Light beyond Illumination through Connected Lighting

Bogdan Balaci, Commercial Leader Philips Lighting SEE October 13th 2016 **78%** of the world's energy consumed by cities

lighting means 19% of the total energy consumption

224 million smart homes by 2019

Cities are on the rise many dimensions to urbanization



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Lighting can account for up to 40% of a city's total energy consumption²

On average, public lighting is more than 20 years old³

1% of installed systems are connected, expected to reach 35% by 2025³

¹ Northeast Group, *Global LED and Smart Street Lighting Forecast* 2015-2025 ² European PPP Expertise Centre (EPEC), European Commission, *Energy Efficient Street Lighting*, 2013 ³ Philips market analysis

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3 elements

Philips CityTouch A simple concept



THE EVOLUTION OF OFFICE LIGHTING



Market context

In the Internet of Things (IoT), it's all about the data.

Connected devices are connected expressly for the purpose of gathering and sharing information about themselves, about the environment in which they're used, and about the people who use them. In a connected lighting system, luminaires and other lighting system devices merge with IT networks to allow for the collection, distribution, and storage of large amounts of data.

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The New Office Experience The Edge Building, Amsterdam

The most innovative and sustainable building in the world

Connected Lighting:

- Over 6,000 LED luminaires, integrated within the IT network of the building
- The LEDs save energy, because they offer 300 Lux, instead of the standard 500 Lux. As a result 3.9 Watts/m² is used instead of the usual 8 Watts/m²
- Every second luminaire is equipped with a multisensor measuring movement, light, temperature & infrared
- Dashboard of real time and historical data & analytics about the building usage
- Employees act as owners & operators of their working space

The highest ever awarded BREEAM* score of 98.36%

*world's leading design and assessment method for sustainable buildings

