pervasive Participation**

**Duration:** 2013–2016

**Internet:** [www.jpi-urbaneurope.eu/project-b-part](http://www.jpi-urbaneurope.eu/project-b-part)

**Contact:** Peter Fröhlich, AIT Austrian Institute of Technology

**E-mail:** [peter.froehlich@ait.ac.at](mailto:peter.froehlich@ait.ac.at)

**Budget:** 1.151.963 EUR

**Partners:** Örebro University, University of Turku, FTW Telecommunications Research Center Vienna, AIT Austrian Institute of Technology

## URB@Exp

European cities face complex economic, social and environmental challenges. To address these challenges, cities seek new approaches. A currently popular approach is urban labs (living labs and city labs), in which local governments engage in solving problems together with other stakeholders in urban development. However, clear guidelines are needed concerning types of problems for which urban labs are most suited and how urban labs can best be organised and integrated into formal local government organisations. The URB@Exp project aims to develop such guidelines by reviewing experiences of urban labs, and conducting action research in urban labs in five European cities.

**URB@Exp – Towards new forms of urban governance and city development: learning from URBan Experiments with Living Labs & City Labs**

**Duration:** 2014–2017

**Internet:** [www.urbanexp.eu](http://www.urbanexp.eu)

**Contact:** Dr. Christian Scholl, Maastricht University

**E-mail:** [christian.scholl@maastrichtuniversity.nl](mailto:christian.scholl@maastrichtuniversity.nl)

**Budget:** 1.676.820 EUR

**Partners:** Maastricht University, City of Maastricht, Lund University, Pantopicon, City of Antwerp, Malmö University, City of Malmö, Graz University, City of Graz, City of Leoben

## UrbanData2Decide

The UrbanData2Decide project aims to extract and process information from two rich sources, namely public social media and open data libraries. This information, combined with advice from expert panels, will support local governments towards a holistic, sustainable and well-founded decision-making process which takes into account the views and perspectives of all relevant stakeholders. The chief aim of this project is to develop new methods to combine existing big data pools and expert knowledge into one optimal framework to support holistic decision making for urban management.

**UrbanData2Decide – Integrated Data Visualisation and Decision Making Solutions to Forecast and Manage Complex Urban Challenges**

**Duration:** 2014–2016

**Internet:** [www.urbandata2decide.eu](http://www.urbandata2decide.eu)

**Contact:** Alessio Bertone, SYNYO GmbH

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**Budget:** 1.138.202 EUR

**Partners:** University of Oxford, Oxford Internet Institute, Malmö University, Open Data Institute, IT University of Copenhagen, Software Development Group, ZSI Centre for Social Innovation, SYNYO GmbH, Research and Development Department

## IntegrCiTy

Nowadays, energy supply networks in cities – natural gas, electricity and heating/cooling – are almost always planned and operated separately from each other. This “silo-like” approach prevents energy utilities and city planners from: a) identifying opportunities of synergy among the networks, as to increase reliability and robustness of energy supply; b) optimally planning heavy infrastructure investments, thus taking into account future energy demand evolutions while avoiding oversizing. IntegrCiTy’s overall aim is to foster energy networks interoperability either in existing or future urban infrastructures by developing a dedicated decision-support tool, that shall be applied and tested/validated in three Swiss and Swedish cities.

### **IntegrCiTy – Decision-support environment for planning and integrating multi-energy networks and low-carbon resources in cities**

**Duration:** 2016–2018

**Internet:** <http://energycenter.epfl.ch/cms/site/energy-center/lang/en/integracity>

**Contact:** Dr. Massimiliano Capezzali, École Polytechnique Fédérale de Lausanne

**E-mail:** [massimiliano.capezzali@epfl.ch](mailto:massimiliano.capezzali@epfl.ch)

**Budget:** 1.484.776 EUR

**Partners:** École Polytechnique Fédérale de Lausanne (EPFL), AEE – Institute for Sustainable Technologies (AEE INTEC), AIT Austrian Institute of Technology, City of Vevey, HES-SO Valais-Wallis, KTH Royal Institute of Technology, Centre de Recherches Énergétiques et Municipales (CREM), Romande Energie SA, Hoval Austria, Europe Power Solution AB, Canton de Genève – Office Cantonal de l’Energie (OCEN), Veolia Sverige AB, Services Industriels de Genève (SIG), Holdigaz SA, Riksbbyggen, ElectriCity, City of Stockholm

## GUST

European cities face a pressing challenge to provide economic prosperity and social cohesion while achieving environmental sustainability. In response, new ‘living labs’ – sites devised to design, test and learn from social and technical innovation in real time – are being formed. Individual cases have been studied, but limited work has been done to understand how they work across different national contexts and how we can scale-up their impact or share lessons across European cities. This project brings together leading European research partners and practitioners to investigate urban living labs and enhance their potential for contributing to sustainability transitions.

### **GUST – Governance of Urban Sustainability Transitions: Advancing the role of living labs**

**Duration:** 2014–2017

**Internet:** [www.urbanlivinglabs.net](http://www.urbanlivinglabs.net)

**Contact:** Kes McCormick, Lund University

**E-mail:** [kes.mccormick@iiee.lu.se](mailto:kes.mccormick@iiee.lu.se)

**Budget:** 1.429.939 EUR

**Partners:** Durham University, Erasmus University Rotterdam, Joanneum Research, Lund University

## CASUAL

Urban policies and projects that are expected to promote sustainability are often focused on the built environment and the technical infrastructure. Less attention is given to changing lifestyles and everyday practices, even though citizen and consumer behaviour have a tremendous impact on resource consumption in our cities. CASUAL investigates how to promote sustainable living and consumption patterns by including citizen and consumer perspectives in the governance of urban areas. New forms of inclusive urban governance are explored by looking at collectively organised initiatives outside formal planning procedures as models for the future. In addition, planning for sustainable mobility is investigated through a focus on so called transit-oriented-development.

### **CASUAL – Co-creating Attractive and Sustainable Urban Areas and Lifestyle – exploring new forms of inclusive urban governance**

**Duration:** 2013–2016

**Internet:** [www.nordregio.se/en/Nordregio-Research/](http://www.nordregio.se/en/Nordregio-Research/)

Co-creating-Attractive-and-Sustainable-Urban-Areas-and-Lifestyles-CASUAL

**Contact:** Dr. Peter Schmitt, Nordregio - Nordic Centre for Spatial Development

**E-mail:** [peter.schmitt@nordregio.se](mailto:peter.schmitt@nordregio.se)

**Budget:** 1.210.000 EUR

**Partners:** Austrian Institute for Regional Studies and Spatial Planning (OIR), Delft University of Technology, Nordregio - Nordic Centre for Spatial Development

## SmartGov

‘Smart Cities’ provide new ways of designing and managing public services, infrastructure, sustainable mobility, economic development and social inclusion. However, two-way communication between citizens and urban policymakers is lacking strongly. This is partly the result of underutilisation of citizens’ social media feeds and useful open data sets. The SmartGov project aims to create new support tools that effectively incorporate linked open data and social media into Fuzzy Cognitive Maps (FCMs). FCMs are useful modelling and visualization tools for discussing policy scenarios between citizens and governments. The developed tools will be tested and implemented in four European cities.

### **SmartGov – Advanced decision support for Smart Governance**

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/smartgov](http://www.jpi-urbaneurope.eu/smartgov)

**Contact:** Mag. Malgorzata Goraczek, Danube University Krems

**E-mail:** [malgorzata.goraczek@donau-uni.ac.at](mailto:malgorzata.goraczek@donau-uni.ac.at)

**Budget:** 1.232.120 EUR

**Partners:** Danube University Krems, Delft University of Technology - OTB - Research for the Built Environment, ACTIVE Solution Ingenieurbüro AG, Interfusion Services Ltd, Cyprus University of Technology, Kenus Informática, Limassol Municipality, City of Quart de Poblet

## Smart-FI

The Smart-FI project main goal is to create a set of facilities to allow citizens and developers to deploy and interoperate services, in an easy and standard way, by exploiting aggregated open data from smart cities in the future internet society. The project will count with the support of three cities: Málaga, Malatya and Karlshamn, to validate its results based on the exploitation of the data they expose aligned with the FIWARE platform. Pilots will be implemented in these three cities, being scaled to larger cities and broader scope to provide added value to future internet innovative services.

### Smart-FI – Exploiting Aggregated Open Data from Smart Cities in the Future Internet Society

**Duration:** 2016–2018

**Internet:** [www.jpi-urbaneurope.eu/smart-fi](http://www.jpi-urbaneurope.eu/smart-fi)

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**Budget:** 811.211 EUR

**Partners:** ATOS Spain SA, University of Málaga, Technische Universität Wien, SAMPAS Bilisim ve İletisim Sistemleri A.S, NetPort Science Park AB, Karlshamn Municipality, Malatya Metropolitan Municipality, Municipality of Málaga

## SmartCityHospitality (SCITHOS)

Tourists generate income for cities and create opportunities for its businesses and employment for its residents. However, it can also lead to overcrowding, pollution, noise and numerous other problems. This project develops Smart City Hospitality guidelines and tools for cities that could help them find solutions to these problems and actively involve the public in doing so. The latter is crucial, because improving livability of a city for its residents cannot be done without taking their needs and wants into account. Ultimately, this could change city tourism into something that benefits tourists, residents and the environment.

### SmartCityHospitality – Implementing low carbon social urban tourism solutions and creating citizen empowerment through Smart City Hospitality

**Duration:** 2016–2019

**Internet:** [www.jpi-urbaneurope.eu/smartcityhospitality](http://www.jpi-urbaneurope.eu/smartcityhospitality)

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**Budget:** 956.194 EUR

**Partners:** NHTV Breda University of Applied Sciences, Worldline Iberia, MODUL University Vienna Privatuniversität, Western Norway Research Institute, Göteborg & Co, Amsterdam Economic Board, Visit Belgrade, City of Darmstadt, City of Stavanger and Regionstavanger, Valencia Tourism

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## 2017

Urban Accessibility and Governance

## 2018

Quality of Urban Life

## 2019

Urban Transitions

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Sustainable Urban Areas

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The purpose of the Joint Programming Initiative Urban Europe is to serve as a hub for urban research and innovation in Europe. The programme aims to enable researchers and urban stakeholders from the business world, the public sector and civil society to join forces with other stakeholders across national borders to participate in joint research and innovation activities and transnational knowledge exchange. The Projects Catalogue provides an overview of the 37 projects funded in JPI Urban Europe's first three calls.