Select for Cities

Grant Agreement Nº 688196

City Enabler Hackathon
(Terms and Conditions for Participation)
City of Helsinki Edition

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1 About Select4Cities and City Enabler

1.1 Select4Cities Project

Select4Cities is a European Pre-Commercial Procurement Project aimed at developing a data-driven, Internet-of-Everything (IoE) platform for large-scale urban co-creation. The SELECT for Cities competition is built around the premise that cities across the world are seeking new methods, technologies and tools to foster open innovation to solve challenges, create value for their citizens and business, and to become 'smart cities'.
Internet of Everything (IoE) is one of the dominant drivers transforming the way people manage and live in urban environments. This new connected approach involves physical spaces as well as objects and provides a massive opportunity for the creation of new smart services and businesses especially in the areas of logistics, transport, environment, security and wellbeing. However, IoE progress to date has been slow due to a number of barriers such as the lack of common standards, a fragmented marketplace, and lack of ways to systematically test and introduce new solutions in the cities.
To combat this challenge, and accelerate innovation, Select4Cities ran a competition open to European companies to develop an open, standardized, data-driven, service-oriented and user-centric platform that enables large-scale co-creation, testing and validation of urban IoE applications and services.
More information about Select4Cities can be found here: http://www.select4cities.eu

1.2 City Enabler Ecosystem

The City Enabler (CE) is one of the three IoE Platforms selected in the PCP process to be tested and validated in real-world scenarios in the cities of Helsinki and Antwerp.
The consortium behind the City Enabler is composed by:

- Engineering Ingegneria Informatica (www.eng.it)
- ATC Intl (http://www.atc-intl.eu/about-us/)
- EIT Digital (https://www.eitdigital.eu)
- AALTO University (http://ckir.aalto.fi/)

The City Enabler provides a great opportunity to generate value upon the heterogeneous data spread across the city by:

- Collecting data from different sources and combining them for better quality info;
- Providing different visualization for making data understandable;
- Sharing the data between different actors and services;
- Connecting various IoT devices and integrating to existing dashboards, apps and external services;
- Integrating with the city's monitoring and planning procedures;

- Enabling new innovative solution development through an open platform (e.g. open APIs).

More information about the City Enabler can be found in the dedicated Handbook, here: http://digitalenabler.eng.it/hackathons/helsinki/Select4Cities_CE_Handbook.pdf

2 City Enabler Hackathon

2.1 Goal of the Hackathon

The goal of this Hackathon is to enable the creation of new innovative applications and services upon the City Enabler for addressing the issues and challenges related to the **Mobility and Traffic Management** of the City of Helsinki. Participants are expected to:

- use the City Enabler tools (at least, Dashboard manager, see provided CE components):
- use at least three data sources (see provided data sources)
- build at least one complete and user friendly dashboard supporting in decisions the City Managers, related to at least one theme

2.2 Beneficiaries and eligibility conditions

The participants of this City Enabler Hackathon are individual or groups of developers. The following conditions must be met by participants:

- Each participant can be an individual or a group of people
- Participants cannot be members of Select4Cities and City Enabler consortium or having participated at any time and manner in it;
- English is mandatory (Finnish is a plus);

The Hackathon selection committee reserves the right to disqualify any submission that violates any of the points above. Disqualified submissions will not be reviewed and will receive no feedback.

2.3 Prizes

Selected proposals submitted by individuals/groups will receive:

- **1st prize: 1000€**
- **2nd prize: 500€**
- **3rd prize: 300€**

The prizes will be given as **Amazon gift cards**.

3 Resources

3.1 Datastreams

An overview of all currently identified data streams can be found below.

Nr	*Data*	*Description*	*Source*
1	Noise data	FVH real time noise data from 5-10 noise sensors and historical data. No authorisation needed, free access.	https://ngsi.fvh.fi/v2/entities?options=keyValues&type=NoiseLevelObserved http://iot.fvh.fi/downloads/noise/ https://iot.fvh.fi/grafana/d/mnWQ_DOiz/melumittarit-noise-sensors?refresh=1m&orgId=6
2	City open data	600+ datasets that are available for everybody from Helsinki Region. No authorisation needed, free access.	https://hri.fi/en_gb/
3	Air quality open interface	Air quality open data. API key is needed from https://ilmatieteenlaitos.fi/latauspalvelun-pikaohje	data.fmi.fi http://opendata.fmi.fi/wfs?REQUEST=GetFeature&VERSION=2.0.0&SERVICE=WFS&storedquery_id=fmi::forecast::enfuser::airquality::helsinki-metropolitan::grid
4	Air quality station - ENFUSER	Stations for measuring air quality and model for scaling to entire city	http://silam.fmi.fi/
5	Open data and interfaces including air quality	Different kind of open data from Helsinki Region Environmental Services Authority HSY	www.hsy.fi/avoindata https://kartta.hsy.fi/

6	GIS data	Helsinki region GIS data	https://hri.fi/en_gb/helsinki-region-gis-data-freely-at-your-disposal/ kartta.hsy.fi/geoserver/wms
7	Living Lab Bus	The Living Lab Bus project facilitates the use of a real electric bus fleet as a test bed, providing lots of data as well as the opportunity to install and test new hardware.	http://livinglabbus.fi/llb-buses-devices-data/ http://livinglabbus.fi/developer-portal/
8	Street maintenance data of Jätkäsaari	Arcventure/developer Leo Salomaa can provide data like traffic loads, road weather, speed limits and also predictions of road friction (usually ice on the road).	Arcventure/third party developer Leo Salomaa: E-mail: salomaa.leo@gmail.com Phone: +358 50 5509028 Please contact Leo Salomaa for more information.
9	Info screen used for showing information from the platforms	Huutokonttori building/library of Jätkäsaari has an info screen which can be used for showing contractors' platform/information from the platforms (for example via slide show/powerpoint presentation)	Huutokonttori/library of Jätkäsaari Contact person: FVH/Tiina Inki tiina.inki@forumvirium.fi Please contact Tiina for more information.

4 The Process

The City Enabler Hackathon process is organized as follows

- Proposals can be submitted during the hackathon day on 14 March 2019.
- Selected applicants will be informed in the late afternoon on 14 March 2019.
- The consortium will collect feedback and lesson learned about the CE and the implemented app/feature from selected applicants.

4.1 Selection of Applications

All applications will be evaluated according to the criteria and related thresholds specified below. A maximum of 3 proposals will be selected.
The evaluation and selection will be performed by the Selection Committee, consisting of representatives of the CE Team.

The evaluation criteria are as follows:

A. **Innovativeness**: the degree of innovativeness of the idea (i.e. in terms of its Scientific and Technological Excellence) to be implemented.
B. **Impact and sustainability**: business impact on the City's ecosystem and its contribution to meeting a strategic demand of the City, including business viability in terms of need being addressed/problem being solved, market size, demand, etc.

Each criterion will be assessed on a scale 1-10, with threshold 6. Proposals scoring at or higher the threshold for each criterion will be assigned a final score obtained through the weights specified in the table below and then ranked accordingly. Proposals scoring lower than the threshold on any criterion will not be considered any further.

Criteria	**Innovativeness**	**Impact and sustainability**
Value range	1 – 10	1 – 10
Threshold	6	6
Weight	40%	25%

Table – Acceptance and Evaluation Criteria

4.2 Execution of the Project and Feedback Gathering

A training webinar is available on-line to help Hackathon participants to engage with the platform and the tools (https://youtu.be/5v8OAp3akUI).

Each group of participants will be provided with an account to access the City Enabler end use it: http://digitalenabler.eng.it
After the implementation of the Hackathon, participants will be asked to evaluate the CE and the implemented app/feature through interviews and surveys in order to identify lessons learned and identify new interesting features.

4.3 Deliverables

Applicants will deliver their application on March 14th, 2019.
They are requested to deliver:

- A live demo presenting the work done.

4.4 Evaluation of the Results

The deliverable will be evaluated by the Selection Committee in order to assess the quality of the delivered application/features.

5 Foreground Rights

The selected developers will keep ownership of the IPRs attached to the results generate during the Hackathon but are required to release the results under an Open Source License. Results produced during the Hackathon will be shared with the Buyers Group and the CE Team, which will have the right to:

- Access results, on a royalty-free basis and with non-exclusive, irrevocable and non-sub-licensable license;
- Require to grant to their affiliated institutes/outstations a royalty-free, non-exclusive and irrevocable and non- sub-licensable license to use the Results for their own non-commercial purposes during and after the termination of the Contract.
- Use project's Background and Side ground under fair and reasonable conditions to the extent needed to use the Results for their own non-commercial purposes.
- Require to grant non-exclusive licences to third parties to exploit the results under fair and reasonable conditions (without the right to sub-license).

6 Data Protection

Each winner has to comply with EU Regulation 2016/679 (GDPR) as well as any applicable and relevant national data protection/privacy laws with respect to all general personal data protection principles.

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