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Cities use-cases
Overview

All information contained herein is for discussion purposes only and shall not be considered a commitment on the part of Digipolis or the SELECT for Cities Buyers Group.

This project has received funding from the EU's H2020 Research & Innovation Programme under GA 688196.

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Goal

Validate the different SELECT for Cities platforms (aka *'solutions'*) for connecting the cities Smart and IoT systems and acting as a IoE Lab for cities.

Demonstrate these *solutions'* capacity to allow a user-centred management of personal data (MyData model).

Timing

The use-cases will be runned in *living lab* scenarios, phase 3 of this PCP.

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Cities IoE background

Antwerp, Copenhagen, Helsinki are **SMART CITIES**

Key domains

- open data
- e-government
- participation
- smart housing
- smart grid
- air quality improvement
- smart urban mobility

Right time to:

- capitalize
- scale up

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The cities use-cases

- **Antwerp - Managing city traffic congestion with Mobility RTI**
  - focus on “Sportpaleis/Lotto Arena”
- **Copenhagen - Integrating IoT City sensor networks**
  - real-time mobility
  - air quality
- **Helsinki - City IoE service provisioning at Smart homes**
  - Diabetes patients at Smart homes

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Antwerp use-case

Managing city traffic congestion with Mobility RTI

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Antwerp use-case

“Informing city users through real time IOT data leads to efficiency gains and desirable behaviour.”

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Expected outcome

Collecting data

- Traffic data
- Capacity of public transport
- Parking capacity
- Full access to data

Analysing and visualisation of data

- app, gps system, service,...

Changing behaviour

- Automatic steering of the guidance systems around the venue
- Automatic rewarding

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Copenhagen use-case

Integrating city IoT Mobility and Air sensor networks

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Copenhagen use-case

Becoming **CO2 neutral** by 2025.

Green mobility - *how to optimize traffic, while lowering emissions?*

ITS Mobility

Air quality

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Copenhagen use-case

CHALLENGE

- Real-time mobility data + air quality data
- Focus on city centre: City Hall and H.C. Andersens Boulevard.

OBJECTIVE

- Actionable insights for policy makers, city planners, domain experts and citizens.

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Expected outcome

- (Near) real-time data visualisation
- Control/Trigger feedback to traffic control
- Advanced data analytics
- Business Intelligence, forecasting & simulation tools

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Helsinki use-case

City Health and Wellbeing IoT service provisioning at Smart homes

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Helsinki use-case

TODAY:

IoT-enabled home care service for elderly in Helsinki, but:

- no user-centric personal wellbeing data management
- no connectivity between measurement devices and their data.

Challenge: improve the self-management and care of Diabetes patients at smart homes:

- User-centric management and sharing of personal wellbeing data
- Connecting IoT devices and integrating to existing apps and services
- Integration to city's care CRM and care procedures
- Enabling new solutions development through open platform

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Expected Outcome

Functional integration leads to

- better self management
- uptake of innovative IoT devices
- better city care

Testbed for new IoE solutions

- open platform connectivity
- access to related data

Privacy-focused IoE environment

- management and sharing of wellbeing data

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Breakout session

Join Break-out session #2 ‘Living Lab approach and use-cases’ for more on city use-cases and the Living Labs setting

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Questions