

## Intelligent outdoor lighting systems

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# Intelligent Outdoor Lighting Systems

**Author** | Tanir Ozcelebi

Cities understand the advantages of branding themselves as unique, beautiful and secure places. Lighting plays a special part in establishing that identity. In 2014, TU/e Intelligent Lighting Institute, Philips Research and ST Microelectronics are collaborating in an EIT ICT Labs project called 'Intelligent Outdoor Lighting Systems

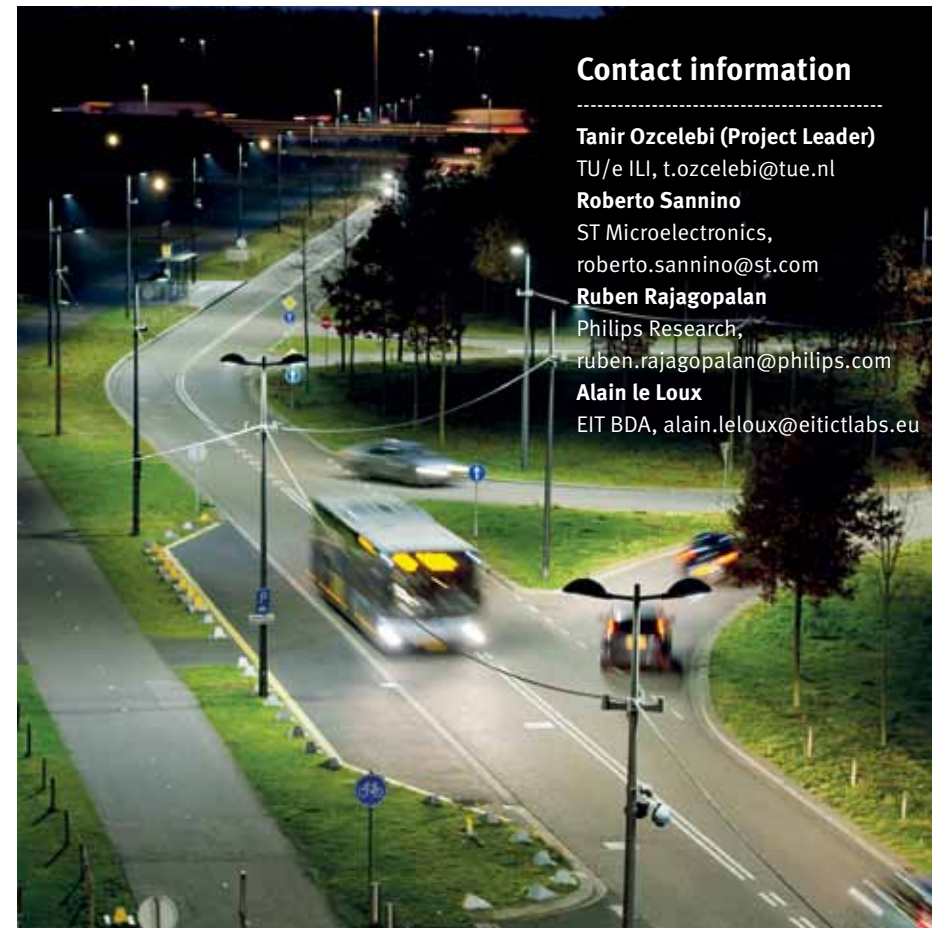
(IOLS)' towards an integrated intelligent outdoor lighting luminaire solution that will allow improved energy efficiency, user experience and safety feeling in cities. The partners integrate their technologies of lighting control, environment sensing and data analytics in a smart urban lighting luminaire, that is capable of intelligent scene classification and real-time dynamic actuation of outdoor lights.

## Improved energy efficiency

With restrictive legislation and the United Nations' Kyoto Protocol, switching to energy-efficient light sources is high on every city's agenda. Intelligent lighting solutions create a unique identity and transform the night scene with lighting solutions that also enhance your city's green credentials.

## Enhanced user experience

Intelligent lighting solutions can enhance the streets, squares and parks that give each city its unique personality. They beautify and inspire, bathing the city with crisp white light or dynamic color schemes to create attractive and inviting atmospheres. Enhancing life in the city and giving night-time socializing more sparkle and appeal.



## Contact information

**Tanir Ozcelebi (Project Leader)**

TU/e ILI, t.ozcelebi@tue.nl

**Roberto Sannino**

ST Microelectronics,  
roberto.sannino@st.com

**Ruben Rajagopalan**

Philips Research,  
ruben.rajagopalan@philips.com

**Alain le Loux**

EIT BDA, alain.leloux@eitictlabs.eu

## Increased feeling of safety

Lighting environments making people feel safe and welcome are key to creating a livable city. The challenge is to be able to provide lighting to suit each zone, from residential areas and public spaces to busy highways and industrial parks. Light when and where you need it, in precisely the right levels to make the city safer for drivers, pedestrians and residents.

Products resulting from this project will expand the extent of Smart City applications by leveraging on advanced intelligent sensing platforms in a similar way as it happened over the last decade for consumer systems, such as gaming stations and smartphones, which can nowadays fully support the capability of sensing the environment and capturing information regarding the surrounding context. These products will also support introduction of additional functionalities/ services such as traffic and security management.

<http://www.eitictlabs.eu/news-events/news/article/intelligent-outdoor-lighting-shines-on-midsummer-night/>

