

SYNCHRONICITY

Open Call Launch 14.6.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No732240

Co-funded by



Switzerland



South Korea



Mexico

Kaisa Sibelius
Forum Virium Helsinki

Mikä on Forum Virium Helsinki?

- Vuonna 2005 perustettu Helsingin innovaatioyksikkö, joka kehittää tulevaisuuden kaupunkiratkaisuja yhdessä yritysten, tiedeyhteisön ja kaupunkilaisten kanssa
- Teemoina nyt älyliikenne, robotiikka, tekoäly, data ja esineiden internet
- Helsingin kaupungin täysin omistama voittoa tavoittelematon osakeyhtiö
- Rahoitus: Helsingin kaupunki ja EU-hankkeet, n. 5 M€/vuosi

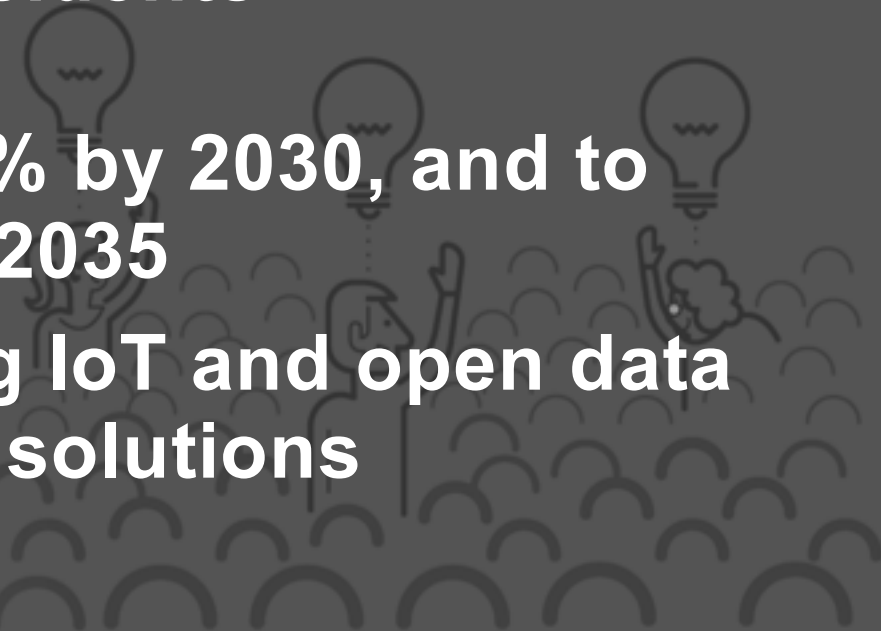




Helsinki - The Most Functional City in the World

= concrete actions and choices that make
everyday life smoother for residents

- to reduce emissions by 60% by 2030, and to become carbon neutral by 2035
- to find solutions to utilizing IoT and open data together with user friendly solutions



Our IoT program projects tackling these issues



Open & GDPR ready Smart City IoT R&D through PCP with Antwerp & Copenhagen.

Budget: 1 843 201 €
Duration: till 09/2019



Digital Single market for urban IoT services through harmonization and scaling solution .

Budget: 631 250 €
Duration: till 12/2019



Leveraging IoT & enabling data driven business on advancing with / monitoring of climate positive actions.

Budget: 1 035 738 €
Duration: 11/2021



The project develops an innovative technology and a platform that enables interoperability between different IoT objects and systems, and provides a possibility to easily create new IoT solutions in a such open innovation ecosystem.

Budget: 360 000€
Duration: 05/2019



Welcoming environment for all to get started with IoT experimentation and workshops in Kaapelitehdas.



SYNCHRONICITY

Open Call for SMEs



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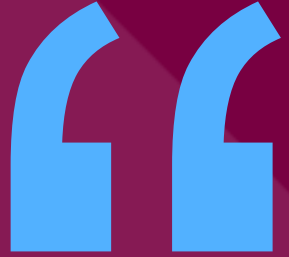


South Korea



Mexico

Aim of the Open Call

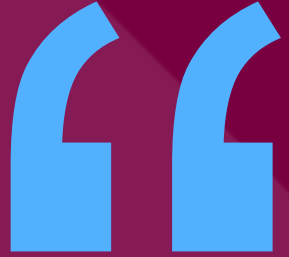


The aim is to offer a possibility for companies to develop and pilot IoT based smart city solutions.

Selected solution will be demonstrated up to 6 months in 2 cities in Europe.



Open Call Pilot Cities



Antwerp

Carouge

Eindhoven

Helsinki

Manchester

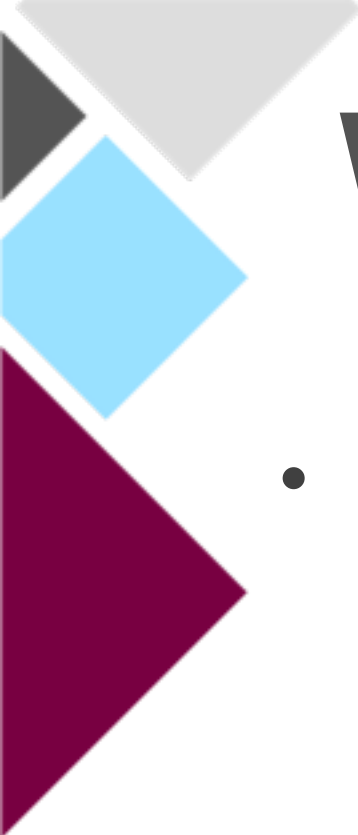
Milano

Porto

Santander

It may include also other cities that you introduce in your piloting group.





Who is it for?

- SMEs with a IoT related solution that
 - a) have already been demonstrated in a relevant environment ($TRL \geq 6$) or
 - b) it's already on the market.
 - SMEs can apply alone or in consortium with large corporates or with cities
- 



Technical Readiness Level

TRL 6 - Technology demonstrated in relevant environment

TRL 7 – System prototype demonstration in operational environment

TRL 8 – System completed and qualified

TRL 9 – Actual system proven in operational environment



Funding



The total budget available 3M€

Up to 100.000 €* if an SME applies alone

Up to 200.000 € for pilot group of 2 organisations

Up to 300.000 € for pilot group of 3 organisations or more

The funding will be split in 3 stages:

1. Prefinancing at the start, 50%
2. After mid-term report, 35%
3. After final report, 15%

Each payment is released 30 days after approval of each report.

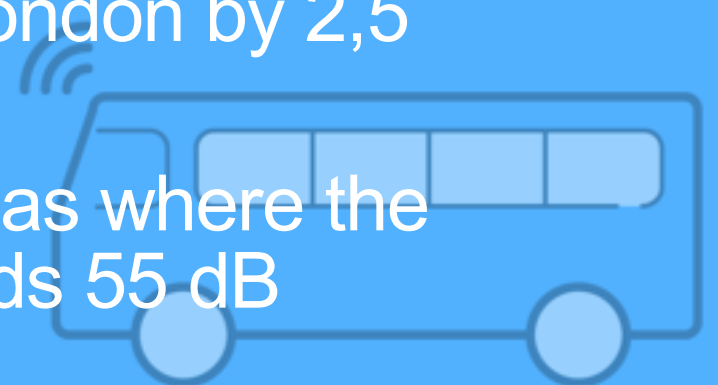
*) When the total budget of the project is 125.000€



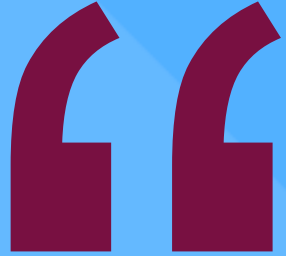
Themes & Challenges

- We impact our environment, our environment impacts us

- AQ and noise have impact on our wellbeing
- Street dust and the inversion phenomenon estimated 1600 pre-mature death in Finland 2013
- AQ has been estimated to reduce life expectancies in Barcelona by more than 13 months and in London by 2,5 months
- Close to 40% of Helsinki residents live in areas where the average daytime noise from transport exceeds 55 dB



Themes & Challenges



ENVIRONMENT & WELLBEING

- Climate change mitigation
- Reducing air and noise pollution

SUSTAINABLE MOBILITY

- Enabling and improving MaaS
- Encouraging more non-motorised transport

CITIZEN ENGAGEMENT

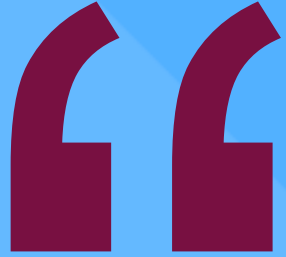
- Increasing citizen engagement in decision making
- Increasing a greater level of diversity in political engagement

OPEN THEME-DISRUPTIVE INNOVATION

- Open challenge



Themes & Challenges



ENVIRONMENT & WELLBEING

- Climate change mitigation
- Reducing air and noise pollution

SUSTAINABLE MOBILITY

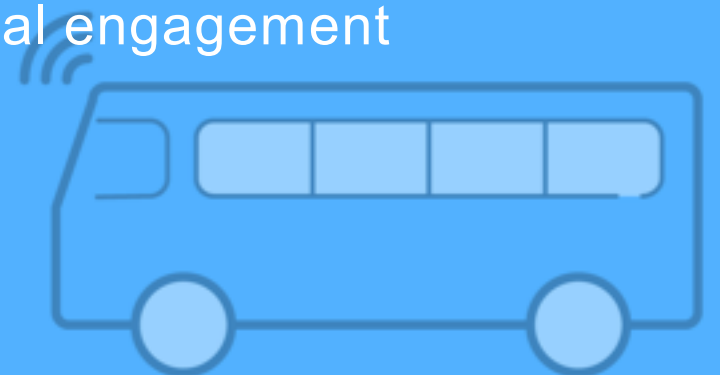
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CITIZEN ENGAGEMENT

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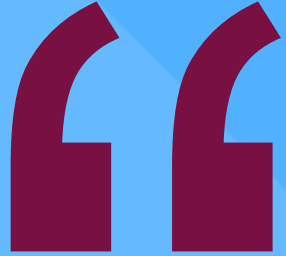


Solving environmental challenges with IoT!

- Solutions for avoiding exposure to pollutants along different cycling or pedestrian routes
- Solutions for combining air quality data to ventilation systems in buildings
- Solutions for warnings of poor air quality to asthmatics and other sensitive people
- Street dust map for city street maintenance to help with street cleaning or dust binding
- Your idea 😊



Themes & Challenges



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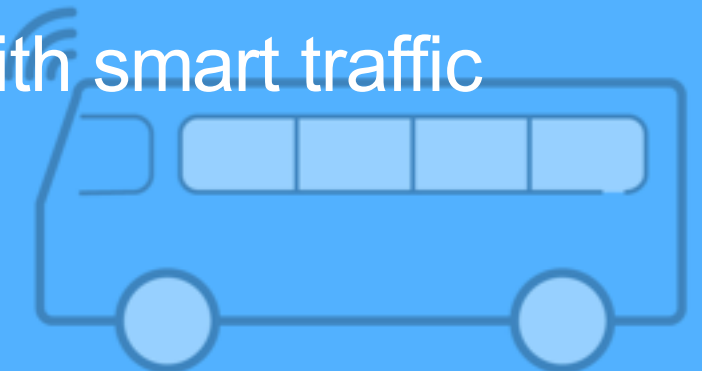
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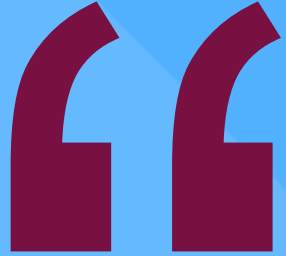


Traffic can be more sustainable

- To reduce traffic-related emissions based on real-time data and real time traffic control
- To get more detailed information and make predictions about road events or monitor icy roads
- To optimize the amount of public transportation during rush hours or special occasions
- To optimise transportation routes and time to avoid redundant traffic and jams
- To enable green line for cars or bicyclists with smart traffic lights
- Your idea 😊



Themes & Challenges



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OPEN THEME-DISRUPTIVE INNOVATION

- Open challenge



Or something else?

- Something innovative that can tackle a real challenge in at least one other city.
- The solution does not fit within the themes and challenges proposed but could be of interest to the open call pilot cities.
- The solution needs to have been demonstrated in a relevant environment.



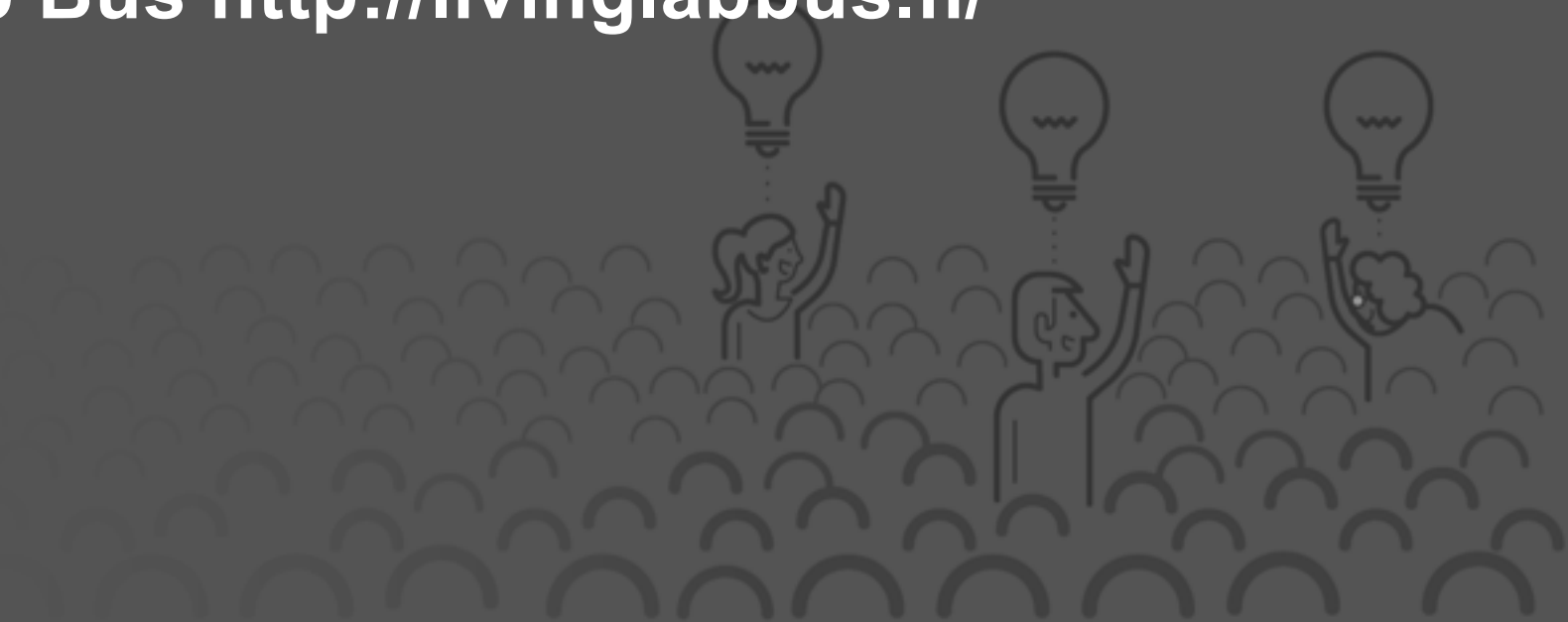
Data	Helsinki	Santander	Porto	Manchester	Antwerpen	Milan	Eindhoven	Carouge
Bike Hire Docking Stations								
Air Quality Observed								
Parking (OffStreet)								
Parking (OnStreet)								
Parking Spot								
Noise Level Observed								
Weather Observed								
Traffic Flow Observed								
Bus Line								
Bus Stop								
Bus Timetables Real Time (estim)								
Point Of Interest								
Car Sharing Stations								
Electric Charging Posts								
Train/Metro entities (stops, lines)								
City Event								
Fleet Vehicles								
Waste Containers Assets								
Parks & Gardens sensors								
Traffic lights								
Pedestrian Counting								
Cycle Counting								

Some assets in Helsinki

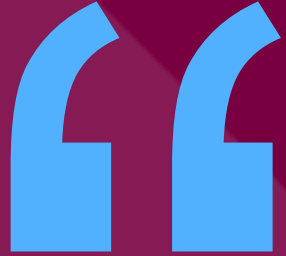
LoRaWan – HSY, Digita

VTT's Living Lab Bus <http://livinglabbus.fi/>

IoT Forge



Timeline



June 1st

Open Call starts

Sep 30th

Open Call ends

Oct- Nov

Selection of the projects

Feb-Sep
2019

Piloting



How am I going to be evaluated?

30 Sept 2018

OPEN CALL APPLICATIONS

- Anonymisation
- Eligibility check (**GO/NO GO**)

TECHNICAL REVIEWERS

GO/NO GO

CITY REVIEWERS

+

COMMERCIAL REVIEWERS

Impact (0-5)
Excellence (0-5)
Feasibility(0-5)
Sustainability (0-5)

COLLECTION OF AVERAGE SCORE + FEEDBACK BY OCEC

SCORE $\geq$ 14/20
(**GO/NO GO**)

List Projects from Highest Score to Lowest

Finalist List

OCEC DISCUSSION

Considerations:

- Geographical balance
- Themes&Challenges
- Pilot Cities views
- If equal score: feasibility and sustainability prevails

WINNING PROJECTS LIST

ETHICS & PRIVACY CHECKS BY EPB

ETHICS & PRIVACY CHECKS 2
(**GO/NO GO**)

OUTCOME COMMUNICATION

1st week of Nov 2018

Amendment Period

End Nov 2018

OCEC = Open Call Evaluation Committee

EPB = Ethics and Privacy Board

How am I going to be evaluated?

Excellence (0-5 points)

- What is the vision, ambition and value proposition of your solution? Is your project proposition clear in meeting the objectives of the call?

Impact (0-5 points)

- Does your project address a challenge recognised or prioritised by the cities? Who will benefit from the implementation of your solution or service and how? How will your solution impact the life of citizens and communities?

Feasibility (0-5 points)

- Can you demonstrate that the project is feasible within the budget? If it is not, can you demonstrate that you have the additional necessary resources to make it feasible? Is the budget clearly described?

Sustainability (0-5 points)

- How credible is your methodology in proving the scalability of product/service? What's your exploitation/commercialisation plan for this solution? How clear is your revenue model and monetisation strategy? Will your solution support the goal of creating more jobs across Europe?

Toolkit for Applicants

<https://synchronicity-iot.eu/open-call/>



1-page Guidance to read Open Call Documentation_SynchroniCity.pdf



1. Open Call at a Glance for Businesses



2. Open Call Guide for Applicants



3. Open Call SynchroniCity Framework



4. Open Call Application Templates



5. Open Call Templates for Winning Applicants



6. Visuals

Stay tuned!

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Or send us an email
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