



SYNCHRONICITY

Open Call for Companies



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funding from the European
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and innovation programme
under grant agreement No732240

Kaisa Sibelius
Forum Virium Helsinki
IoT Summit, 31st May 2018

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

CGI



DIMECC

DEMOS
HELSINKI

Tekes

SPONDA

IBM

elisa

SITRA



Metropolia
University of Applied Sciences

yle



Telia



6Aika

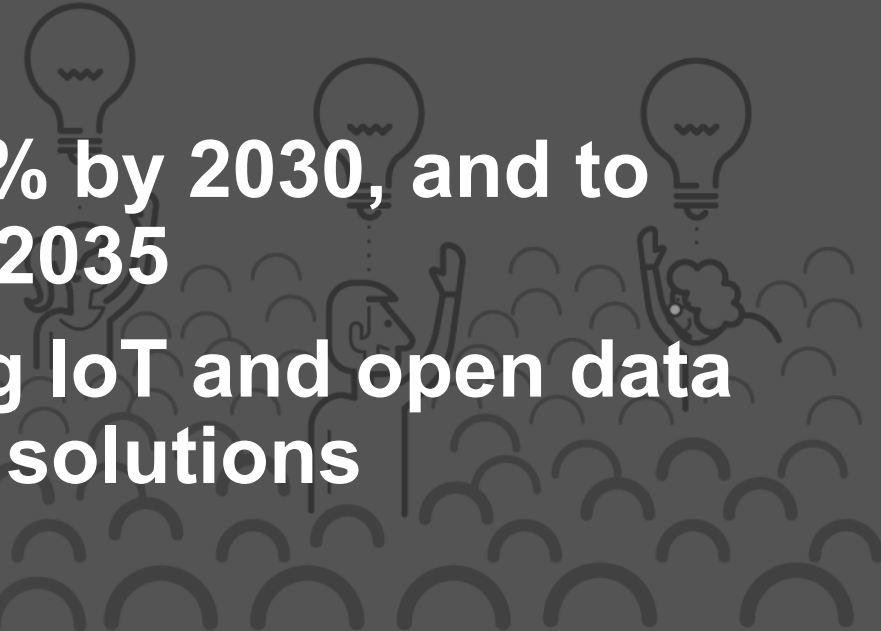




Helsinki - The Most Functional City in the World

= 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

SYNCHRONICITY

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

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.

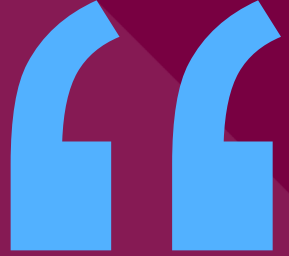
Budget: 360 000€
Duration: 05/2019



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

**FORUM
VIRIUM
HELSINKI**

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.

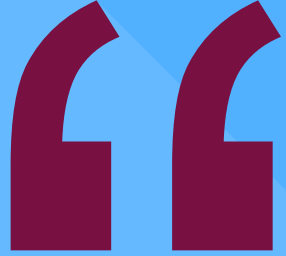




Who is it for?

- **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**
- 

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

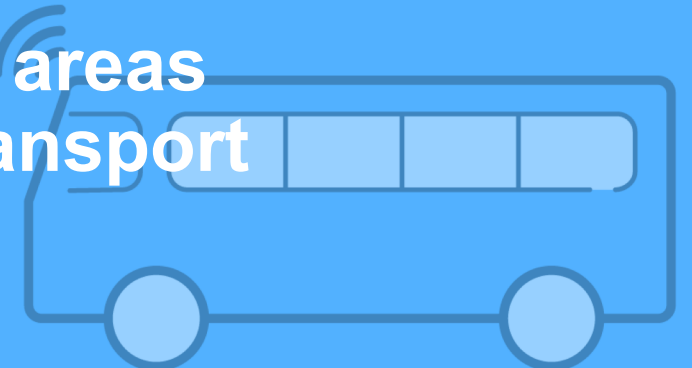
OPEN THEME-DISRUPTIVE INNOVATION

- Open challenge

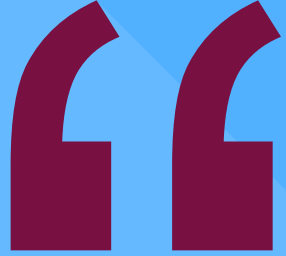


We impact our environment, our environment impacts us

- AQ and noise have impact on our wellbeing
- Street dust and the inversion phenomenon estimated 1600 premature 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

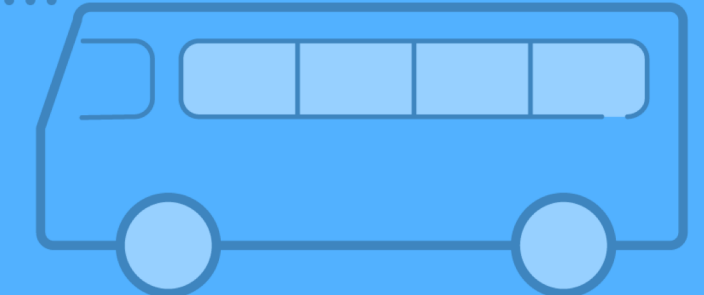
- **Enabling and improving MaaS**
- **Encouraging more non-motorised transport**

CITIZEN ENGAGEMENT

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

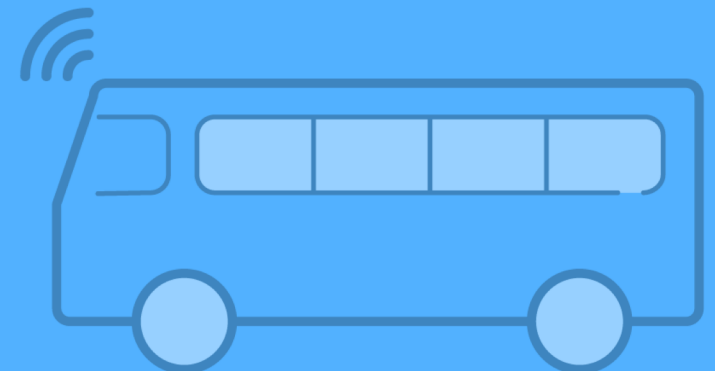
OPEN THEME-DISRUPTIVE INNOVATION

- **Open challenge**

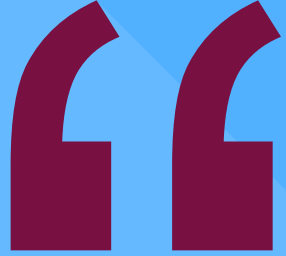


Solving environmental challenges with IoT!

- 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 😊



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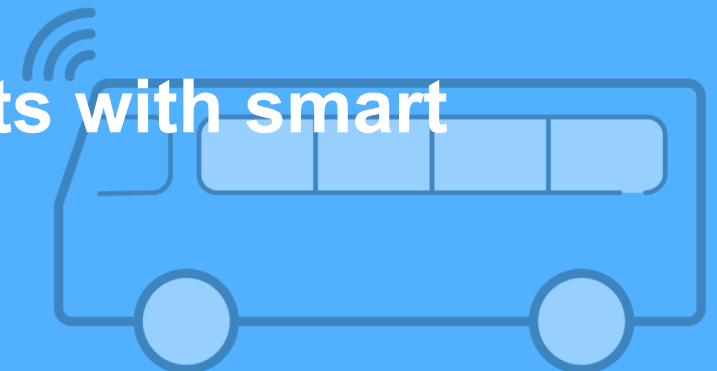
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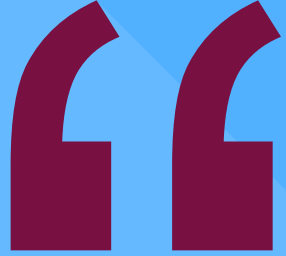


Traffic can be more sustainable

- 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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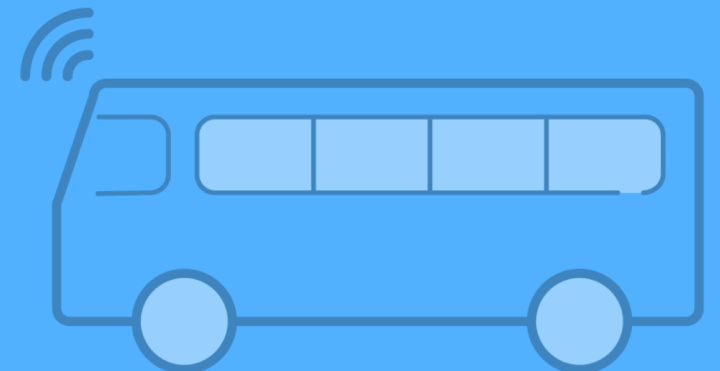
OPEN THEME-DISRUPTIVE INNOVATION

- 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.**



Funding

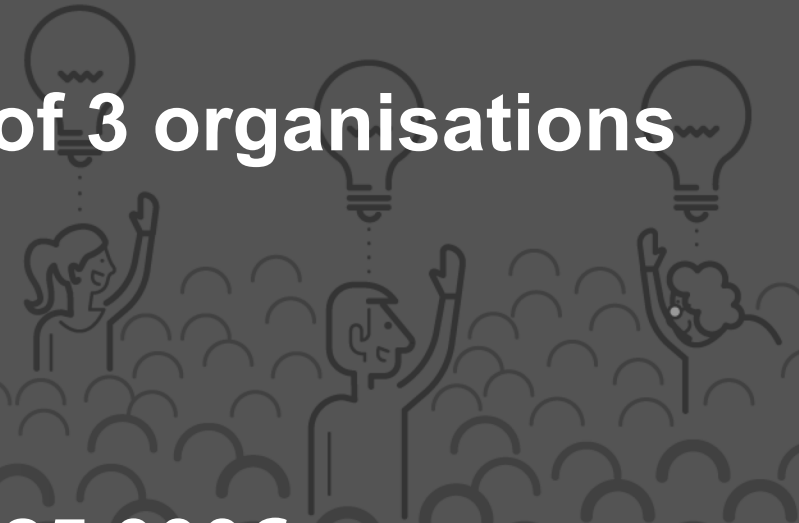


Up to 100.000 €* if an SME applies alone

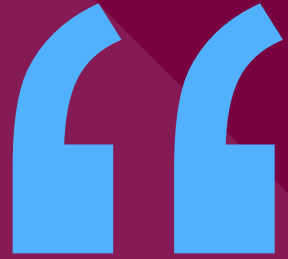
Up to 200.000 € for consortia of 2 organisations

Up to 300.000 € for consortia of 3 organisations or more

***)Total budget of the project 125.000€**



Open Call Pilot Cities



Antwerp

Carouge

Eindhoven

Helsinki

Manchester

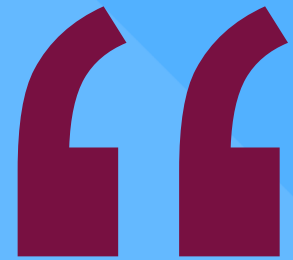
Milano

Porto

Santander

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





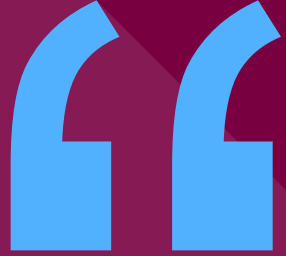
Sensor data available in Helsinki

IOT INFRASTRUCTURE

- EV charging points
- Sensors (air quality, telematics, water meter)
- Public transportation real time data (Digitransit)
- City NFC Travelcard (0,8M users), access control and identification and loyalty points (identity and services in chip)
- 22 public interactive displays in street scape for pedestrian mobility management



Timeline



June 1st

Open Call starts

Sep 30th

Open Call ends

Oct- Nov

Selection of the projects

**Feb-Oct
2019**

Piloting





Next steps

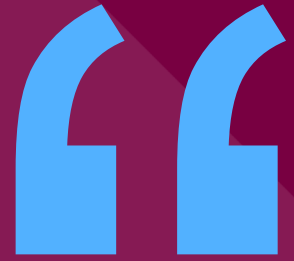
**Welcome to visit our stand and
leave your business card and
win a Micro:bit Kit!**

or

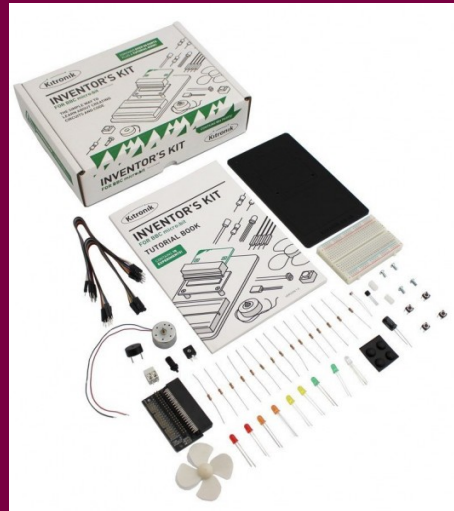
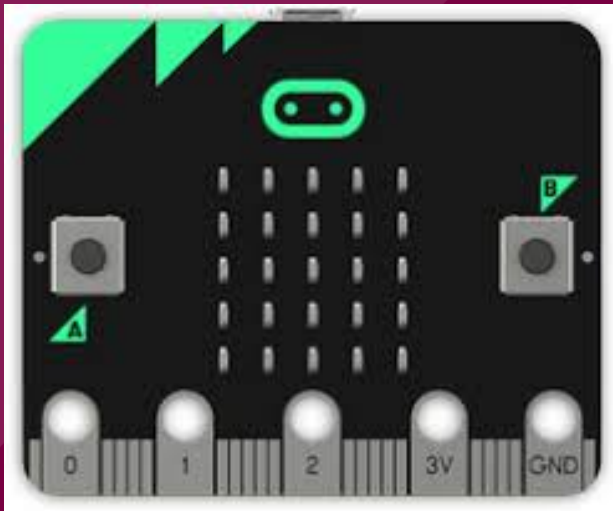
**attend the info event on 14th
June in Flux**

Meetup





**Welcome to visit our stand
and you win a Micro:bit Kit!**



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