

Cross-KIC City Data Spaces Call for Cross-KIC Sustainable Cities

This document covers applications for funding under SGA2020

Call Announcement: Wednesday 10 June 2020

Call Opens:

- Wednesday 10 June 2020

Deadline:

- 1700hrs CEST, Tuesday 30 June 2020

Document includes:

Call description and guidelines

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Instructions and process description

Background

In 2050, two thirds of the world population will live in cities, consuming over 70% of energy and emitting just as much greenhouse gases. As city populations grow, the demand for services but also pressure on resources will increase. This demand puts a strain on energy, water, waste, mobility, and any other services that would be essential to a city's prosperity and sustainability. The use of digital and telecommunication technologies in European cities will turn traditional networks and services more efficient, benefitting European inhabitants and business. Digitalisation is key to more interactive and responsive city's administration, and therefore it is an essential management tool for City Councils when targeting decarbonisation goals towards sustainable, resilient cities.

The KICs community clearly represent one of the most relevant stakeholders able to support/catalyse sustainable, resilient European cities. EIT Digital and EIT Climate KIC unite as part of the Cross-KIC activity Advanced Climate Resilient, Sustainable Cities for radical redesign of fundamental city functions and the services needed for sustainable, adaptive, and resilient cities and human settlements. Such activity foresees to pilot with three European cities part of the cohort of EIT Climate KIC [Health, Clean Cities Deep Demonstrations](#), within the framework of its Transformation, in Time.

The Healthy, Clean Cities Deep Demonstration towards carbon neutral cities by 2030 is the perfect scenario to introduce the expertise and community of EIT Digital towards the implementation of City Data Spaces for systemic change. City Data Spaces bring together public, private, and personal/social data on key decarbonisation activities, and therefore are crucial not only to ensuring better resource use and less emissions, but also to striving for sustainability through smarter urban transport networks, upgraded water supply and waste disposal facilities, and more efficient ways to light and heat buildings.

The call is addressed to EIT Digital and EIT Climate-KIC communities for the implementation of City Data Spaces in the city of Madrid.

1. Who can apply

All existing partners of participating KICs (EIT Digital and EIT Climate KIC) are eligible to apply.

This call is designed for individual partner applicants, so no consortia will be eligible.

Please note that UK Partners and Linked Third Parties, and consortiums involving UK entities are advised to read the communications issued by EIT Climate-KIC regarding eligibility and the UK's exit from the EU detailed under the Brexit section on the website.

This call is made available to prospective applicants through the participating KICs websites and internal communication channels.

2. Aim and Content

The use of digital and telecommunication technologies in decarbonisation efforts by cities is crucial to achieve carbon neutral cities by 2030. The implementation of City Data Spaces will ensure the necessary data for city's administrations towards sustainable, resilient cities through systemic change. Partners of EIT Digital and EIT Climate KIC are invited to submit proposals for contributions to this activity, whose purpose is to design, implement and populate City Data Spaces in the city of Madrid.

There is a need for a digital layer to address Madrid city performance towards systemic change in terms of decarbonization and climate resilience. Therefore, an innovative coherent data-based approach is required to gather urban data and interpreting the sustainability trend aligned to Madrid city climate policies and commitments. The City Data Space should use different sources of data assets (public, private from utilities or IT companies, personal etc.) to accomplish a new perspective for looking ahead in the pathway to climate neutrality. Such data should cover main activities responsible of GHGs emissions (urban mobility, residential and commercial buildings, waste treatment etc.) and should be fine-tuned to better reflect the impact of urban experiences or behaviours of specific zones/neighbourhoods. It is essential also to gather social qualitative data, which are often missing and represent very relevant information to understand levers of change and existing barriers in citizens' behaviour, to build upon them a solid and supportive narrative for Madrid city climate policies. The climate City Data Spaces should finally cover data on vulnerability related to climate risks (heat waves, loss of biodiversity, extreme weather events) and resilience through climate adaptation measures, e.g. green infrastructures, and co-benefits of existing nature-based solutions. Therefore, it is key that the City Data Spaces explore and measure non classic emission data sources to enable the city administration to act towards carbon neutrality.

City Data Spaces are cloud data and service marketplaces that allow for acquiring, storing, and publishing data. This is a call for City Data Spaces for Madrid city in relation to the experiments included in the Madrid Health, Clean Cities Deep Demonstration of radical climate action. Such City Data Spaces should therefore work on primarily but not limited to:

- Urban mobility and lifestyle.
- Public space, building environment and neighborhood retrofit.
- Urban naturation.

The City Data Spaces must follow the principles of the [European Strategy for Data](#), including:

- Data Acquisition and Quality Management
- Support Public, Private and/or Personal Data
- Governance Framework
- Interoperability and Data Sharing Tools and Services

3. Output and deliverables

The winning applicant should develop City Data Spaces for Madrid city around their experiments in the *Health Clean Cities Deep Demonstration* including:

- Architecture, Model and Design for Data Space on a Particular Topic(s);
- Master Data Management and Integration (with other spaces);

- Data Management - Governance, Quality and Security; and
- Running City Data Space.

Additionally, the winning applicant will deliver potential ideas on running Apps or business on top of the City Data Space that will be aligned with the Madrid *Health Clean Cities* Deep Demonstration aforementioned experiments, and will show added value in terms of potential creation of side-business to them.

Sustainability of the City Data Space beyond the scope of the innovation activity is required. Therefore, data and related infrastructure need to be supported by all relevant stakeholders based on a feasible business model. Besides, an expected deliverable is the development and refinement of 'Business Plan', with explicit milestones for operational and financial sustainability, funding diversification, and early-stage and commercial-scale market activities.

4. Funding specification

Funding will be provided to cover the costs of activities necessary to generate the deliverables.

The winning applicant will follow the administrative rules of its partnering KIC; however, considering there are a number of partners participating in both EIT Digital and EIT Climate KIC, the winning applicant participating in both KICs should choose the one doing the administrative follow up of the project.

The technical follow up will be carried out by the Cross-KIC group on Sustainable Cities through a kick-off meeting (possibly online due to COVID19) and monthly online meetings to ensure the correct development according to the Cross-KIC group requirements.

Note that, unlike for the 'standard' KAVA projects:

1. There is no requirement to contribute KCAs (KIC Complementary Activities). However, it is recommended to do so.
2. Cross-KIC Group intends to take an active role for the technical follow up of the project; details to be agreed with the winning applicant.
3. The following cost categories do not apply:
 - a. Cost of large research infrastructure
 - b. Equipment and infrastructure depreciation
 - c. Prizes
 - d. Scholarships
 - e. Unit costs EIT labelled Master programmes (AVSA)
 - f. Unit costs EIT labelled PhD programmes (AVSA)

The maximum EIT contribution per project will be € 70.000,00 with a maximum reimbursement rate of 65%, equivalent to a minimum co-funding requirement of 35%, of total eligible costs. (Therefore, for projects requesting €70,000 of EIT contribution, co-funding of a minimum €37,693 – total costs €107,693. See below for more information on reimbursement rates.

5. Other conditions and information

- Pre-financing is subject to the rules, timeline and availability of funds of the corresponding KIC.
- All the funds awarded in this call must be fully expended by 31 December 2020.
- All activities supported in this call must be fully completed by 31 December 2020.
- The proposal selected in this Cross-KIC Call needs to follow the regular Business Plan reporting cycle and rules.
- Each proposal must have City Data Spaces for Madrid city around their experiments in the Health Clean Cities Deep Demonstration, and a report on potential ideas on running Apps or business on top of the City Data Space showing added value in terms of potential creation of side-business. The City Data Spaces will include:
 - Architecture, Model and Design for Data Space on a Particular Topic(s);
 - Master Data Management and Integration (with other spaces);
 - Data Management - Governance, Quality and Security; and
 - Running City Data Space.
 - Business Plan
- The proposal must include a kick-off meeting (potentially online) with Cross KIC Group and follow-up meetings every month.

6. Eligibility and Selection Criteria

Eligibility

- Proponents are existing partners of participating KIC(s)
- A maximum reimbursement rate of 65% (therefore minimum co-funding of 35%)
- A maximum EIT Contribution of €70,000

Proposals that do not meet the eligibility criteria will be informed that they will not progress to the next stage of assessment. Please note: the Cross-KIC Group retains the right to follow-up with prospective proponents should questions arise regarding the eligibility of the submission.

MAX. DURATION	MAX. REQUEST annum	EIT Per	MAX. REIMBURSEMENT RATE	EIT	MIN. FUNDING (total project costs)	CO-	OTHER
Completed by end of 2020	€70,000		65%		35%		Partner of one of the participating KICs and EIT Partner
							Individual partner applications only – no consortia-based applications

Please note that all else being equal, proposals with a lower EIT Reimbursement Rate will be favoured.

Selection criteria

Proposals will be evaluated by the Cross-KIC Group using the criteria listed below. Based on the evaluations and the overall available funding, the Cross-KIC Group will rank the proposals and select the winning proposals. The total maximum score for a project is 15 (3 criteria, each with a maximum score of 5).

In addition to the eligibility criteria, the following criteria will apply (note Appendix 1 for specific aspects):

Maximum score	Description of criteria
5	<p>1. Strategic importance for the Cross KIC initiative in Sustainable Cities including but not limited to:</p> <ul style="list-style-type: none"> • Overall rationale for the project’s strategic importance • Contribution to the Cross-KIC portfolio that is in line with its strategic objectives
5	<p>2. Experience, expertise and budget allocation</p> <ul style="list-style-type: none"> • Details of how your organization is capable of performing the project • Profile of the team members • Related past projects that demonstrate the level of experience • Details of how the funds are to be used: clear budget plan and timeline with justification; value for money • Clear and detailed definition and description of outputs and deliverables • Clear communication, dissemination and outreach plan (stakeholders and citizens)
5	<p>3. Quality and impact</p> <ul style="list-style-type: none"> • Definition of aims, objectives and deliverables and their relevance to the Cross-KIC Sustainable Cities. • Clear and detailed description of the project structure including tasks and Management strategy (including Kick off, regular online meetings and final meeting) • Demonstration of the project’s added value: realistic assessment of the expected contribution that the project will make to the impact of the KICs in relation to the requested budget • Contribution to the EIT core KPI’s (only) (link to EIT Climate-KIC KPIs for reference – see KPIs with prefix: EITN0#) • Product and/or service market potential; • Commercialization plan and KIC financial participation potential (for more information regarding financial participation of participating KICs, please reach out to the relevant KIC)

Evaluation scale: In relation to each of the criteria above, the score ranges from 0 to 5 according to the following scale:

0	Non-existent: no relevant information provided in the application file or cannot be judged because out of range/scope
1	Very poor: The criterion is addressed in a very incomplete and unsatisfactory manner
2	Poor: There are serious inherent weaknesses in relation to the criterion in question
3	Fair: The criterion is somewhat addressed, but there are significant weaknesses
4	Good: The proposal addresses the criterion well, although some improvements are possible
5	Excellent: The proposal successfully addresses all relevant aspects of the criterion in question. Any shortcomings are minor only.

The applicants of the projects selected for funding will be informed by the Cross-KIC Group after approval.

7. Proposal submission and evaluation

Proposals should be submitted by email by attaching the proposal documents to: businessdesk@climate-kic.org. It is mandatory to include in the subject of the email "Cross KIC call Madrid" Proposals that are not properly identified in the title field of the email risk not being tracked and included. Successful project proposals will be required to adhere to the participating KIC's grant specification and reporting requirements – this may require further elaboration on the project particulars such as work plans, budgets, cost descriptions, outputs and deliverables, KPIs (EIT and KIC-specific) etc. Please note: successful projects will need to be uploaded to the respective KIC's grant management system. Project details will need to be fully scoped and completed, as per the system requirements. For example, additional workplan and budget details may be required.

Proposals will be reviewed by external experts affiliated to the City Council of Madrid, and eventually evaluated by Cross KIC team.

For additional information, please contact Jesus Contreras (jesus.contreras@eitdigital.eu) or Natalia Vera (natalia.vera@climate-kic.org).

Opening call:	Wednesday 10 June
Closing call:	1700hrs CEST, 30 June 2020
Evaluation:	July 2020
Decision Notification:	28 July 2020
Start project:	latest 1 September 2020
Finalise project:	31 December 2020 (latest)

8. Your data and Confidentiality

Access to the project proposals will be given to all the KICs participating in this Cross-KIC action. The title and scope of the project will be shared within the KICs communities and will be made publicly available (e.g., on the KICs web site, in presentations at conferences etc.).

Your Data

All applicants will have to accept EIT Climate-KIC's [General Terms and Conditions](#) which also includes, in particular, related [Privacy policies](#) and [Acceptable Use policies](#) and warrant and represent that they have the authority to agree and accept these on behalf of the named organisation. Personal data provided may be processed, including sharing with other organisations, by EIT Climate-KIC and certain sensitive data elements will be visible to other partners or potential partners of EIT Climate-KIC. The named partner organisation or potential partner of EIT Climate-KIC warrants and represents that in providing personal data in connection with the proposal, the data subjects have consented to the provision of this personal data and the processing of it by EIT Climate-KIC in the manner indicated in accordance with Privacy policies, and that the partner organisation or potential partner of EIT Climate-KIC provides the personal data in accordance with applicable law.

Confidentiality

EIT Climate-KIC will treat your proposal confidentially, as well as any related information, data and documents received in accordance with our Privacy Policy or as otherwise indicated throughout the proposal form (i.e. public summary). Independent expert reviewers or evaluators are also bound by an obligation of confidentiality.

Please pay attention not to attempt to discuss your proposal with persons you believe may act as an independent expert for KICs participating in this Cross-KIC action.

Appendix 1- recommended aspects for the City Data Spaces

- Support for the design, implementation, and control of public policies and private or public-private partnership initiatives plans and actions to improve urban climate sustainability and resilience.
- Range of data sources used, both quantitative and qualitative, and mechanisms to facilitate both the inclusion of new data sources and the guarantee of data supply.
- Functionalities for the use of City Data Spaces in participative processes for public policy plans and initiatives and new local regulations, i.e. public information and participation processes for the creation of new municipal plans or regulations, and [citizen's initiatives](#).
- Business model, exploitation plan, access requisites and overall conditions to make sure that the proposed City Data Spaces are themselves sustainable initiatives.
- Conditions and mechanisms to facilitate the structured and permanent integration of a wide range of social, economic and political stakeholders participating in the definition, design, implementation and control of public and private initiatives on climate sustainability and resilience.
- Specifically, conditions to facilitate the participation, both as data providers and users, of public and private city mobility and environmental services' operators.

- Multi-dimensional scope, including not only environmental but also social and particularly economic related data (employment, growth, commerce, and alike activities).
- Openness - use of transparent and open technical standards and participation conditions.
- Fulfillment of open data standards and structured synergies between the proposal and the [City Open Data platform](#) and other open data initiatives, both public and private.
- Fulfillment of Smart City standards, and integration capacity with the City of Madrid Smart City initiative ([MiNT Project](#)).
- Powerful geo-referencing of data.