Pre-Commercial Procurement

Cities as large scale Internet of Everything labs

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This project has received funding from the EU’s H2020 Research & Innovation Programme under GA 688196.
“To design, prototype and pilot a platform capable of linking cities’ Smart infrastructure in order to allow for new IoE scalable products and services”
Prototypes piloted through Cities use-cases

Some urban challenges:

- Helsinki - City IoE service provisioning at Smart homes
- Antwerp - Managing city traffic congestion with Mobility RTI
- Copenhagen - Integrating IoT City sensor networks
  - real-time mobility
  - air quality
Who we are & project Factsheet

- Forum Virium Helsinki (FI): Coordinator and member of the Buyers’ group
- Københavns Kommune (DK): member of the Buyers’ group
- Digipolis (BE): Lead procurer and member of the Buyers’ group
- Stad Antwerpen (BE): City user
- iMinds (BE): Living Lab expert
- 21c (UK): Communication expert

Duration: 4 years
Budget: 5.6 million EUR
Pre-Commercial Procurement (PCP)

... is the procurement of research and development of new innovative solutions before they are commercially available

...R&D is split into phases (1) solution design, (2) prototyping, (3) testing of the prototyping

...with the number of competing R&D providers being reduced after each evaluation phase

Special legal framework Horizon 2020 ...exempted from the EU public procurement directives: procurers do not retain all the benefits of the R&D (IPR stays with the contractors)
PCP phases

- **Phase 1:** Solution Design
  - Duration: 2 months
  - 9 parts

- **Phase 2:** Prototype
  - Duration: 6 months
  - ~6 parts

- **Phase 3:** Testing
  - Duration: 9 months
  - ~3 parts
  - <659k€ p.p.

Total PCP budget: ~4 Million EURO

PCP Call for Tenders open until 14 April'17

Jun’17

Augt’19
Expected Outcomes per phase

Phase 1: Concept Design

Concept design & feasibility study (conceptual, technological, financial). This includes:

● how the platform will implement the different functional criteria,
● how the platform will implement the innovation
● how the architecture of the platform will meet the different quality criteria,
● First business model for future product commercial deployment
Expected Outcomes per phase

Phase 2: Prototype

Functioning prototype, a test roadmap, and a preliminary business plan

The development of the Prototype will be monitored closely by the Buyers Group through a number of monitoring and project progress meetings and briefings, during which the Contractor will present the current Prototype status and will receive feedback from the Buyers Group.
Expected Outcomes

Phase 3: Testing

Living Lab testing of the selected prototypes.

This approach requires Contractors to:
- Ensure their solution can be applied in different cities
- Show their solution is generic enough to support divergent use cases
- Demonstrate their solutions scale across Europe
- Prove they can manage real-life operations on this scale
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Thank you for your attention!