Intelligent Outdoor Lighting

Smart city services

Intelligent Outdoor Lighting offers cities an end-to-end solution enabling smart services

Co-operation within KIC EIT ICT Labs

EIT ICT Labs Smart Spaces Action Line brought together Philips Research, Technical University of Eindhoven and ST Microelectronics to create sensor-driven innovations to enable smart city services.

Cities understand the advantages of branding themselves as unique, beautiful and secure places. Lighting plays a special part in establishing that identity. Smart urban lighting management solutions provide improved energy efficiency, user experience and safety feeling.

Embedding sensors within the intelligent lighting network enables data-driven innovations. Sensorial information gives more insight in what is happening in urban environments. Next to light control tailored to citizens' needs, monitoring environmental conditions creates more awareness. Insight in traffic patterns results in more efficient usage of urban spaces.

EIT ICT Labs built a consortium able to bring this proposition to the market. The embedded sensing platform from STMicroelectronics and TU Eindhoven's data analytics are deployed into the Philips intelligent lighting infrastructure to create this unique solution. Besides technological aspects, this activity is also targeting co-creation together with cities.

The innovation activity was selected in 2013 by the EIT ICT Labs' action line Smart Spaces as one of the most promising proposals.

Societal Impact

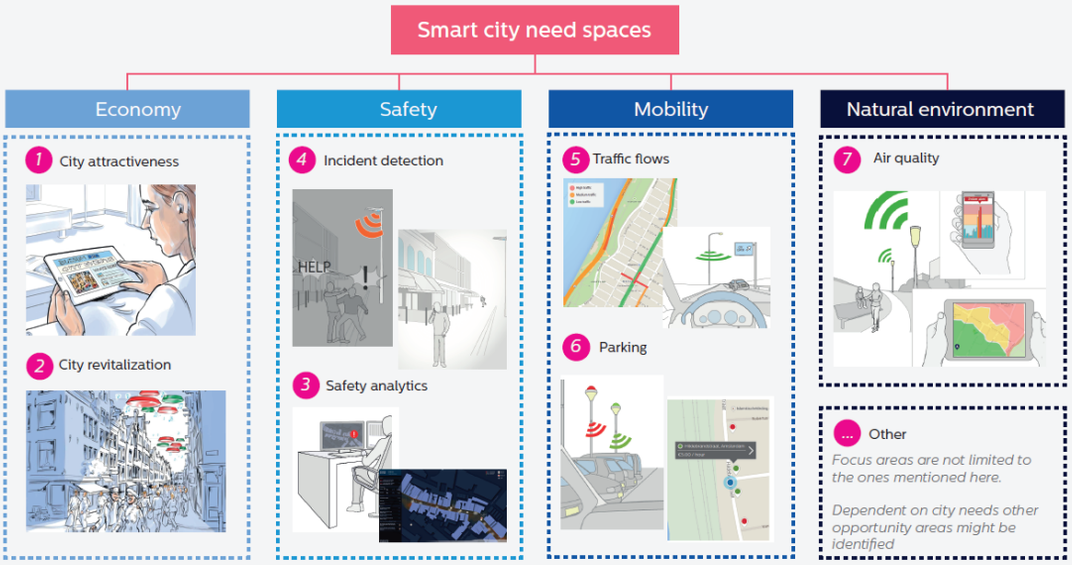
Environmental awareness (e.g. air quality) will lead to increased societal consciousness creating healthier living environments.

Benefits for cities and citizens

- Intelligent light control
- City monitoring
- Energy efficiency
- Public safety

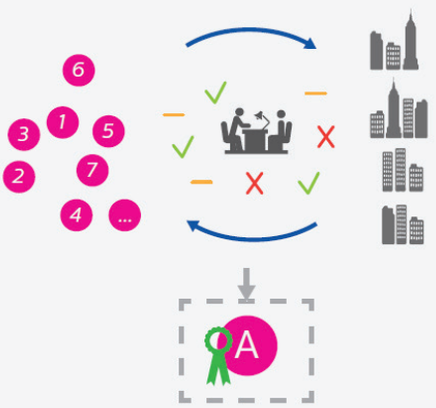
Key Focus Areas

The consortium has identified key focus areas and is reaching out to European cities for co-creation. Claim validation pilots of the prioritized propositions will be carried out in the market in 2016.



1

Discuss **focus areas** with European cities to **prioritize** and find a **partner for co-creation** and pilot implementation



- Interviews with 4 European cities
- Goals of interviews:
  1. Prioritize and validate ideas
  2. Find partner to start co-creation
- No requirements in terms of numer of inhabitants

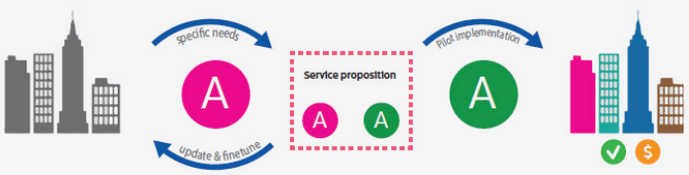
Individuals to discuss with:
- Should have responsibilities in the public domain (safety, economy, mobility, natural environment)
- Decision makers
- Experts in their fields
- Conceptual, visionary thinkers
- Responsible for policy making
- In direct contact with aldermen

- NO: purely lighting
- NO: purely operational

The first step is to discuss with European cities in order to verify the need spaces, focus areas (...) and to understand the underlying needs and the priorities. Based on the discussion, one focus area will be selected (A). Besides this, we also need to find a partner to enter the co-creation phase.

2

Co-creation with European city to develop a full digital service proposition and start preparing **claim validation pilot**



After a city has been selected as a partner for co-creation, the consortium will work together with the city to further develop the selected 'focus area' (A) into a full service proposition that includes business model, service design, etc (A). This will be the basis for a small-scale pilot test which aims to validate the underlying claims of the proposition.

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http://youtu.be/be4_499JndI

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