ERA-NET Cofund Smart Cities and Communities Joint Call for Proposals

**Submission deadline pre-proposals:
17 March 2015 at 12:00 CET**

**Submission deadline full proposals:
15 September 2015 at 12:00 CET**

URBAN EUROPE
Joint Programming Initiative

Smart Cities
Member States Initiative

Project no. 646453

ERA-NET Cofund Smart Cities and Communities

The ERA-NET Cofund Smart Cities and Communities (ENSCC) was established by the Joint Programming Initiative (JPI) Urban Europe and the Smart Cities Member States Initiative (SC MSI) in order to initiate a transnational joint call for RDI proposals addressing new solutions in the urban field, and demonstrating the feasibility of their implementation. ENSCC is supported by the European Commission and funded under the Horizon 2020 ERA-NET Cofund scheme*.

JPI - URBAN EUROPE
The aim of the JPI Urban Europe is to create attractive, sustainable and economically viable urban areas, in which European citizens, communities and their surroundings can thrive.

The JPI Urban Europe focuses on how to:
- Transform urban areas into centres of innovation and technology
- Ensure social cohesion and integration
- Reduce the ecological footprint and enhance climate neutrality
- Take advantage of technological solutions and realize efficient and sustainable urban systems and networks (mobility, energy, water, ICT, etc.)

www.jpi-urbaneurope.eu

Smart Cities Member States Initiative
The Smart Cities MSI was created in order to support the creation and implementation of the SET-Plan Industrial Initiative on Smart Cities and Communities.

The goals of the Smart Cities MSI are:
- To create policy and RDI funding support towards the development of Smart Cities on the level of the participating countries
- To move forward in our understanding of urban development and of the role which RDI funding can play in making Smart Cities sustainable, and a better place to live and work
- To work as a vehicle for partnership with the European Commission in the context of the SET-Plan and of the EIP on Smart Cities and Communities

http://www.smartcities.at/europe/transnational-cooperations/the-smart-cities-member-states-initiative/

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Table 1: National Funding Agencies: Amounts and focuses

Table 1 shows the minimum national and regional contribution that is available for this Call at each Funding Agency. The total national and regional budgets for this call will be co-funded by the European Commission in Horizon 2020. The additional budget of the European Commission will be used in a flexible way (not in a proportional way to national and regional budgets) to fund as many high quality projects of the ranking list as possible. A total amount of public funding of maximum 26 M€ will be provided by national and regional funding agencies, including support from Horizon 2020.

Country	Agency	Funding 2015-2018 (3 years)	Focus on stage of the research, development and innovation process*		
			Innovation and implementation	Applied research	Strategic research
Austria	FFG	3.5 M€	XX	XX	X
Belgium	DGO6	0.3 M€	XX	X	X
	Innoviris	0.5 M€	XX	XX	X
	FNRS	0.2 M€	X	X	XX
Cyprus	RPF	0.2 M€	X	X	X
Finland	Tekes	1.1 M€	XX	X	
Netherlands	NWO	1.3 M€	X	XX	XX
Norway	RCN	2.0 M€	XX	X	X
Portugal	FCT	1.0 M€	X	X	XX
Romania	UEFISCDI	0.8 M€	X	X	X
Spain	CDTI	1.5 M€	X	X	
Sweden	Formas	1.5 M€	X	XX	XX
	Swedish Energy Agency	2.0 M€	XX	XX	X
	Vinnova	1.1 M€	XX	X	X
Switzerland	DETEC	2 M€		XX	
Turkey	TÜBITAK	1.0 M€	X	X	X

*For the definitions of "strategic research", "applied research" and "innovation and implementation" used in this call text, please see Annex B.

XX = The funding agency is primarily focused on funding research in this stage.
X = The funding agency has the mandate to fund projects in this stage.

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1. Introduction

European cities are facing complex and widespread problems. Grand challenges such as demographic transformations, resource depletion and climate change, unequal social participation, congested transport networks, and difficult trade-offs in land use decisions can only be turned into opportunities if appropriate policy strategies are applied. Such policy actions need to be supported by dedicated co-ordination of Research and Innovation on the challenges and opportunities of urban environments in Europe.

The ERA-NET COFUND Smart Cities and Communities (ENSCC) was established by the Joint Programming Initiative Urban Europe (JPI UE[1]) and the Smart Cities Member States Initiative (SC MSI[2]) in order to initiate a transnational joint call for RDI proposals addressing new solutions in the urban field, and demonstrating the feasibility of their implementation. These solutions should aim at optimal energy and resource efficiency, preferably through the integration of technologies (energy, mobility, ICT) across the board, but also via the development and use of new business models and new methodologies in urban governance, and in explicitly aiming towards social cohesion, liveability, and sustainability.

The call addresses researchers, practitioners, innovators, and other stakeholders dedicated to the development of European urban areas. They are required to join forces with municipalities and their relevant business entities (e.g. urban utilities), as well as funders and industrial suppliers of urban services, investment and infrastructure, to suggest transnational projects for research and innovation, which by the very nature and commitment of the relevant partners give an example of demonstration and implementation within the field. We appreciate and encourage collaboration between multiple partners from across Europe, with broad geographical spread where this is of relevance to the research project and its implementation.

The projects submitted in this call should aim to cover new and innovative approaches, promote interdisciplinary research and collaboration and encourage the involvement of stakeholders, thus bridging gaps between research disciplines, citizens and decision makers, cities and transport/energy planners, producers and consumers. This call is open for proposals which bring together partners ranging from strategic research to innovation.

A total amount of public funding of maximum 26 M€ will be provided by national and regional funding agencies from 12 European countries (Austria, Belgium, Cyprus, Finland, the Netherlands, Norway, Portugal, Romania, Spain, Sweden, Switzerland and Turkey), including substantial support from Horizon 2020.

The call for pre-proposals is open until 17 March (12:00 noon CET). In May 2015 applicants will be invited to enter the second stage of the procedure: the call for full proposals will close on 15 September (12:00 noon CET).

This document describes the scope, objectives and content of the call, rules for participation and procedures from proposal to implementation of the projects. Further information on the joint call can be found on the Urban Europe website www.jpi-urbaneurope.eu.

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[1] www.jpi-urbaneurope.eu

[2] http://www.smartcities.at/europe/transnational-cooperations/the-smart-cities-member-states-initiative/

2. Scope

This Call for Proposals will facilitate implementation, demonstration and testing of integrated low-carbon urban energy and transport concepts and solutions in smaller scale projects at the local level, also involving smaller districts and cities, gathering key players into partnerships that build necessary scale and scope for larger demonstration on district, municipal or regional level, complementary to the large-scale lighthouse projects already envisioned in Horizon 2020.

Research, policy, and industry experience shows that innovation and implementation depend on active participation from many different kinds of actors – from developers and engineers over civil servants in city authorities to citizens – in order for innovations to gain market shares and reach their full effect in resource efficiency.

In this Call for Proposals, smart cities and communities are defined as innovation ecosystems, covering the full innovation cycle: urban municipally based activities comprising multi-stakeholder partnerships (including research and innovation actors) who address solutions concerning intelligent networking and integration of urban infrastructures to increase energy and resource efficiency as well as enhanced quality of life in urban areas. The thematic scope and funding mechanisms of this Call for Proposals are designed to support deployment of integrated low-carbon urban energy and transport solutions, targeting three specific major challenges encountered in current Smart Cities and Communities projects:

- Smart Cities and Communities have a long time horizon. Integrated urban energy planning will increase energy efficiency and resilience for a long time ahead while lack of integrated urban energy planning will instead become a barrier for future enhancement of the city. Smart Cities and Communities projects thus need to be framed within <u>a clear holistic vision that is flexible enough to continuously adapt to changing environments</u> in pursuit of improved effectiveness.
- Smart Cities and Communities work within uncertain environments where changes in spatial, environmental, regulatory, economic or social dimensions can result in time delays and increased costs that lie beyond the technical scope of the projects. This <u>requires efficient and effective organisation</u> in order to succeed.
- The complexity of Smart Cities and Communities is closely entangled with the influences and priorities of <u>different stakeholders</u>, sometimes hindering but potentially also spurring cooperation among urban decision makers, industry, citizens, researchers and other relevant actors that should <u>operate together in smart cities of tomorrow</u>.

This Call for Proposals is for projects around Smart Cities and Communities as Innovation Ecosystems: relational assemblages of stakeholders, researchers and initiatives which together make up an integrated effort for implementation and validation of approaches and solutions.

3. Call Topics

This call is open to the funding of projects in four topics, that have been identified and developed to deal with the challenges defined above. Proposals for collaborative transnational innovation projects, with elements of strategic or applied research, are welcome.[3] However, there is no funding available for industrial/commercial scale pilot projects.

The call topics are listed below. Under each call topic description a set of questions is given. One or more of these should be addressed by submitted proposals. In addition to these questions also additional questions may be explored within the given topics. In order to stimulate experimentation into the smart cities and communities concept as innovation ecosystems, project proposals should integrate at least one of the following topics:

- 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

Smart integrated urban energy and transport systems deal with complex cross-cutting infrastructure layers in cities and can contribute to a cleaner, safer and more efficient energy and transport system in urban areas. A broad but encompassing scope should be considered to reflect technical areas as well as the other areas of social, welfare, economic and quality of life aspects for the critical balance of Smart City development. Smart integrated urban energy and transport systems concern implementation and validation around business-models development, design, maintenance and improvement of both public and private utilities and infrastructure.
Projects related to this topic should address at least one, preferably several of the following questions:

- How can existing urban form and function be optimized for bioclimatic energy-efficiency strategies and non-motorised transport?
- How can urban energy networks (including supply, generation, re-use, storage, industry-city interaction etc.) be fully integrated into urban fabric at building, neighbourhood and city scale, and their design and management updated to support increased use of ICT and renewables?
- How can sensors, processors and ICT-driven control be used where appropriate to optimise functionality?

Smart tools and services for integrated urban energy and transport systems include the development and implementation of innovative methods and applications for integrated modelling and simulation, monitoring and management frameworks as well as business models and citizen services. The goal is to enable implementation of research results according to the needs for tools and services by gathering and adapting existing tools in close cooperation with key actors and if needed complement with new research. Therefore appropriateness and applicability of these tools can only be achieved by project teams which combine different disciplines and knowledge.
Projects related to this topic should address at least one, preferably several of the following questions:

- How can tools and services improve functionality and efficiency of urban energy and transport?

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[3] For the definition of the three three types of activities: research, development and innovation cf. Annex B. Please take into account that different funding agencies will have the possibility to fund different parts within the RDI system (see Table 1).

- How can integrated simulation of environmental impacts of energy, land use, transport, buildings, water and waste be used to make better predictions of effects of planned new policies and investments?
- How can already existing tools be combined to create such an integrated urban infrastructure simulation platform?
- How can the appropriateness and applicability of these tools and services be evaluated and improved?

Smart data, big data provides a great potential for improving participatory decision-making through real-time monitoring, management, optimization and visualization of urban systems. Real-time data generated by a multitude of sources including smart metering systems, sensors, Internet of Things devices and crowd-sourced sensing integrated with the conventional datasets delivers prospect to support both operational and strategic decisions by city planners, utility providers, industries, citizens and other stakeholders.

Projects related to this topic should address at least one, preferably several of the following questions:

- How can smart data provide better understanding of city dynamics, inform participatory decision-making and support smart city scenarios such as efficient energy or intelligent transport systems?
- How can problems and concerns associated with Big Data in innovation zones, including digital divide, change of culture and habits, privacy, information security, data quality and interoperability issues, be tested, identified and tackled?

Smart governance and smart citizens are closely connected sets of challenges commonly held as necessary to bridge the gap between and accelerate the movement from research to market. Smart governance generally refers to processes that enable citizen involvement in decision-making, in equal rights for information, encouraging innovation, enhancing economic performance and quality of life, etc. Smart citizens focus on what kind of new opportunities may show up for citizens in smart cities implementation. To enable the implementation of smart city technologies key players need to be gathered into partnerships that build the necessary scale and scope. This could be achieved by project teams that combine elements from ICT developers concerning energy-relevant technologies, experimental development actors such as living lab engineering and actors to identify city and citizen needs.

Projects related to this topic should address at least one, preferably several of the following questions:

- What kinds of governance concepts are needed for efficient and successful implementation of smart city technologies?
- What kinds of new opportunities may show up for citizens in smart cities implementation?
- How to enable and encourage broad participation and engagement by all stakeholders in all aspects of a cities' life?

4. Rules for Participation

Some requirements are common for all applicants and funding agencies. In addition to these *general requirements* there are *specific funding agency rules* which apply to applicants that claim funds from a specific funding agency (see Annex A). The term "proposal" is used both for the pre-proposal in the first stage of the evaluation procedure and the full proposal in the second stage.

Types of research, development and innovation activities

This call aims towards innovation and implementation of integrated low-carbon energy and transport systems at the urban scale, it is mandatory for projects to include innovation and implementation activities. However, projects are also allowed complementing urban energy innovation and implementation activities (i) with applied urban energy research (a) and strategic urban energy research (s). In short RDI projects can be distinguished in four categories: i, i-a, i-a-s, i-s. For more information on the different activities, see Annex B. Different funding agencies will have the possibility to fund different parts within the RDI system. Table 1 indicates which kind of activity will be funded by which funding agency. The key characteristics of the three stages of RDI activities are defined as follows:

- While strategic and applied urban research are both focused on producing knowledge, "urban energy innovation and implementation" take things one step further, and promote the actual creation or advancement towards new products, services, policies, practices, or processes – such as integrated low-carbon energy and transport systems, tools, services and data – in such a manner that the first actual impact already takes place during the project. Products, services, policies, practices, and processes being developed could be of commercial value, but equally welcome is innovation directed at public governance, management, and operation. Urban innovation is always carried out in close collaboration with practitioners or other target audience.
- Based on an understanding of how smart low-carbon cities function, it is natural to take a next step and allow that to influence policy and interventions. Knowledge creation about this process is the field of "applied urban energy research". Applied urban research in this context is about how city officials, citizens, practitioners, and others can influence and interact with a smart low-carbon city, with a purpose of improving it or adapting it in some respect. In applied urban research there is good opportunity to involve representatives from non-academic institutions in the projects, to bring the practitioners' perspective in order to co-produce knowledge relevant for user stakeholders. Applied urban energy research always has a policy influence on some level, and aims at being tangible and applicable to such a degree that the results are likely to have an impact on actual decisions. Apart from publication in peer-reviewed journals, knowledge exchange activities such as policy briefings, policy seminars and other events targeted at stakeholders are important, as well as dissemination in popular media.
- The term "strategic urban energy research" is defined as that which is driven by the desire to know, understand, and explain energy consumption in cities, how they work and interact across domains and sectors. This does not have anything directly to do with attempts to influence or plan energy in cities. Strategic urban energy research by this definition encompasses qualitative as well as quantitative approaches, and examples can be found in any academic discipline. The subject of this type of research can be an individual aspect of a city or a city in its entirety, or even a network of related cities. Strategic urban energy research can be theoretical, comparative or case specific. For strategic urban energy research, the prime goal is to expand on the common knowledge about energy in cities and

how cities function. In line with this, it places a high value on traditional scientific method and publication in high ranking peer reviewed journals.

Type of Project
Project proposals will have to define their specific ambition for implementation with respect to technology and service solutions, integration of technologies and services and user acceptance as well as transition processes through change of governance and stakeholder participation. Project proposals need to discuss how shifts in implementation levels are supported by the project concept. Thereby, three levels of implementation are distinguished:

Pre-implementation. Project activities contribute to preparation of smart city implementation activities. Projects need to clearly demonstrate a close link to the implementing party (e.g. cities, large infrastructure companies), either by providing a letter of intent or by taking the responsible actor for implementation in the consortium. In any case they must convince evaluators that the preparatory work for implementation is taken up in a later stage. An implementation concept must be part of the project deliverable. Smart Cities Living Labs could be used as a test environment for real implementation, for more information on Smart Cities Living Labs please see Annex C.

Implementation. The project's activities form an integral part of the implementation of technology, tools, service, data or governance development in the area of smart cities. Close connection to the implementing party must be demonstrated (consortium member, in-kind contribution, letter of intent). Moreover, the proposal must outline how the proposed activity forms an integral part of the smart city implementation.

Post-implementation. The project's activities relate to e.g. evaluation or monitoring of smart city implementation. The aim is to gain information on the effects and create an experience base for similar implementation activities in the future. The implementing party should be closely linked to the project to ensure future learning and taking up of findings.

Who can participate and apply?
Each project proposal must be submitted by a project consortium consisting of at least three eligible applicants from at least three participating countries. Each project consortium must have the interest and competence to undertake research, development and/or innovation within the specified themes.

The target group of the call includes organisations which can contribute to the implementation of demonstration projects for a smart city, they can participate as either an applicant, co-applicant or cooperation partner, for example:[4]
- Companies (from industry/large companies to SMEs), in particular
    - energy suppliers, energy service providers
    - construction companies, property developers, investors
    - infrastructure operators (e.g. from the areas of building management, energy networks, local supply and disposal systems, communication and information systems, mobility, etc.)
    - Urban and traffic planners
- Cities, municipalities
- Consumers (e.g. business enterprises, test households, etc.)

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[4] Please note that a specific funding agency may not fund each type of organisation, if a partner is not eligible for funding the partner can still participate as coordination partner. For further information cf. Annex A.

- Citizens' representatives, NGOs
- Research institutions

Applicants
An organisation/institution or a natural person of the lead organisation is the Main Applicant, depending on the specific eligibility rules of the different agencies. In addition, a proposal must have at least two Co-applicants. The proposal may also include Co-operation Partners, whose role is described further on. If the funding is granted to a natural person, each natural person may only participate in a maximum of two proposals, and only once as Main Applicant. In the proposal the participation of all partners involved must be convincingly justified.
Only applicants located in the following ENSCC countries are eligible to apply as Main Applicant or Co-Applicant, irrespective of their nationality: Austria, Belgium, Cyprus, Finland, the Netherlands, Norway, Portugal, Romania, Spain, Sweden, Switzerland and Turkey. Applicants from other countries may participate as a Co-operation Partner.

Main Applicant's role
The Main Applicant will be responsible for running and managing the project. S/he will be the contact point with ENSCC on behalf of the whole consortium and is responsible for the administrative management of the complete project, should it be awarded funding. In addition, the Main Applicant is responsible for leading the project activities at his/her own organisation. The Main Applicant must be affiliated with an organisation situated in one of the twelve participating countries in this call. The specific eligibility rules of the respective funding agency apply.

Co-applicants' role
Each Co-applicant is responsible for leading the project activities at his/her own organisation. There may be more than one Co-applicant from any one country. If there is more than one Co-applicant from a country, one of them needs to be identified as the national consortium leader. Each Co-applicant should be affiliated with an organisation situated in a participating country. The specific eligibility rules of the respective funding agency apply.

Co-operation Partners
Partners from countries not participating in this call, or partners that are not eligible for funding from participating agencies, may be included in the projects as Co-operation Partners. Co-operation Partners can be included in the consortium if (a) they finance their activity from other sources and (b) the consortium in general fulfils the requirements on the number of applicants from participating countries. Project consortia involving Co-operation Partners must ensure that project results will be relevant for participating countries.

Eligibility requirements and recommendations
The call secretariat will verify the eligibility of the proposals according to the transnational eligibility criteria below. The participating funding agencies will verify the suitability for national funding according to their respective eligibility criteria.

If either the Main Applicant or the proposal does not meet the eligibility requirements, the proposal will not be admitted to the evaluation procedure. In case a single Co-applicant is not eligible, the proposal may still be eligible without this partner if and when the eligibility criteria are met by the proposal. In both cases, this will be communicated to the Main Applicant.
If a proposal is "eligible", this does not mean that it will be awarded funding, but only that the proposal will be admitted to the evaluation procedure.

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Project consortium
The added value resulting from transnational cooperation must be addressed in the proposal. There is no limit to the total number of partners who may be involved in each project. However, proposals for medium-sized projects submitted by consortia comprising applicants from approximately 3-5 funding agencies are expected. Consortia need to be balanced between countries both in terms of number of partners and distribution of budget. No one partner may represent more than 70% of the activity in the project.

- Consortia may consist of partners from universities, research organisations, institutes, stakeholder associations, city councils, SMEs, and industry.
- Consortia have to include stakeholders or implementation partners, and may consist of partners active across several positions within the research and development system (i.e. innovation, applied research, strategic research,) and across disciplines.
- Consortia are required to prove the interest and active involvement of project partners in the consortium, who will (either within the project, or as a consequence of the project) implement the solutions developed by:
  - Including stakeholders or implementation partners in the consortium who are eligible for funding;
    or
  - Having stakeholders or implementation partners not eligible for funding, who express their interest in the full proposal in a Letter of Intent. The letter must contain an explicit declaration about the financial or in-kind contribution agreed upon. In-kind contributions are contributions in man-hours of personnel or material contributions such as the use of specific software and access to facilities. In-kind contributions should be capitalised in the Letter of Intent and should be an integral component of the project plan. The amounts stated in the letter must agree with the amounts stated in the budget for the proposal.

Please also see Annex A for the specific Funding Agencies' rules regarding eligible applicants.

On the Urban Europe website www.jpi-urbaneurope.eu information is provided in order to support consortium building. Applicants looking for project partners can generate a "Partner Search Form" describing the profile of the organization they want to collaborate with. A template of the Partner Search Form (PSF) can be downloaded via the JPI Urban Europe website. The completed form shall be sent to the Call Secretariat who will publish it on the JPI Urban Europe website and on the LinkedIn Group "ERA-NET Smart Cities and Communities".

Project duration
Projects may be funded for a maximum of 3 years, and must start between December 2015 and March 2016. The starting date may depend on the budget allocation (rules) of the specific funding agencies. The end date of a project should be harmonised for all applicants in the same consortium.

Funding
The total funding available in this programme amounts up to 26M€ across all participating applicants. There are no fixed minimum or maximum limits for a project size. Medium-sized projects with total budgets requested from the funding organisations in the range of 1-2 M€ are typically expected, which allows approximately 20 projects to be granted funding (total project costs can be higher). However, there are (national) funding limits for the respective partners. Table 1 indicates the bandwidth of funds available from each of the respective national funding agencies. For more information on the specific funding agencies' rules, please see Annex A.

In the proposal a justification of the requested budget will be required. The estimated budget must be given in Euros only and be tabulated according to the proposal template provided. All costs must be eligible according to the funding agencies' rules available (see Annex A). In case of doubt, applicants should consult their respective funding agencies or the coordination office which can advise on funding rules.

Funding agencies' rules and eligibility criteria
In addition to the general rules and procedures laid down in this document, there may be specific funding agencies' rules to be followed by the applicants, e.g. funding agencies' eligibility criteria for certain organisations, co-funding requirements, national evaluation rules, etc. It is strongly recommended that these are checked with the contact person at the respective funding agency (see the table 'Contact points of participating funding agencies' on page 15) before submitting a proposal.
Please note the limitations regarding the types of activities the different funding agencies are able to support.
Both transnational and funding agencies' eligibility criteria must be positively met.

Language and form
Proposals must be prepared in English using the designated proposal form. Proposals written in other languages will not be accepted. The proposal form should be completely filled in; incomplete proposal forms will be ineligible.

Submission
Submission of a pre-proposal must be done by means of the FFG electronic submission system (https://ecall.ffg.at) ***before the deadline of 17 March 12:00 CET.***
Submission of a full proposal must be done by means of the FFG electronic submission system (https://ecall.ffg.at) ***before the deadline of 15 September 12:00 CET.***

An **online help document for submission** is provided via https://ecall.ffg.at/upload/medialib_cifs/eCall_Help_final.pdf. The pre-proposal/full proposal may only be submitted if **all co-applicants / co-operation partners** have previously **completed and submitted** their partner proposals in eCall. Therefore it is **within the main applicant's duties to ensure timely submission of all partner proposals and of the pre-proposal/full proposal as a whole.** The process of the invitation and "application" of project partners (co-applicants or co-operation partners) is described in detail in chapters 6 and 11 of the eCall help document (see above). The terms "partner proposal" and "partner application" are used equally. The "partner application" (or "partner proposal") only includes the master data of the project partner and does not mean that the pre-proposal must be submitted several times. It is not possible to resubmit the pre-proposal/full proposal or parts of it or to revise the pre-proposal/full proposal after the submission deadline.

By transmitting your pre-proposal/full proposal, you agree that it is forwarded to your responsible funding agency as well as to all other participating funding agencies involved in ENSCC.

If, after reading the instructions on the website www.jpi-urbaneurope.eu, you still have technical questions about the use of the system, please contact the FFG helpdesk.

5. Evaluation

Evaluation procedure
Within the framework of ENSCC **a two-stage procedure** will be adopted. In the first stage, consortia are invited to submit pre-proposals (consortium members, concise project description of no more than a couple of pages, and a budget indication with limited detail and according to national requirements). After the submission of the pre-proposals, a selection of approximately 50 pre-proposals will be made. The successful consortia will then be invited to elaborate their ideas to full proposals. Unsuccessful consortia will be provided with an overall assessment of the quality of their pre-proposals.

Eligible proposals, both pre-proposals and full proposals, will be evaluated in an open competition in which an independent international Expert Panel will rank proposals according to the programme's evaluation criteria. The Panel will consist of recognised experts in relevant fields, who can assess the potential of the submitted smart city projects. The Panel will be appointed by the participating organisations. Applicants will have no possibility for rebuttal to the committee's evaluation.

Based on the ranking by the Expert Panel, and taking into account the available (national) budgets, the participating national and regional funding agencies of ENSCC will take funding decisions. Funding decisions are final, and cannot be appealed.

A written statement on the evaluation of each full proposal will be sent by the Call Secretariat to the Main Applicants. The Call Secretariat will inform the Main Applicants of projects that have been recommended for funding, on the subsequent contracting procedure.

Note: Each project recommended for funding is required to have a signed consortium agreement between all partners prior to the start of the project, at least addressing the following topics:
- Internal organisation and management of the consortium
- Intellectual Property arrangements
- Settlement of internal disputes

Evaluation criteria
Proposals will be evaluated according to the following criteria. These criteria depend on the project type ranging from strategic research to innovation. The consortium is responsible for assigning a proposal to (a) specific project type(s). A proposal can be assigned to more than one project type (for example, different work packages or partners might fall under different project types); this will be taken into account during the evaluation.

*) Criteria used for both evaluating the pre-proposals and the full proposals. Criteria without asterisk are used only for the evaluation of full proposals.

Excellence	5 points
- Originality, innovativeness and contribution to new strategic knowledge and breakthrough implementation *) - Appropriateness of conceptual approach *) - Feasibility of aims and objectives of project - Feasibility and suitability of project design and methods - Handling of development risks - Added value of European trans-national co-operation *)	

Impact	5 points
- Fit to objectives and topics of the call text *) - Extent to which the project is likely to be of value to user communities/cities e.g. by involving an appropriate number of partners across Europe *) (Market) potential of the project *) - Suitability of proposed arrangements for disseminating and communicating outcomes of the project.	
Quality and efficiency of the implementation	5 points
- Value for money *) - Appropriateness of costing - Feasibility and appropriateness of timescale *) - Suitability of expertise, balance of substantial contributions of members to project consortium *) - Composition of consortium compared to the topics needs and European relevance *) - Appropriateness of management arrangements for project - Track record and/or other key expertise of consortium members - Interdisciplinary and cross-sectorial collaboration *)	

Weighting and thresholds

Experts will evaluate on the basis of the criteria 'excellence', 'impact' and 'quality and efficiency of the implementation'. Evaluation scores will be awarded for each criteria, and not for the different aspects listed in the above table. For pre- and full proposals, each criterion will be scored by the Expert Panel, using the following scale: 0) Unacceptable, 1) Weak, 2) Average, 3) Good, 4) Very good, 5) Excellent. Half marks can be used. The threshold for individual criteria will be 3. The overall threshold, applying to the sum of the three individual scores, will be 10.

Time Schedule

17 March 2015	Deadline Submission of pre-proposals
March 2015	Eligibility check
May 2015	Meeting of Expert Panel to assess pre-proposals
May 2015	Invite applicants to submit full proposals
15 September 2015	Deadline Submission of full proposals
September 2015	Eligibility check
November 2015	Meeting of Expert Panel to assess full proposals
December 2015	Funding recommendation by the ENSCC Steering Committee
December 2015	Announcement of results to Main Applicants
December 2015-March 2016	National funding decisions and contracts completed Start of projects

Documentation and forms

All documents (including application forms and procedure guidelines) are published on the Urban Europe website: www.jpi-urbaneurope.eu

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6. Project Implementation and JPI Urban Europe Activities

This call is part of the transnational Joint Programming Initiative Urban Europe which includes various joint programme activities (e.g. knowledge sharing, networking) that are described in this section. Projects funded via this call will become part of the programme of the JPI Urban Europe. Participants of projects funded via this call are expected to actively participate in the programme activities and to consider this in the planning of their project proposal by including budget to participate in the JPI Urban Europe programme activities.

Project monitoring and reporting

Project monitoring and reporting will be in accordance with the respective funding agency's rules. In addition to the respective funding agency's requirements, the consortia are expected to deliver short progress reports to the ENSCC Call Secretariat, in English, on an annual basis, including a description of their transnational cooperation and a publishable summary of the project status. A reporting template will be provided on the programme website.

Twice per project running time (mid-term and final) a detailed survey must be completed by the main applicant. This survey includes key performance indicators for project progress and their contribution to the overall aim of the call.

Furthermore, two project observer from two of the participating funding organisations will be assigned to each of the funded projects to monitor the progress in transnational cooperation on behalf of the participating funding organisations and to provide a communication link between the project, the Call Secretariat, the JPI Urban Europe, the SC MSI and the European Commission.

Programme activities

The coordination of the programme is seen as very important for creating added value to the researchers involved in the programme. Three project events are foreseen. A project kick-off will be organised in 2016, a mid-term event in 2017 and a final event in 2018. Active participation of the funded projects is obligatory, e.g. by preparing short project presentations and/or posters. Additional network events are foreseen.

All consortia of funded projects are expected to prepare popular science summaries of the project contents for programme activities and JPI Urban Europe publications (e.g. for brochures, (digital) newsletters, the website etc).

Time and budget of a maximum of €20.000 should be reserved by the consortium as a whole for monitoring and programme activities.

7. Contacts and Further Information

General information on the joint call

Updated information on this joint call and all relevant documents/templates are published on
www.jpi-urbaneurope.eu.
If you have questions on the general call process and proposal submission, please contact the
ENSCC Call Secretariat.

Johannes Bockstefl
FFG - Austrian Research Promotion Agency
Thematic Programmes Department
Tel.: +43 5 77 55-5042
E-mail: johannes.bockstefl@ffg.at
www.ffg.at

Anke van der Made
NWO - Netherlands Organisation for Scientific Research
Social Sciences
Policy officer
Telephone: +31 70 344 0511
E-mail: a.vandermade@nwo.nl
www.nwo.nl

Contact points of participating funding agencies

For questions regarding specific funding agencies' rules and additional forms please check "Annex
A: Specific funding agencies' rules" first. Additional information can be obtained by contacting the
indicated national contact persons at the participating funding agencies.

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Annex A: Specific Funding Agencies' Rules

Country/Region	Austria
Funding organisation	FFG – Austrian Research Promotion Agency
National contact person	Johannes Bockstefl E-mail: johannes.bockstefl@ffg.at Tel.: +43 (0)5 7755-5042 Website: www.ffg.at
Funding commitment	3.5 M€
Anticipated number of projects with Austrian partners	---
Maximum funding per awarded project	1.5 M€
Eligibility of a partner as a beneficiary institution	The organisations which are eligible for funding as well as the eligibility criteria for cooperation are listed in the national guidelines available via https://www.ffg.at/ausschreibungen/enscc
Eligibility of costs	Eligible costs • Personnel costs • Overhead costs (as surcharge on personnel costs) • Use of R&D infrastructure • Costs of materials • Third-party costs • Travel costs For detailed information visit: https://www.ffg.at/sites/default/files/downloads/page/kostenleitfaden_v1_4_2014.pdf
Submission of the proposal at the national level	No, but specific national forms "Part C" necessary in the full proposal stage. Successful proposals in the full proposal stage must resubmit their national partner application via eCall for transfer into the national electronic submission system.
Submission of financial and progress reports at the national level	Yes, scientific and financial reporting carried out on an annual basis.
Information available at	https://www.ffg.at/ausschreibungen/enscc
Other	We highly recommend to contact the NCP during the preparation of the project.

Country/Region	Belgium, Walloon Region
Funding organisation	Public Service of Wallonia, Directorate-General for Economy, Employment and Research (DGO6)
National contact person	Fabrice Quertain Senior Policy Officer Unit – International Research Department

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	Tél.: +32 (0)81 33.45.68 fabrice.quertain@spw.wallonie.be
Funding commitment	0.3 M €
Anticipated number of fundable research groups	Information not yet available
Maximum funding per awarded project	Not applicable
Eligibility of a partner as a beneficiary institution	Eligible applicants are Walloon Universities and Higher Education Institutions, Companies and Certified Research Centres according to regional funding rules. Maximum funding: 60-80% grant for SMEs, 40% grant for large companies, 100% grant for academia and 75% grant for research centres. Minimum 40% of the Walloon project's budget must be borne by Walloon company(ies). Maximum research project length: 36 months. Additionally to the general criteria developed by the ENSCC programme, DGO6-funded projects will fulfil some general regional criteria: • Each beneficiary develops entirely or partially its activities on the Walloon Region's territory • Each beneficiary will perform research activities • The projects will be innovative and will present a positive impact on the regional economy and employment by valorising research results in the region. All applicants should demonstrate their financial viability and soundness regarding their own contribution to the projects and the implementation of the results.
Eligibility of costs	Eligible costs • Staff costs • Operational costs (incl. coordination costs) • Investment / depreciation costs • Overhead (11-16% of staff + operational costs) • Research-related subcontracting (max 20% of the partner's budget)
Submission of the proposal at the national level	Yes, for the proposals which passed the first evaluation step. A special web page and regional application form dedicated to the ENSCC projects will be available on : http://recherche-technologie.wallonie.be/go/enscc
Submission of financial and scientific reports at the national level	Yes, scientific and financial reporting carried out on an annual basis
Information available at	http://recherche-technologie.wallonie.be
Other	We highly recommend contacting the NCP Wallonie (http://www.ncpwallonie.be) during the preparation of the projects.

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Country/Region	Belgium, Brussels Capital Region
Funding organisation	Innoviris - The Brussels Institute for Research and Innovation
National contact person	Beata Bibrowska Advisor-International projects Unit- Strategic Research E-mail: bbibrowska@innoviris.irisnet.be Tel: +32 (0) 2 600 50 22 Website: www.innoviris.be
Funding commitment	0.5 M€
Anticipated number of projects with Belgian partners (funded by Innoviris)	Information not yet available
Maximum funding per awarded project	Innoviris has not the limits for funding the projects in the in the limits of the assigned budget for the program.
Eligibility of a partner as a beneficiary institution	**Eligibility criteria and funding :** o Private companies established in the Brussels Capital Region with a sustainable activity in this region based upon a sound business model. The entities have not received public funding for the same activities o Brussels Capital Region based universities, research organisations and associations active in urban development can also be funded in ENSCC projects o The regional universities will be funded only if they collaborate with an association or regional private company o The regional associations will be funded only if they collaborate with regional university or private company **Additionally to the general criteria developed by the ENSCC program**, Innoviris funded ENSCC projects will fulfil **some general regional** criteria: o Each beneficiary develops entirely or partially its activities in Brussels Capital Region o Each beneficiary will perform a research activity in the project o The project will be innovative and will present the positive impact on regional economy and employment by valorization of results in the region All applicants should demonstrate their viability and financial soundness regarding their own contribution to the project and the implementation of the results.

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	Are excluded from Innoviris funding the organisations that perform the economic activities and are established in Flanders or Wallonia regions
Eligibility of costs	**Maximum funding rates** <table><tr><td></td><td>**Large enterprises**</td><td>**Medium size enterprises**</td><td>**Small enterprises**</td><td>**Research organisations and universities**</td></tr><tr><td>**Strategic Research**</td><td>N/A</td><td>N/A</td><td>N/A</td><td>100%</td></tr><tr><td>**Industrial research**</td><td>65%</td><td>75%</td><td>80%</td><td>100%</td></tr><tr><td>**Experimental development**</td><td>40%</td><td>50%</td><td>60%</td><td>100%</td></tr></table> **The associations will be funded at the same conditions as private companies** Please consult the size of your company at: http://www.innoviris.be/fr/documents/taille-entreprise.pdf **Eligible costs:** o Personnel costs o Operational costs o Investments costs o Indirect costs (10% of personnel+operational costs) o Subcontracting
Submission of the proposal at the national level	Yes, for the proposals passed by 1st step of the evaluation. A special web page and regional application form dedicated to the ENSSC projects will be developed at www.innoviris.be
Submission of financial and progress reports at the national level	Yes, scientific and financial reporting realised at annual basis
Information available at	https://www.innnoviris.be
Other	We highly recommend to contact the NCP during the preparation of the projects.

Country/Region	Belgium, French-speaking Community

ERA-NET Cofund Smart Cities and Communities

Funding organisation	Fund for Scientific Research - FNRS
National contact person	Freia Van Hee, freia.vanhee@frs-fnrs.be, +32 2 5049309 Joël Groeneveld, joel.groeneveld@frs-fnrs.be, +32 2 5049270
Funding commitment	0.2 M€
Anticipated number of projects with Belgian partners (funded by FNRS)	1
Maximum funding per awarded project	200.000 EUR
Eligibility of a partner as a beneficiary institution	FNRS funds basic research carried out in a research institution from the "Fédération Wallonie-Bruxelles". The applicant must be affiliated to a research institution from the Fédération Wallonie-Bruxelles. FNRS will not fund industrial partners or any activity related to the private sector. The applicant should also be a permanent researcher of F.R.S. - FNRS or hold a tenure track position.
Eligibility of costs	The maximum amount allocated per project is **200.000 EUR**. The following costs are eligible: • **Personnel** • **Equipment (max. 15.000 EUR/year)** • **Running costs: (max. 15.000 EUR/year**) "Overhead" is not an eligible cost. If the project is selected for funding, these costs will be subject to a separate agreement between the institution of the beneficiary and FNRS. General rules and regulations of FNRS apply: www.frs-fnrs.be
Submission of the proposal at the national level	Not required at proposal stage. After the selection of a project for funding a negotiation procedure will take place that requires the submission of administrative documents.
Submission of financial and progress reports at the national level	Financial reports shall be submitted annually to the FNRS, a copy of the joint scientific reports should be sent to the FNRS.
Information available at	http://www.ncp.frs-fnrs.be/index.php/17-appels/141-fnrs-eligibility-criteria-smart-cities-and-communities
Other	**Please note that FNRS does not allow multiple funding; the principal investigator should clearly state how the proposed project differs from other granted projects.**

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Country/Region	Cyprus
Funding organisation	RPF - Research Promotion Foundation
National contact person	Mrs Katerina Karakasidou Malla, +357 22205036, email: kkarakasidou@research.org.cy
Funding commitment	0.2 M€
Anticipated number of projects with Cypriot partners	RPF expects to fund 2 projects
Maximum funding per awarded project	135.000 Euro
Eligibility of a partner as a beneficiary institution	The Host Organisation (HO) the Partner Organisations (PO) of the Cypriot Network could be Research / Academic Organisations, Enterprises or Public Benefit Organisation, located permanently in the areas under the control of the Republic of Cyprus (excluding the UK Sovereign Base Areas). The Cypriot Network can comprise of 1 to 3 partners (including the Host Organisation).
Eligibility of costs	Eligible costs include: Personnel costs, research instruments and equipment, external services (up to 10% of the budget), dissemination costs (up to 2%), travel, consumables, access to infrastructure abroad (up to 10%), overheads (up to 20%) and other costs not included in the aforementioned categories. Expenses for project coordination and management should not exceed 5% of the total project budget. Independent Researchers are only allowed to claim "Personnel Costs" and "Travel Costs" without exceeding the amount of 10.000 Euro.
Submission of the proposal at the national level	No national proposal submission is expected until a project is retained for funding. After the selection of a project for funding a national negotiation procedure will take place that requires the submission of a national proposal, as well as a meeting of the Coordinator of the National Consortium with RPF representatives. Based on the outcome of the negotiation and providing that this is positive, a contract will then be signed between the HO of the Cypriot Consortium and RPF.
Submission of financial and scientific reports at the national level	The submission of an interim report is anticipated, as well as a final report, covering both the scientific, as well as the financial progress of the project. Short six month reports are also foreseen.
Information available at	http://www.research.org.cy

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Other	For Cypriot applicants, the funding rules of the Research Promotion Foundation apply. Please see the relevant National Call for Proposals, which is available on RPF's website.

Country/Region	Finland
Funding organisation	Tekes – the Finnish Funding Agency for Innovation
National contact person	Mr Ilmari Absetz, Ilmari.absetz@tekes.fi, Tel +358 50 5577 837
Funding commitment	1.1 M€
Anticipated number of projects with Finnish partners	3-5
Maximum funding per awarded project	Not Specified.
Eligibility of a partner as a beneficiary institution	Tekes funding is focused on innovation and main target group of funding is Finnish companies. Tekes can fund also Finnish cities and research organisations, but only together with Finnish companies using the parallel project funding scheme.
Eligibility of costs	According to Tekes national principles.
Submission of the proposal at the national level	In stage 2 after Expert Panel evaluation and Steering Committee recommendations for national funding the Finnish partners in projects recommended for national funding are invited to submit a Tekes funding application with short notice.
Submission of financial and progress reports at the national level	Typically 2-3 times annually. Reporting schedule can be adjusted to match the joint consortium reporting to ENSCC Call Secretariat.
Information available at	https://www.tekes.fi/funding/
Other	It is recommended to contact the National contact person already in early stage of project preparation.

Country/Region	The Netherlands
Funding organisation	NWO – Nederlandse Organisatie voor Wetenschappelijk Onderzoek
National contact person	Anke van der Made E-mail: a.vandermade@nwo.nl Tel.: +31 70 344 0511

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Funding commitment	1.3 M€
Anticipated number of projects with Dutch partners	5
Maximum funding per awarded project	€ 250.000
Eligibility of a partner as a beneficiary institution	Senior researchers who are employed at Dutch universities, NWO- and KNAW-institutes, TO2 institutes and HBO institutes may apply for funding and participate in a consortium as main applicant or as co-applicant.
Eligibility of costs	For this programme the general NWO standards are applied. The funding rules for all applicants (including TO2 and HBO institutes) will be in accordance with the VSNU contract in the context of 'overlaten werkgeverschap onderzoeksinstellingen'. For more information and specific requirements please visit our website.
Submission of the proposal at the national level	Yes, after Expert Panel evaluation successful applications are required to submit their proposal at the national level.
Submission of financial and progress reports at the national level	Yes, submission of financial and scientific reports at national level is required in accordance with the rules of NWO.
Information available at	For full details of NWO funding rules, please refer to the JPI Urban Europe website of NWO, or www.nwo.nl
Other	-

Country/Region	Norway
Funding organisation	RCN - The Research Council of Norway
National contact person	Tor Ivar Eikaas E-mail: tie@rcn.no Tel.: +47 92 60 45 24
Funding commitment	2.0 M€
Anticipated number of projects with Norwegian partners	5
Maximum funding per awarded project	-

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Eligibility of a partner as a beneficiary institution	Norwegian research institutions, and Norwegian companies/organisations that have been officially issued an enterprise number under the Register of Business Enterprises..
Eligibility of costs	Relevant project costs such as payroll expenses, procurement of external R&D services, depreciation of equipment used under the project and one or more grants/fellowships and direct project expenses.
Submission of the proposal at the national level	No
Submission of financial and progress reports at the national level	Yes
Information available at	http://www.forskningsradet.no/en/General_application_requirements/1184159007037
Other	-

Country/Region	Portugal
Funding organisation	FCT (*Foundation for Science and Technology*), supported by FAI (Energy Efficiency and Renewable Energy Fund)
National contact person	Marta Abrantes, E-mail: marta.abrantes@fct.pt Tel: +351 213911596
Funding commitment	1.0 M€
Anticipated number of fundable research groups	1-2
Maximum funding per awarded project	900.000€
Eligibility of a partner as a beneficiary institution	Only applications by Portuguese SME companies will be supported. Non-profit organizations are not eligible unless as provided for in "other"
Eligibility of costs	50% of eligible costs. Please refer to FAI regulation (www.fai.pt) and to the specific rules governing this call at www.fct.pt If the demonstration phase takes place in Portugal, eligible costs are increased until a maximum of 70%.
Submission of the proposal at the national level	Yes. For applying for funding by FAI, please fill the national preliminary eligibility check (together with pre-proposal) and the full form (together with full proposal) available at www.fct.pt
Submission of financial and scientific reports at the national level	Yes.
Information available at	www.fct.pt

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Other	Support for non-profit organization is limited to 100.000€ and as long as a Portuguese company is also a relevant partner in the project. Funding priorities: - Projects aimed at energy efficiency and use of technologies associated with renewable energy (e.g. generation, distribution, storage); - Projects with added value, i.e. with a multiplying effect, and prone to attracting investment and generating exports; - Projects that contribute to the implementation of national energy policy and existing national plans. - Technology readiness level (TRL) from 6 (inclusive) onwards.

Country/Region	Romania
Funding organisation	UEFISCDI
National contact person	Mircea Segarceanu E-mail: mircea.segarceanu@uefiscdi.ro Tel.: +4021 302 38 83
Funding commitment	755.000 EUR
Anticipated number of projects with Romanian partners	NA
Maximum funding per awarded project	250.000 EUR
Eligibility of a partner as a beneficiary institution	Legal entities established in Romania are eligible to get funding - public and private accredited universities, national R&D institutes, other research organisations, SME' s, large industrial enterprises
Eligibility of costs	Personnel costs, consumables, equipment, subcontracting, travel, overhead.
Submission of the proposal at the national level	Not required
Submission of financial and scientific reports at the national level	Yearly basis
Information available at	http://uefiscdi.gov.ro/userfiles/file/comunicare/UEFISCDI_funding%20national%20regulations%20.pdf
Other	-

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Country/Region	Spain
Funding organisation	CDTI – Centro para el desarrollo tecnologico industrial
National contact person	Javier Echavarri Email: Javier.echavarri@cdti.es or DPTOETFSD@CDTI.ES Tel.: +34 91 5810707 or +34 91 5815500 Raul García Email: raul.garcia@cdti.es Tel.: see above
Funding commitment	1.5 M€
Anticipated number of projects with Spanish partners	<8
Maximum funding per awarded project	NOT STABLISHED
Eligibility of a partner as a beneficiary institution	Companies established and carrying out R&D activities in Spain. Universities and Research Institutions can participate as subcontractors of Spanish companies.
Eligibility of costs	Personnel, Instrument and Material, Contractual research, Technical knowledge and Patents consulting and equivalent services intended exclusively for the research activity. Other operating expenses derived from the research project.
Submission of the proposal at the national level	Yes
Submission of financial and progress reports at the national level	Yes
Information available at	http://WWW.CDTI.ES
Other	Minimum budget € 175.000 The length of these projects must be from 12 to 36 months.

Country/Region	Sweden
Funding organisation	Swedish Research Council Formas
National contact person	Kristina Björnberg E-mail: kristina.bjornberg@formas.se Tel.: +46 87754052 Mobile: +46 704920623

Funding commitment	1.5 M€
Anticipated number of projects with Swedish partners (funded by Formas)	3-5
Maximum funding per awarded project	-
Eligibility of a partner as a beneficiary institution	Grants can only be administered by Swedish universities, university colleges, research institutes or authorities with research undertakings.
Eligibility of costs	See Formas Handbook 2014, 10. Finances. Joint funding (around 25 % of project cost) from commercial sector or other planning and building actors such as municipalities or stakeholder organizations) is a prerequisite.
Submission of the proposal at the national level	For full proposals a National Budget Appendix will be required specifying direct and indirect costs and national co-financing.
Submission of financial and progress reports at the national level	End of project
Information available at	https://www.formas.se or https://www.formas.se/en
Other	The applicant must have a doctoral degree.

Country/Region	Sweden
Funding organisation	Swedish Energy Agency
National contact person	Emina Pasic E-mail: emina.pasic@swedishenergyagency.se Tel.: +46 16 544 21 89
Funding commitment	2.0 M€
Anticipated number of projects with Swedish partners (funded by SWEA)	4-8
Maximum funding per awarded project	-
Eligibility of a partner as a beneficiary institution	The Swedish Energy Agency potentially supports all private and public applicants, namely: Large Enterprises LE; Small and Medium-sized Enterprises; Public Research Institutions; Research Organisations; other types of organisations.

Eligibility of costs	Funding of enterprise RTD and other applicants are subject to Swedish legislations *Förordning om statligt stöd till forskning och utveckling samt innovation inom energiområdet* (SFS2008:761).
Submission of the proposal at the national level	National application forms required in the full proposal phase. Further information can be obtained from the website or national contact points. http://www.energimyndigheten.se/Forskning/Sok-stod-for-forskning-och-teknikutveckling/
Submission of financial and progress reports at the national level	A one financial and project report annually, following plan in the national project decision.
Information available at	www.energimyndigheten.se or www.swedishenergyagency.se
Other	-

Country/Region	Sweden
Funding organisation	VINNOVA - Swedish Governmental Agency for Innovation Systems
National contact person	Rebecka Engström E-mail: rebecka.engstrom@vinnova.se Tel.: 0046 84733169
Funding commitment	1.1 M€
Anticipated number of projects with Austrian partners (funded by Vinnova)	2-4
Maximum funding per awarded project	-
Eligibility of a partner as a beneficiary institution	All Swedish organisations (juridisk person) are eligible.
Eligibility of costs	For the project in total, maximum 50% of the costs for the Swedish parts can be applied for. Level of support can differ between different partners. See the following documents for guidelines: VINNOVA's General Terms and Conditions for Grants Guide till VINNOVAs villkor om stödberättigande kostnader Statligt stöd till forskning och utveckling samt innovation
Submission of the proposal at the national level	For full proposals a National Budget Appendix will be required specifying e.g. direct and indirect costs and co-financing for Swedish partners. Template for the Appendix will be made

	available online in due time. Projects with partners applying from VINNOVA, which are finally recommended to be granted funding after the evaluation process, will have to submit the application via VINNOVAs Participant Portal. This is by invitation only and concerns only proposals with high rank in the evaluation of full proposals.
Submission of financial and progress reports at the national level	Two times a year, following plan in the national project decision.
Information available at	www.vinnova.se OR http://www.vinnova.se/en/
Other	-

Country/Region	Switzerland
Funding organisation	Department of the Environment, Transport, Energy and Communications DETEC, Represented by the Swiss Federal Office of Energy SFOE
National contact person	Andreas Eckmanns E-mail: andreas.eckmanns@bfe.admin.ch Tel.: +41 58 462 54 61 www.bfe.admin.ch
Funding commitment	2.0 M€
Anticipated number of projects with Swiss partners	5-10
Maximum funding per awarded project	€ 1.000.000
Eligibility of a partner as a beneficiary institution	All legal entities which can proof the necessary competences may apply for funding and participate in a Smart Cities consortium as main applicant or as co-applicant.
Eligibility of costs	Up to 100% of labour cost according to SFOE standard conditions. Third party contributions are desirable.
Submission of the proposal at the national level	Yes, submission of pre-proposals as well as full-proposals is required.
Submission of financial and progress reports at the national level	Yes, submission of financial and scientific reports at the national level is required to obtain payments.
Information available at	http://www.bfe.admin.ch/forschunggebaeude

Other	-

Country/Region	Turkey
Funding organisation	The Scientific and Technological Research Council of Turkey (TÜBİTAK)
National contact persons	**For general information** Ilknur Yilmaz E-mail: ilknur.yilmaz@tubitak.gov.tr Tel.: 00903124685300(Ext.3926) **1509-International Industrial R&D Projects Grant Programme** Burak Sisman E-mail: burak.sisman@tubitak.gov.tr Tel.: 00903124685300(Ext.1547) **1001-The Support Program for Scientific and Technological Research** Arzu Kepoglu E-mail: arzu.kepoglu@tubitak.gov.tr Tel.: 00903124685300(Ext.1201) www.tubitak.gov.tr
Funding commitment	1.0 M€
Anticipated number of projects with Turkish partners	9
Maximum funding per awarded project	- 1509 Programme: No limit - 1001 Programme: 360.000 TL (as of 2014) excluding payments to the principal investigator (PI), Co-PI's and overhead costs.
Eligibility of a partner as a beneficiary institution	- 1509 Programme: SMEs and large companies settled in Turkey - 1001 Programme: Applicants from universities, R&D institutes, public and private corporations settled in Turkey
Eligibility of costs	- 1509 Programme: Personnel, travel, equipment/tool/software, R&D services from domestic RTOs, consultancy/other services, material costs - 1001 Programme: Scholarships, travel & subsistence, equipment/tool/software and materials, consultancy/other services, field study costs

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Submission of the proposal at the national level	- 1509 Programme: Separate national full application required - 1001 Programme: Only the national project budget form and CVs of the project personnel required
Submission of financial and progress reports at the national level	- 1509 Programme: The company would provide the scientific and financial reports to TUBITAK semi-annually during the project duration - 1001 Programme: First financial and scientific report is taken after a year, and other report periods will be determined with the duration of the project (http://www.tubitak.gov.tr/tr/duyuru/ardeb-projelerinde-gelisme-raporu-degisikligi)
Information available at	- 1509-International Industrial R&D Projects Grant Programme, http://www.tubitak.gov.tr/tr/destekler/sanayi/uluslararasi-ortakli-destek-programlari/icerik-1509-tubitak-uluslararasi-sanayi-ar-ge-projeleri-destekleme-programi - 1001-The Support Program for Scientific and Technological Research Projects, http://www.tubitak.gov.tr/tr/destekler/akademik/ulusal-destek-programlari/icerik-1001-bilimsel-ve-teknolojik-arastirma-projelerini-destekleme-pr
Other	-

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Annex B: Research, development and innovation activities

ENSCC gathers a wide range of funding agencies from a total of 12 countries, each with its own history, ministerial instructions, and strategic focus. This diversity offers ample opportunities for sharing experiences and learning from each other, but it also comes with some administrative and conceptual challenges when planning a joint call.

One simple but important component in managing our differences is to establish a common terminology for the various stages in the Research and Development system. In the following, a table is presented that attempts to define three positions in the Research and Development system by addressing some key characteristics.

Table 2: Definitions of strategic research, applied research, and innovation

	Stategic research	Applied research	Innovation
Desired impact	Advance towards answering the question "*How do cities really function?*", in a way that can be generalised and add to the universal body of knowledge about cities, and serve as a foundation for future research.	Advance towards answering the question "*What works, when attempting to improve cities?*" in a way that can be generalised enough to serve as useful knowledge for decision-makers and practitioners.	Advance towards the implementation, demonstration, testing and uptaking of approaches for new products, services, policies, practices, and processes, with potential for improving economic, social, or environmental sustainability in European cities.
Importance of generating results fitting for publication in reputable academic journals	Highest importance	Very important	Encouraged
Methodological approach	Rigorous scientific method including methodological advancement	Scientific method including methodological advancement	Systematic approach
Foundation of work on evaluation and analysis of empirical observations	Encouraged	Encouraged	Required
Involvement of practitioners and/or target audience	Accepted	Encouraged	Required
Role for applying *Smart Cities Living Labs*	Rarely fits	Welcome	Encouraged
Role for policy research	Rarely fits	Fits well	May fit
Role of inter-disciplinarity	Encouraged		
Academic disciplines expected in project	All welcome		
Preference for qualitative or quantitative methods	Both welcome		
Main background of evaluators for project assessment *(evaluators assigned*	Well-respected university researchers	Well-respected researchers with strong experience on utilization of research results and	Representatives of companies, cities and other relevant stakeholders

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to assess the other project categories will be included vice versa)		Representatives of companies, cities and other relevant stakeholders with strong research background	

Annex C: Smart Cities Living Labs

Projects with ENSCC may employ an approach to research we have chosen to call *Smart Cities Living Labs*. This concept can be defined as follows: It is a forum for innovation, applied to the development of new products, systems, services, and processes, employing working methods to integrate people into the entire development process as users and co-creators, to explore, examine, experiment, test and evaluate new ideas, scenarios, processes, systems, concepts and creative solutions in complex and real contexts.

In the first two pilot calls of the JPI Urban Europe a number of projects which will employ Living Labs were granted funding. For more information and the abstracts of these projects, see the results of the pilot calls: http://jpi-urbaneurope.eu/activities/calls/

The following points describe the characteristics of Smart Cities Living Labs:

- A Smart Cities Living Lab brings in expertise from several academic disciplines, and integrates them deeply together. The research process is designed not only to add the result from the various disciplines, but also to connect them together to form cycles of learning and feedback. This enables more learning for all parties involved than the simple serial connection of a process from one discipline being followed by a process from another discipline.

- While embracing the fluidity, the openness to serendipity, and the iterative nature of working across disciplines, organisations and sectors, a Smart Cities Living Lab maintains the rigour and orderliness characteristic for scientific method. Constituted by the appropriate methods, knowledge and expertise, the methods applied facilitate the creation of knowledge which is transferable to new areas and new markets.

- A Smart Cities Living Lab may contain activities representing all the steps from strategic research to innovation. The major part of its effort is however at the later stages of the innovation process, in innovation and to some extent applied research.

- A Smart Cities Living Lab involves partners representing more than one sector of society other than academia, e.g. a municipal government, a private company, or a non-governmental organization. It is a forum for research and discovery, that by its design if open for learning and exploration in any direction, between any combination of participants.

- A Smart Cities Living Lab is based on users and other stakeholders being co-creator in a systematic way in the innovation process. The users involved are those who are or would be affected in a real situation, with all their experience and expectations available and made useful in the project. Note that this goes far beyond what might be achieved by adding a reference group or panel of users to a traditional research project. In a Smart Cities Living Lab, users are deeply and actively involved from the early stages of the project, and the research is by its design open for surprises and learning that originates from the users involved.

- Users in a Smart Cities Living Lab may refer to both end users of a product or service or other relevant stakeholders, or those involved in service provision. The needs of end users resp. other relevant stakeholders and the working conditions of service providers are both recognized, in their respective context.

- A Smart Cities Living Lab is located right where the process being addressed takes place, in real time and in the real context of the process. When presented with the results from an Smart Cities Living Lab, nobody will have to ask "But will it work in reality?" because it is already taking place in reality.

The Living Lab concept has successfully been tested in the ICT sector, and is used, for example by the Massachusetts Institute of Technology, in fields such as poverty, health, energy and creative work. As a method, the Smart Cities Living Labs concept is applied to urban areas to design a Research and Innovation system, which deals with the multi-dimensional challenges in urban areas.

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If successfully implemented, a Smart Cities Living Lab helps promote close collaboration between scientists, politicians, business and civil society. Its innovative approach gives different actors the opportunity to influence and change the current arena through research involving interaction and learning processes. In this way sustainable urban development can be concretized, tested and translated into real life situations where questions about what constitutes social, cultural and ecological sustainability are included.

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