Bring your city to life with connected lighting

Outdoor lighting
Philips Lighting
March 2014

innovation + you

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What’s globally changing in lighting?

The world needs more light

One billion more people
in the world by 2025

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What's globally changing in lighting?

The world needs to get smarter

Energy efficient technologies like LED can unlock significant energy savings

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What's globally changing in lighting?

The world is increasingly digital

Digitization is changing the way people use and interact with light

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Challenges for cities

Sustainability
- … green city
- … saving energy
- … reducing carbon footprint
- … minimizing light pollution
- … ensuring sustainable public lighting

Economic uncertainty
- … minimize investments
- … being accountable
- … manage city infrastructure
- … reduce costs

Livability
- … flexible light at the right levels, right color and right zone
- … making cities more attractive to people
- … providing comfortable high-quality lighting

Technological revolution
- … complex data process
- … open standards
- … interfaces
- … cloud-based computing
- … deal with increasing costs and management burdens

Urbanization
- … more light needed
- … light that adapts and change to city needs
- … light that is scalable and future-proof to cope with rapid growth

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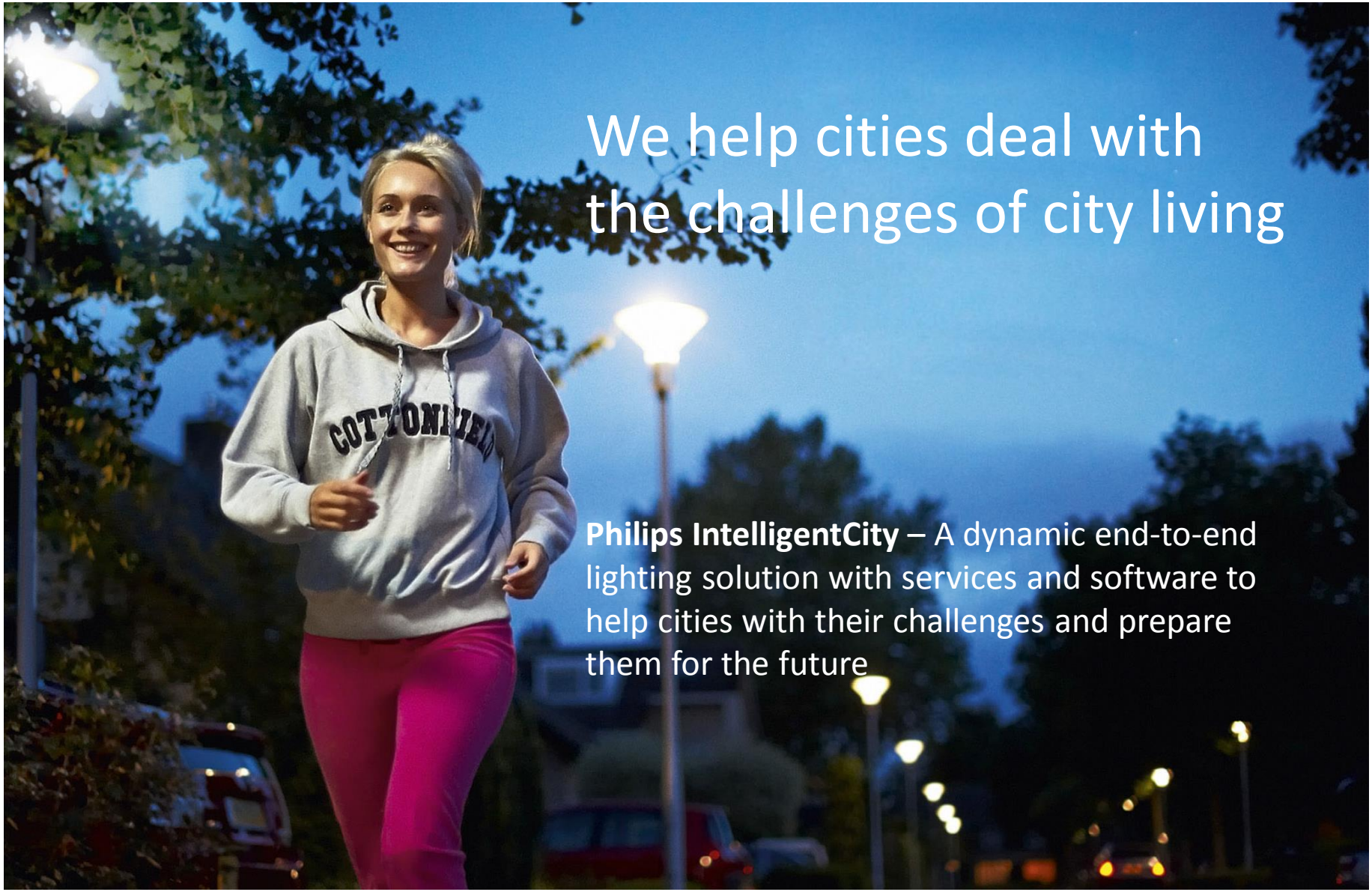

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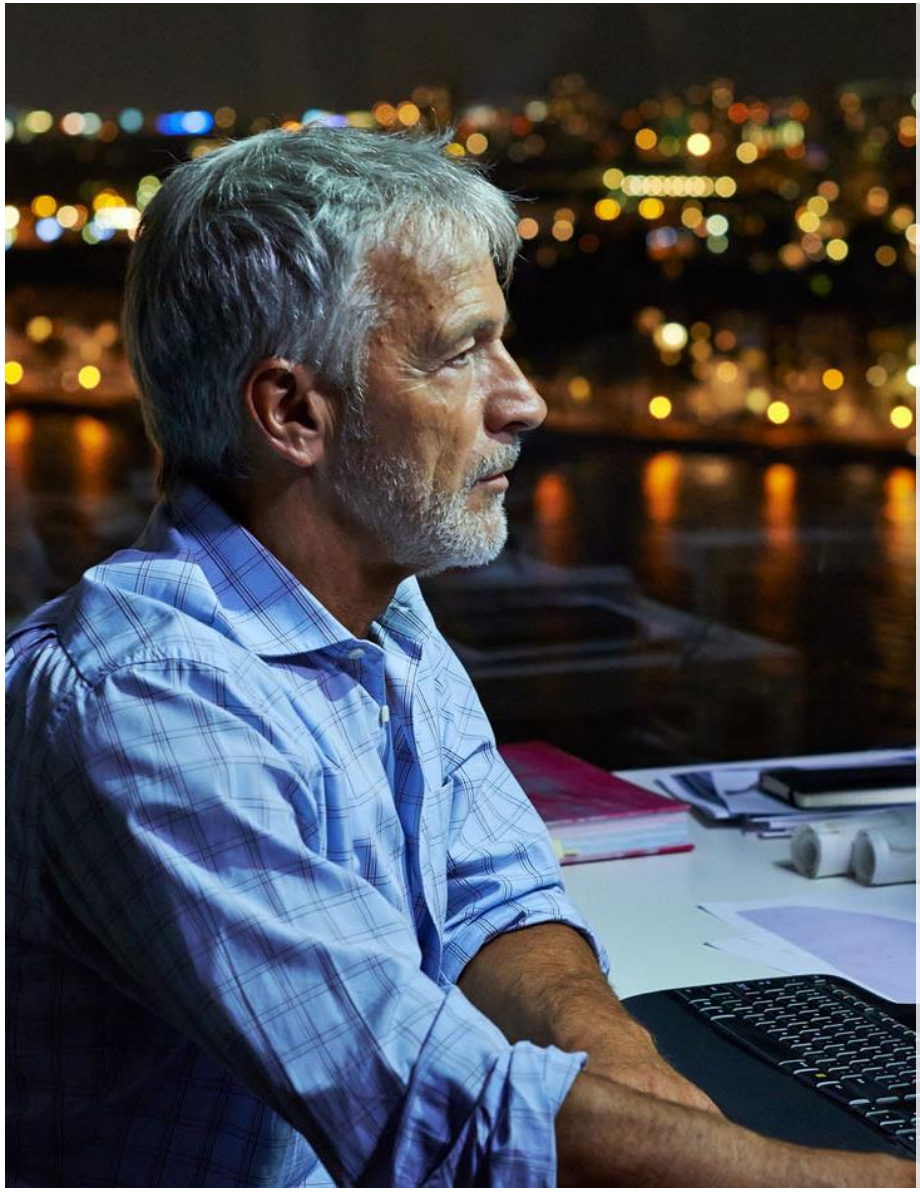

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an intelligent approach

Partnering with municipalities and service providers, offering a seamless connected public lighting solution through a lighting management platform, intelligent luminaires and dedicated services.

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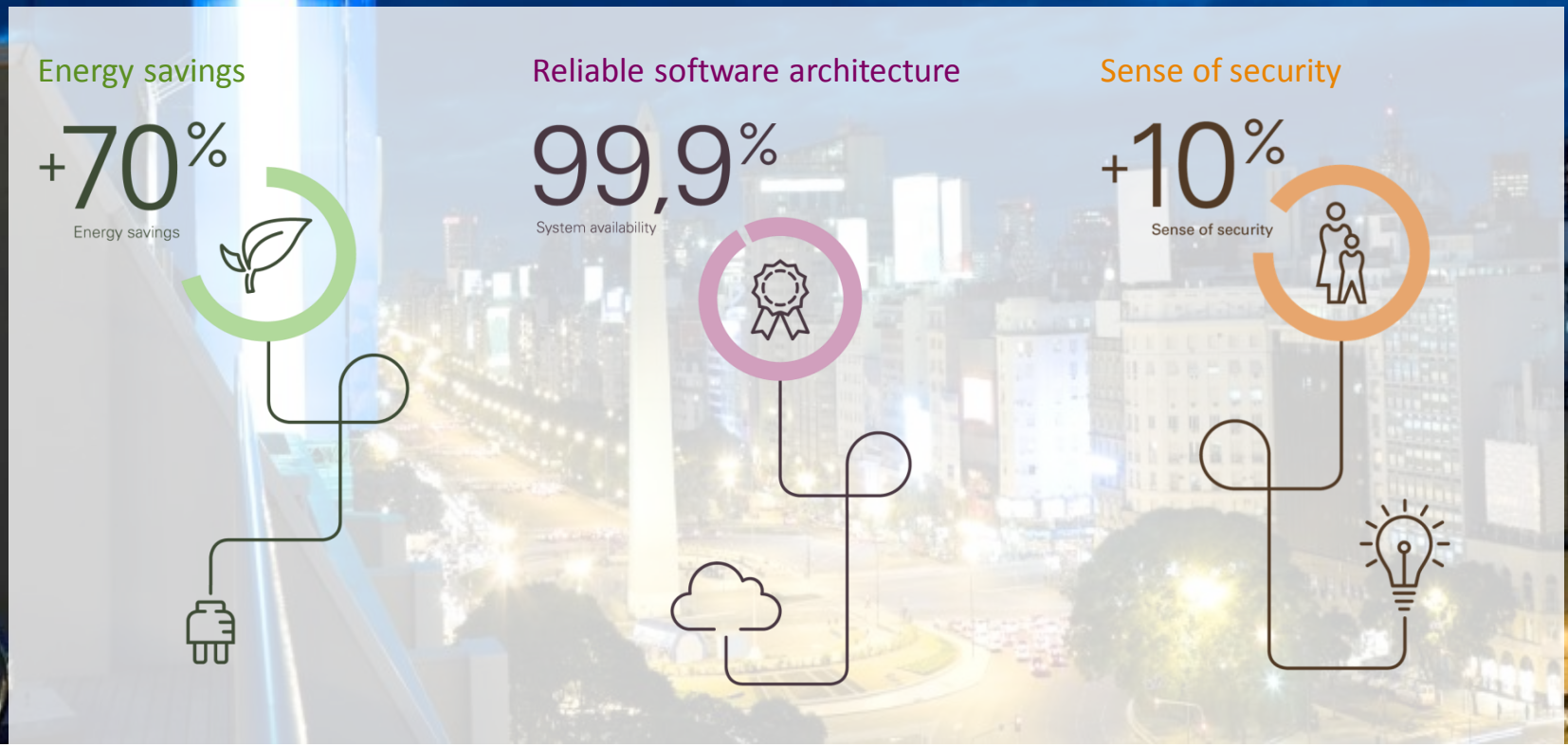
We provide **a step by step approach** which helps cities and city operators improve their operations, manage better their energy consumption, improve livability, safety and sustainability in their cities, while reducing costs.



Source: Salobre, Spain

Source: Availability report 2011-2013

Source: Los Angeles, USA

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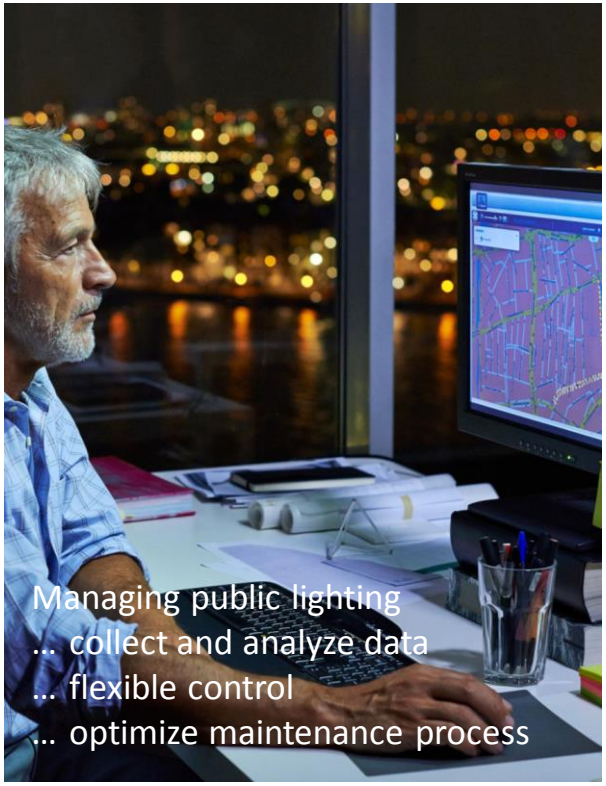
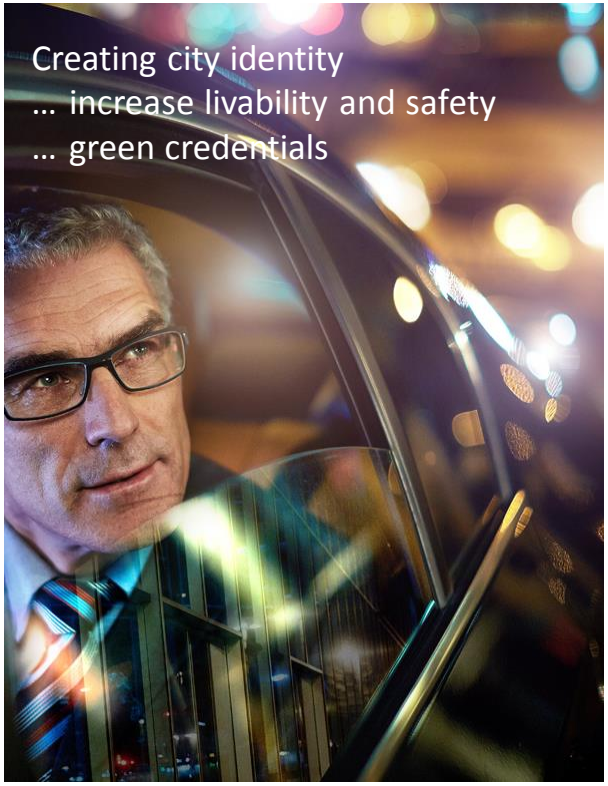
Bring your city lighting to life with IntelligentCity

For People

For Lighting operators



For Municipalities



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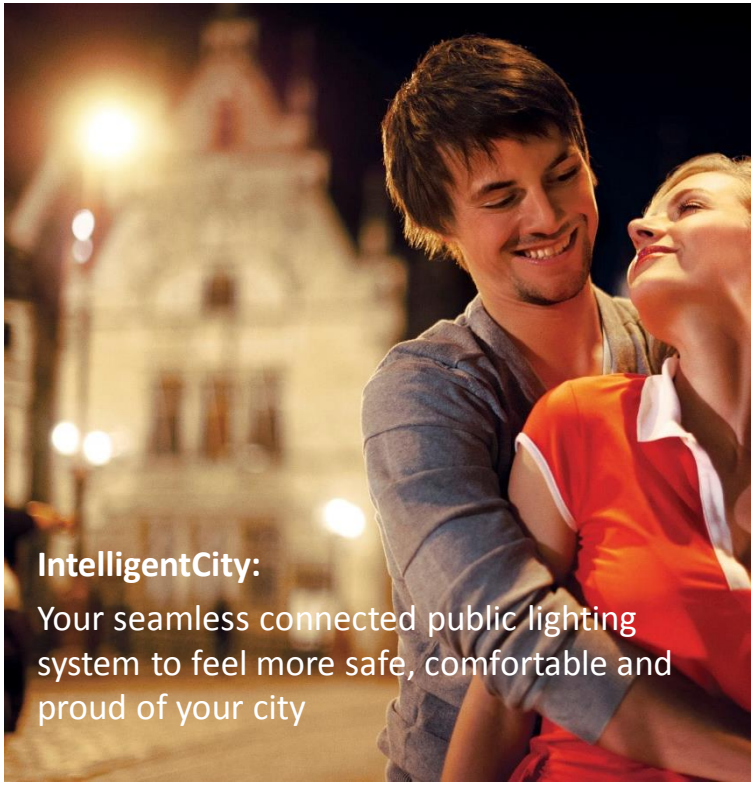
Benefits for People

Lighting
… transforms cities
… creates vibrant spaces
… increases traffic and social safety
… but consumes 19% of world energy
… and makes night skies brighter

IntelligentCity restores the right balance

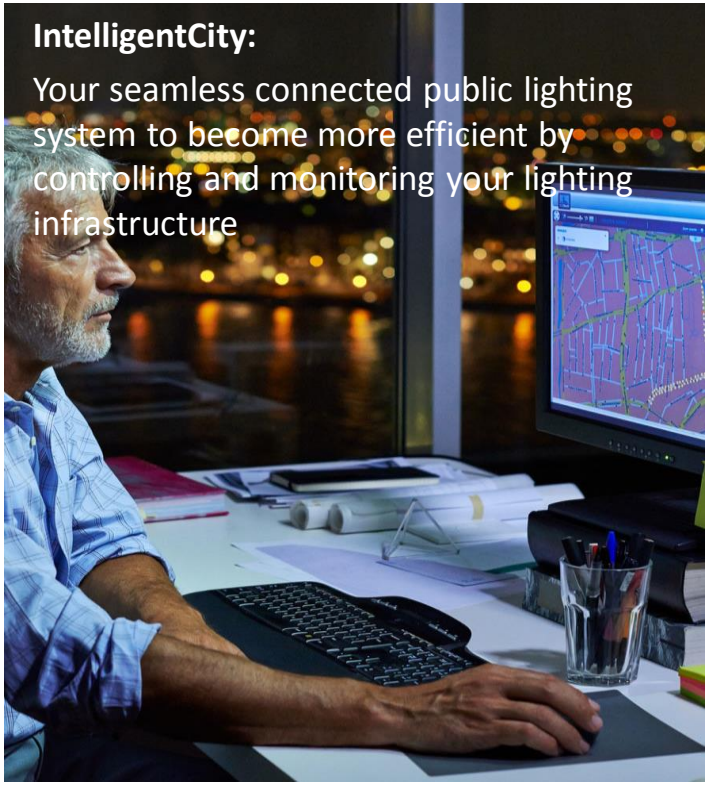


IntelligentCity improves the livability in your city:

- Increase traffic and social safety
- Well-being
- City beautification
- Reduce fear of crime

Benefits for Operators and Service providers

Massive transformation from conventional to LED
… new digital connectivity technologies
… new opportunities
… optimizing your performance
… ease your work
… new business models.

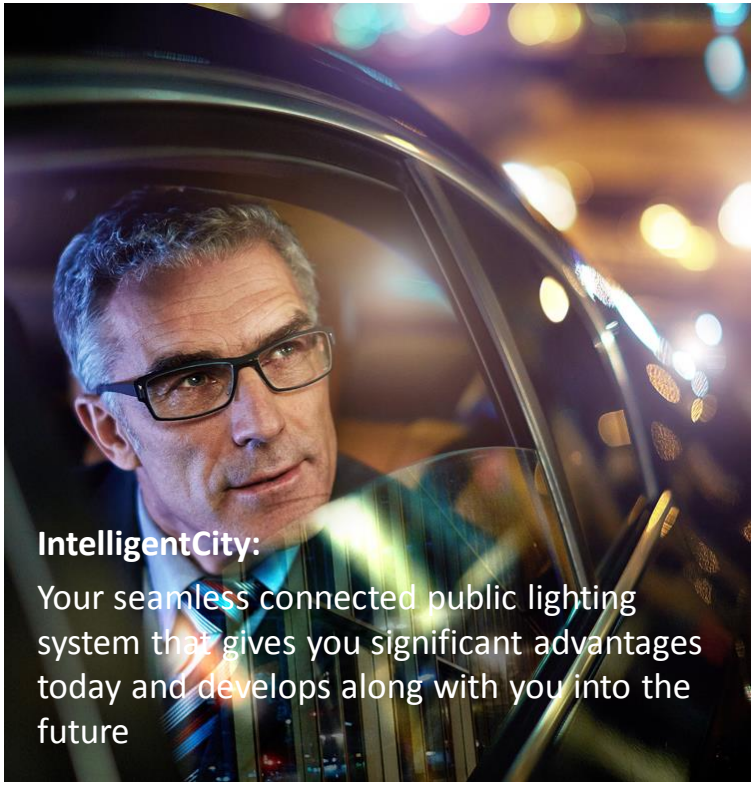


IntelligentCity helps you to improve operational performance and reduce cost by:

- Effective and simple lighting management
- Operational efficiency
- Energy management
- New business models

Benefits for Municipalities

Smarter lighting
… LED technology
… credibility opportunities to make cities smarter
… safer
… sustainable
… more livable



IntelligentCity turns public lighting into a smart innovative solution to enhance the image of your city by making it:

- Green and sustainable
- Safe and attractive for citizens
- More optimally city branded
- Innovative and future proof

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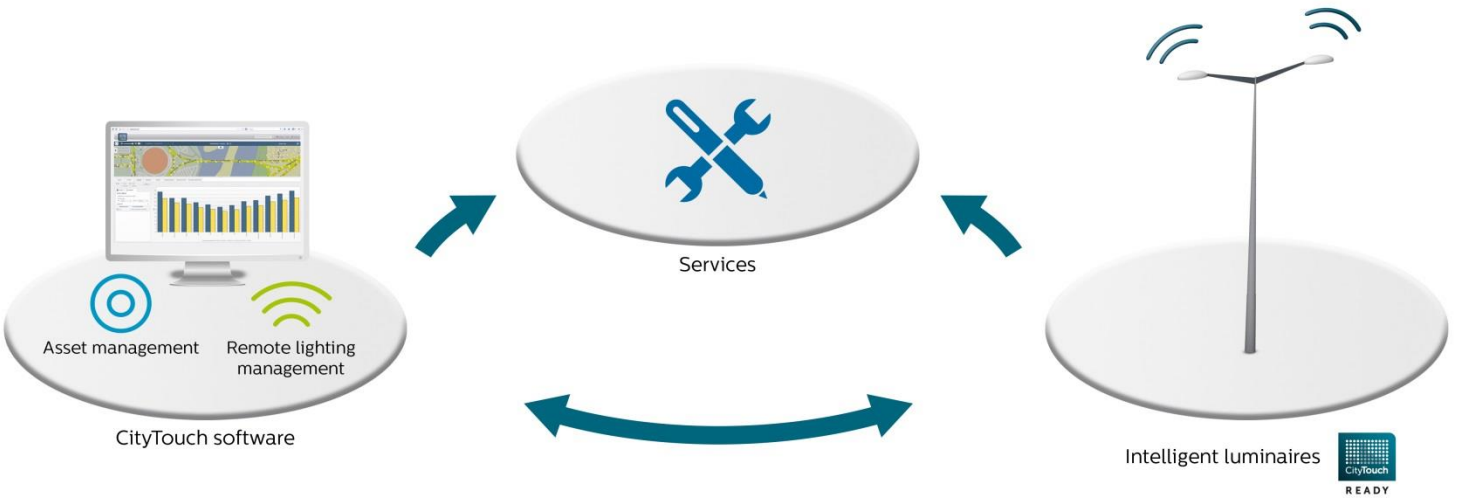
IntelligentCity: How it works

- IntelligentCity is a connected public lighting solution that connects light points with advanced lighting management software and dedicated services
- Dynamic, intelligent and flexible to any situation
- Detailed, real-time insight into status of lighting assets
- Seamlessly balances city ambiance with sustainability and safety



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CityTouch lighting management platform

A complete lighting management solution for entire city workflows…

Cloud based software service

We bring state-of-the-art software into lighting

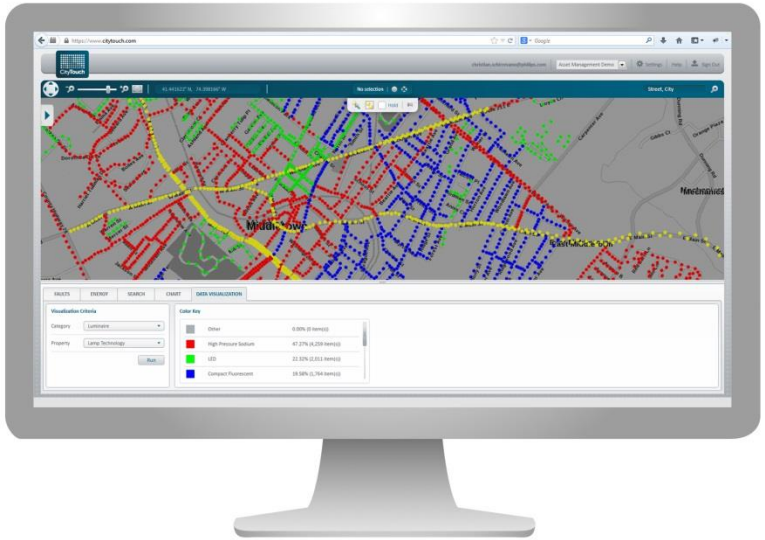
- Easy to use, intuitive workflows, beautiful and modern design

We are the outdoor lighting specialist #1 in the world

- We bring a full end-to-end solution in lighting

We provide the reliability of a global player

- Future-proof, scalable, secure



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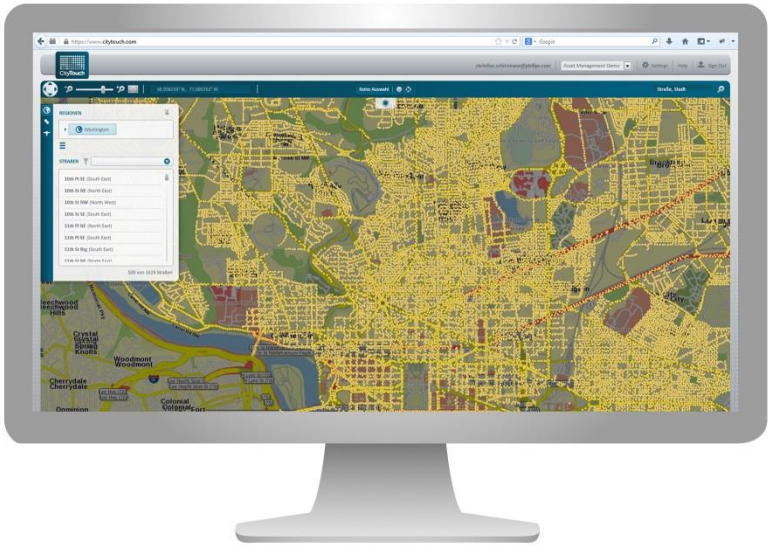
CityTouch lighting management platform



CityTouch LightPoint

Asset management application to control and manage lighting data and maintenance management

CityTouch LightWave

Remote lighting management to control and monitor public lighting infrastructure

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CityTouch LightPoint

Asset management – the power of data

The lighting assets in a city can be complex to manage. They can comprise a mix of installations along with different kinds of luminaires, light sources, poles, etc. all with various lifetimes and failures.

Clear benefits:

Lighting Data Management
- Increased transparency
- Deep insights
- Improved decision making

Lighting Maintenance Management
- Predictive maintenance
- Reactive failure handling
- Continuous monitoring & documentation

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CityTouch LightWave

Remote management – the power of control

A flexible service to manage mixed controls hardware solutions, including third party, through one simple user interface. Gives complete control over your city's daily lighting operation, including detailed analysis on system activities, tracking and energy reporting.

Clear benefits:

Remote management
- Flexible adaptation of light levels with a simple click
- Efficient planning through calendars

Energy measurement
- Real energy usage and full history
- Providing tools for measurement & verification

Light monitoring
- Actual lighting status
- Auto-notifications of faults

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Intelligent luminaires

Reducing cost in installation, operation and maintenance

CityTouch READY

Intelligent luminaires are designed for seamless connectivity with CityTouch via the public mobile network. No hassle in commissioning – just plug & play installation of the luminaire and then control and manage it from your desk through CityTouch lighting management platform.

Clear benefits:

Simple installation/operation
- Wide range available
- Easy to order and install
- Plug & Play installation
- Automated commissioning
- Automated location
- Automated asset data import
- No local networks

Connectivity
- Flexible adaptation of light levels
- Easy planning through calendars
- Easy adaption light levels
- Real energy usage & full history
- Providing tools for measurement & verification

Maintenance
- Actual lighting status
- Automated notifications of faults
- All luminaire data available type, drivers, LEDs, etc.
- Reduced spare part control
- Easy warranty

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IntelligentCity Services

Supporting services from start to finish

Advisory services	Basic City Audit TCO / TVO calculations
Project services	Asset data import Asset data collection System integration
Lifecycle services	Extended Warranty Maintenance packages Energy Performance Reporting & Consulting

Clear benefits:

Pre phase
- Fast & underpinned decision process
- Expert analysis of lighting installations

Project and Lifecycle
- Investment protection
- Peace of mind
- Efficient execution and delivery
- Reliable expert partners over full lifetime
- All technologies and services under one roof

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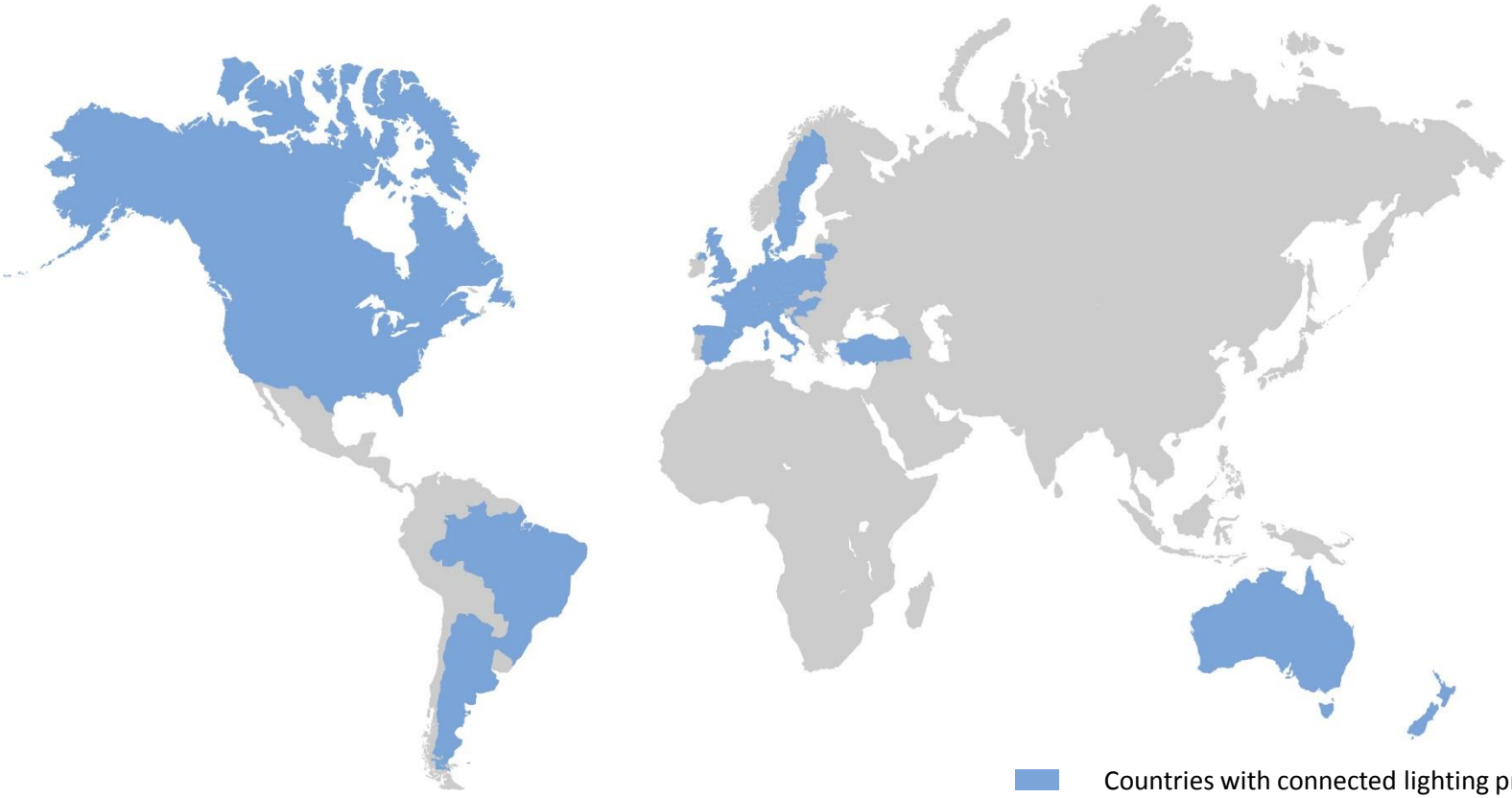
The reliability of a global player



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Palencia (Spain)

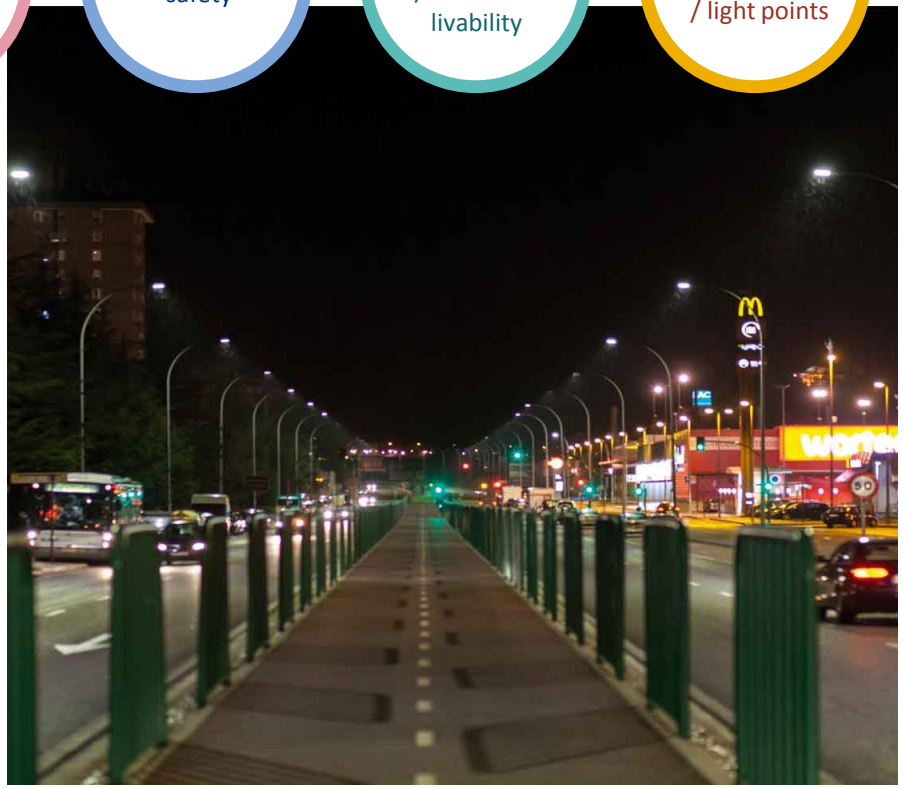
installation 2013

2,000,000
Financial Savings / EUR

Improved safety

Crime reduced / Enhanced livability

3,189
Large installation / light points



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Holbaek (Denmark)

installation 2013

Total control

Improved safety

70%
Energy savings

9,000
Large installation / LED luminaires

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Rotterdam (The Netherlands)

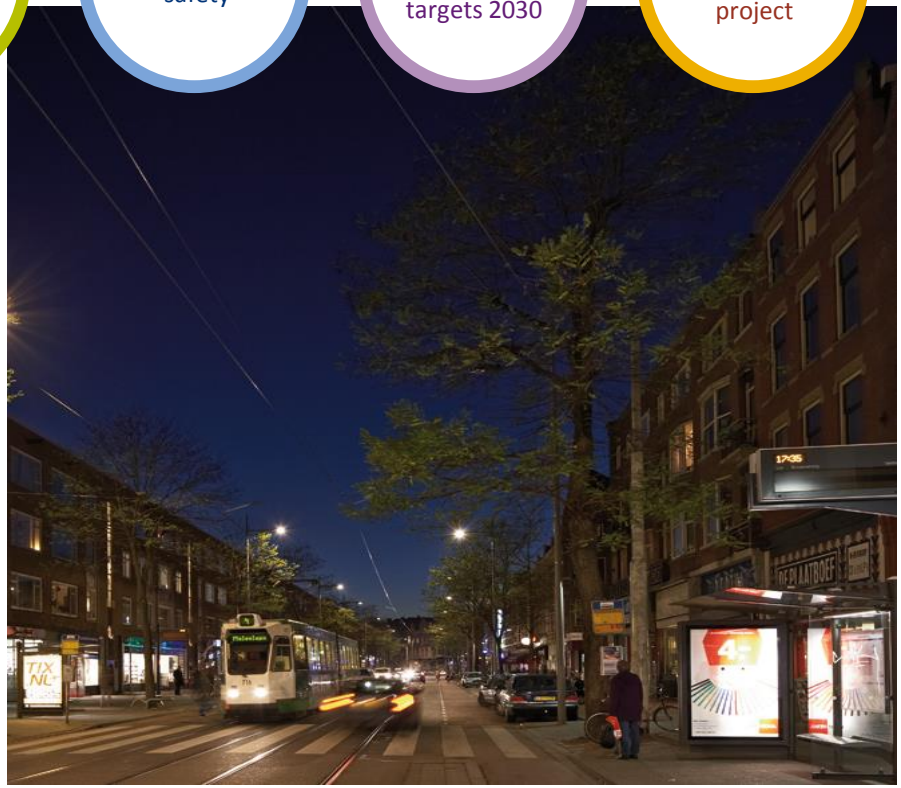
installation 2011

Reducing operational costs

Improved safety

Realize sustainability targets 2030

1st IntelligentCity project



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city.people.light
Award 2013
Guangzhou, China

Rietberg (Germany)

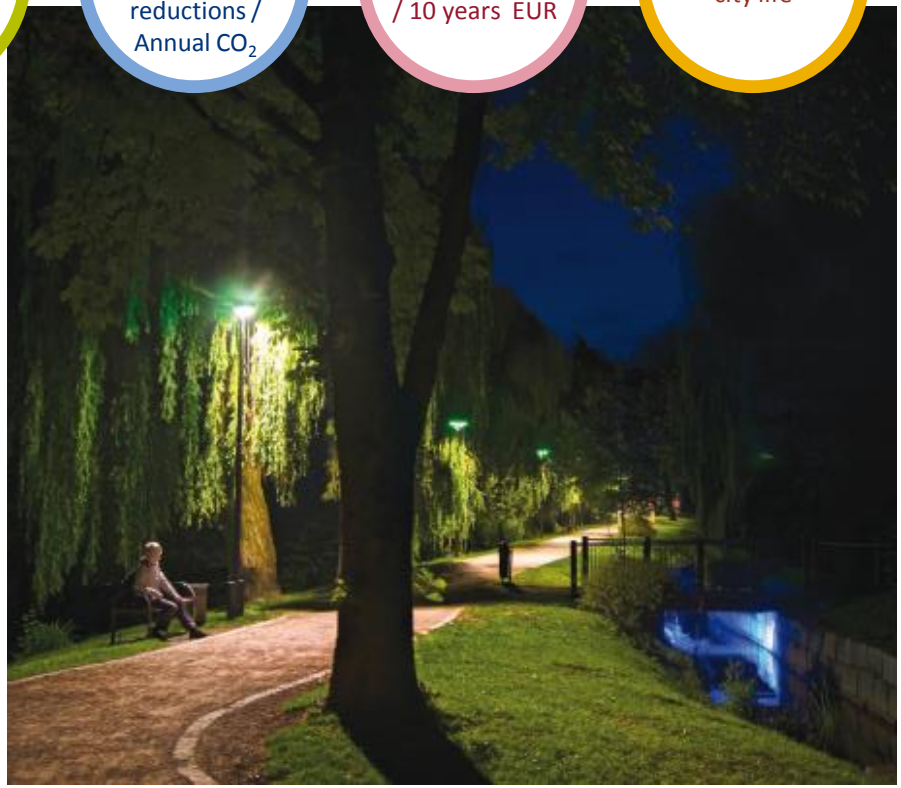
installation 2012

50%
Energy savings

29.3 tons
Emission reductions / Annual CO_2

117,476
Financial savings / 10 years EUR

Improving city life



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Salobre (Spain)

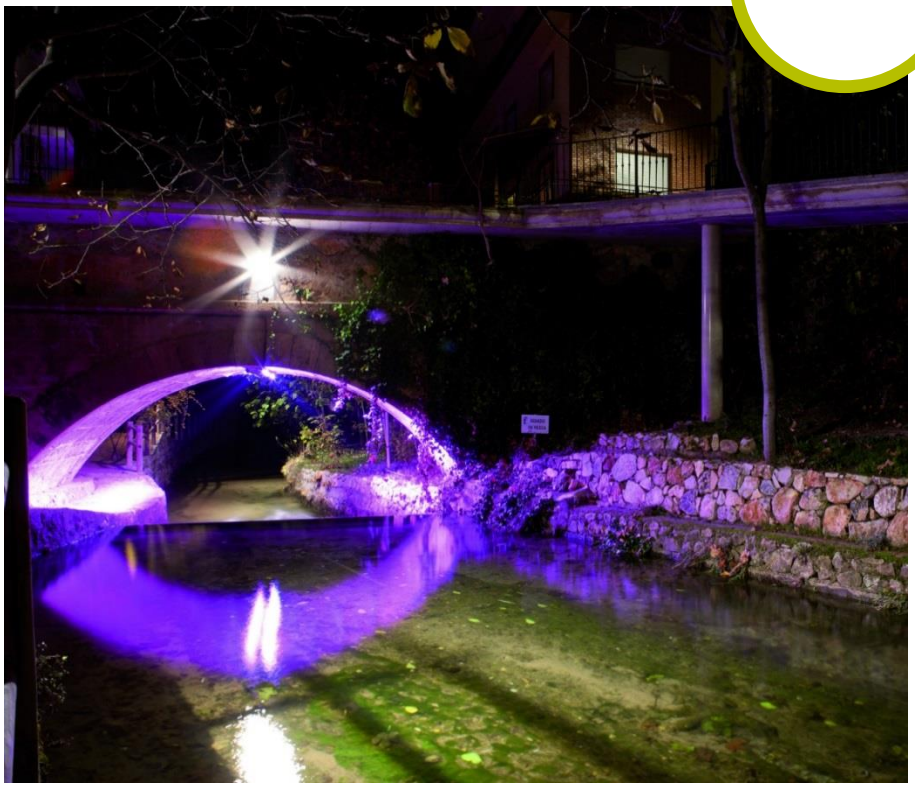
installation 2012

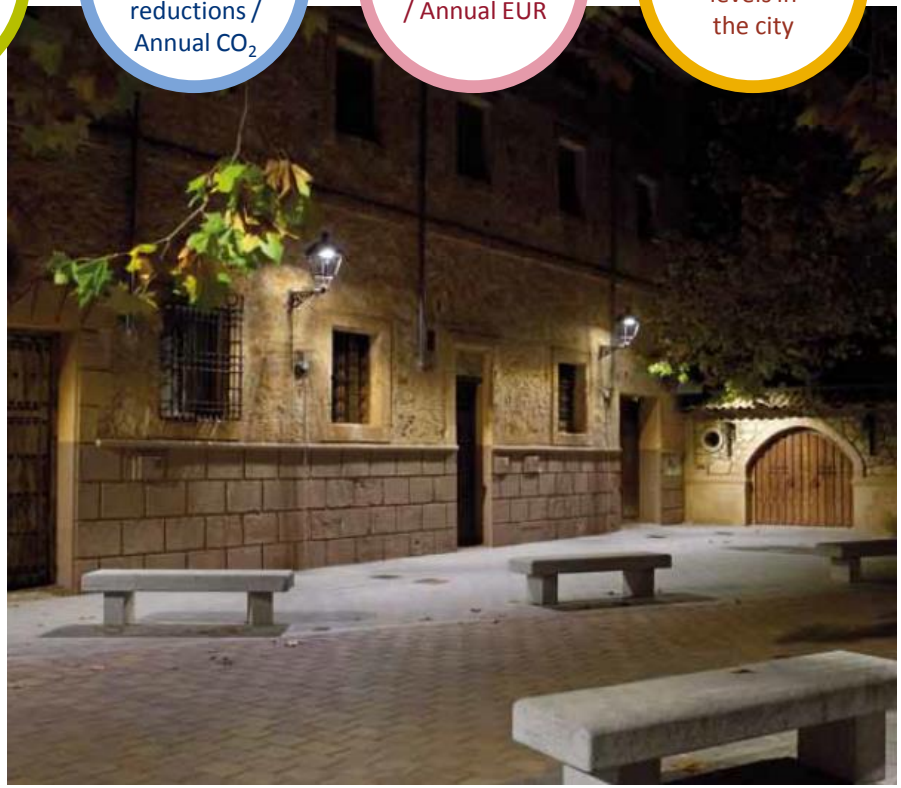
72%
Energy savings

29 tons
Emission reductions / Annual CO_2

18,459
Financial savings / Annual EUR

Optimize lighting levels in the city





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Feel the difference in YOUR city

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