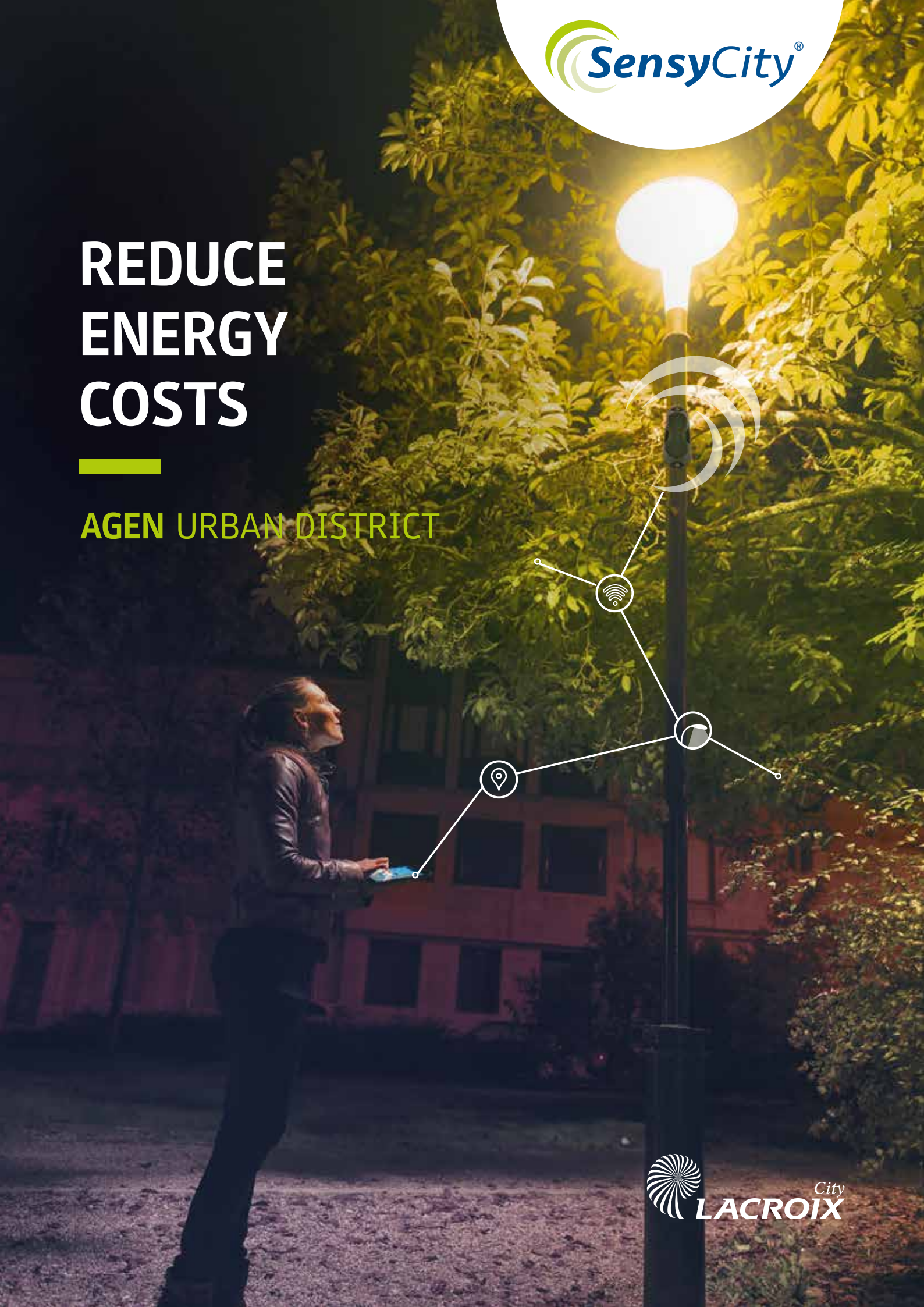
SensyCity®

REDUCE ENERGY COSTS

AGEN URBAN DISTRICT



City LACROIX

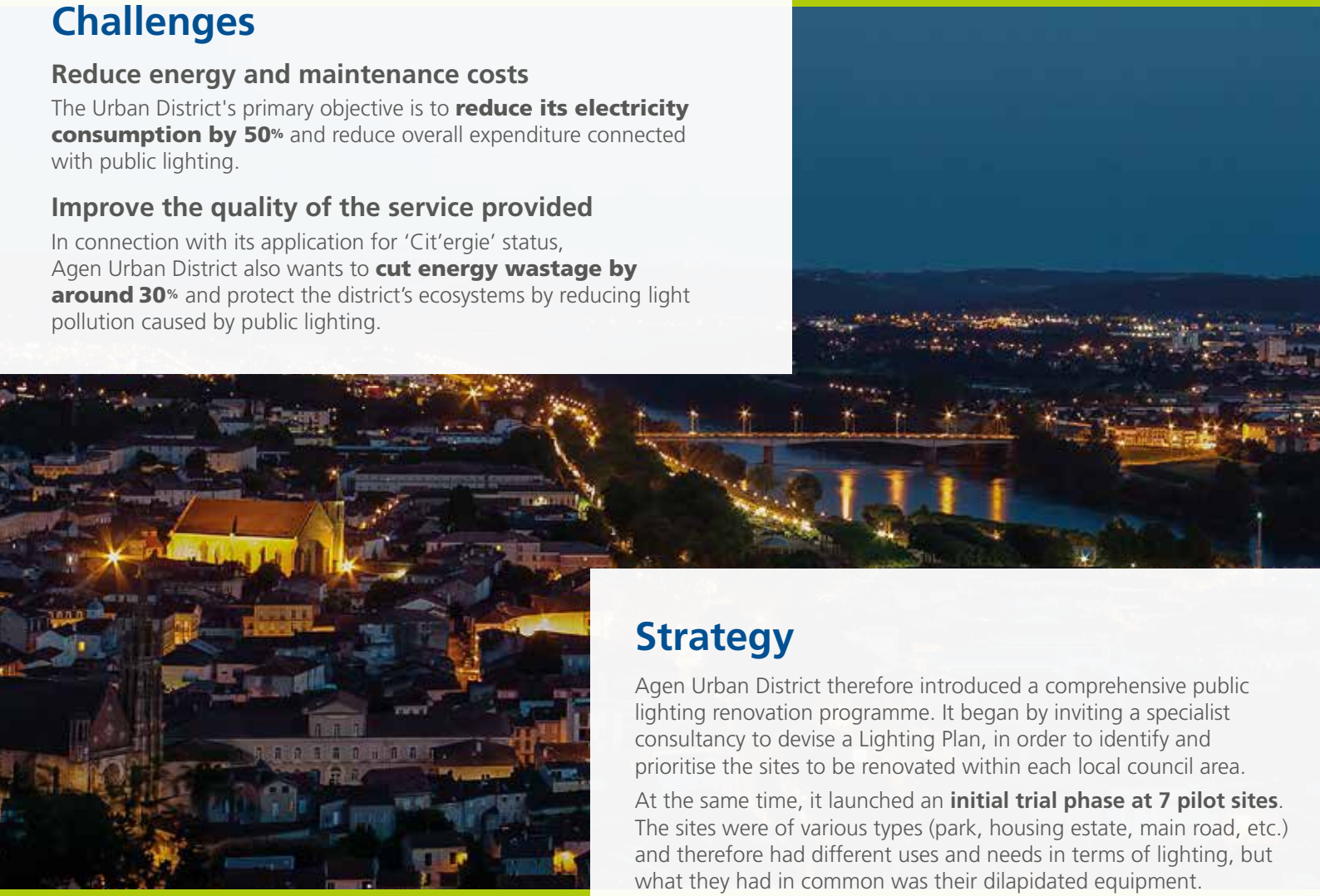
Challenges

Reduce energy and maintenance costs

The Urban District's primary objective is to **reduce its electricity consumption by 50%** and reduce overall expenditure connected with public lighting.

Improve the quality of the service provided

In connection with its application for 'Cit'ergie' status, Agen Urban District also wants to **cut energy wastage by around 30%** and protect the district's ecosystems by reducing light pollution caused by public lighting.



Strategy

Agen Urban District therefore introduced a comprehensive public lighting renovation programme. It began by inviting a specialist consultancy to devise a Lighting Plan, in order to identify and prioritise the sites to be renovated within each local council area.

At the same time, it launched an **initial trial phase at 7 pilot sites**. The sites were of various types (park, housing estate, main road, etc.) and therefore had different uses and needs in terms of lighting, but what they had in common was their dilapidated equipment.

TEST OBJECTIVES

THE 7 SITES WERE FULLY RENOVATED AND FITTED BOTH WITH LED LIGHTS AND WITH SMART MANAGEMENT SYSTEMS AND SENSYCITY® DETECTION SYSTEMS.

estimate potential savings
in energy costs

convince elected officials
of the value of the initiative for the Urban District

note the reactions
of local residents and other users

inform the local population
about investments made by the Urban District

Agen Urban District has around 20,000 lights, 75% of which are over 25 years old.

The continually increasing energy bill in respect of these lighting points currently stands at 1.4 million euros and urgent repairs are frequently needed in order to provide a satisfactory level of service.

AGEN URBAN DISTRICT IN FIGURES

31 local councils

20,000 lighting points (LP)

AGING LIGHTING INFRASTRUCTURE:
75% of LPs are **over 25 years old**

ENERGY CONSUMPTION:
1.4 million € p.a.

GROWING ENERGY BILL:
+5% p.a.

3
SensyCity®
VIA sensors
+ Radars SRM

121
SensyCity®
S.I.R. sensors

THE SOLUTION

On the advice of the Lumin'e Sens agency with respect to sensors, Agen Urban District opted for **LACROIX Sogexi's SensyCity® ecosystem** as it needed a **versatile solution**, that could be used with all types of LED lights and would be **easy to implement**.

4
scenarios

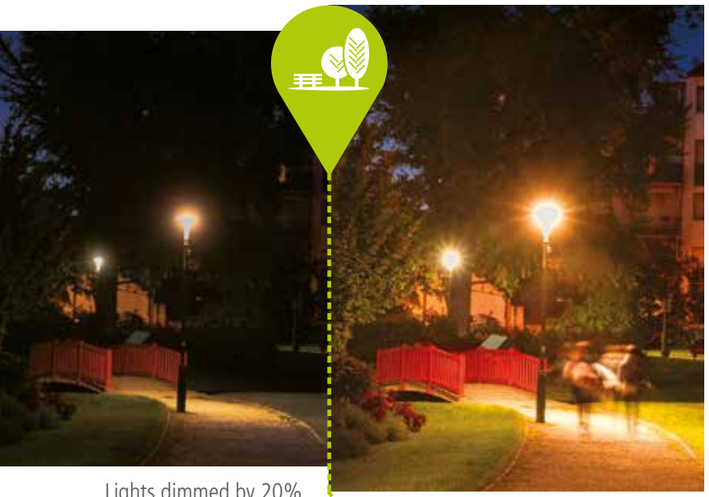
6
months
of tests

7 sites

huge
communication
campaign

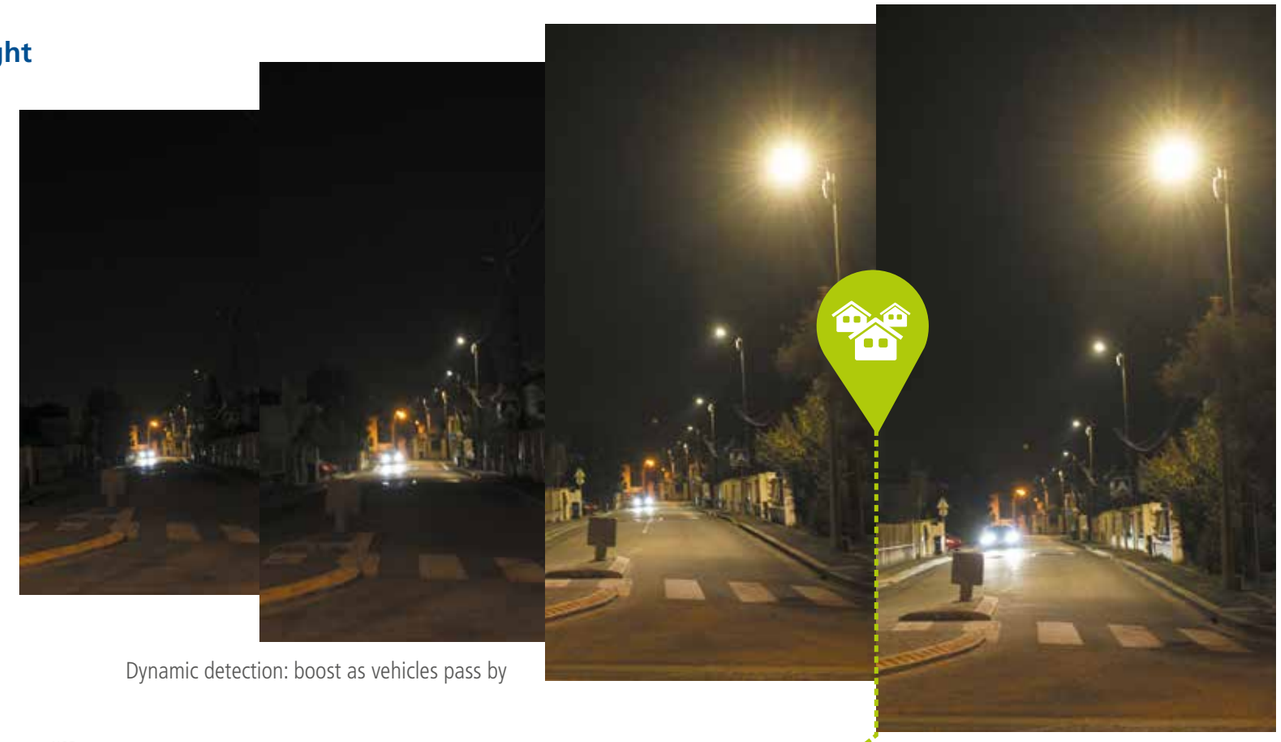
124
lighting
points

SensyCity®, communicating ecosystem to adjust light

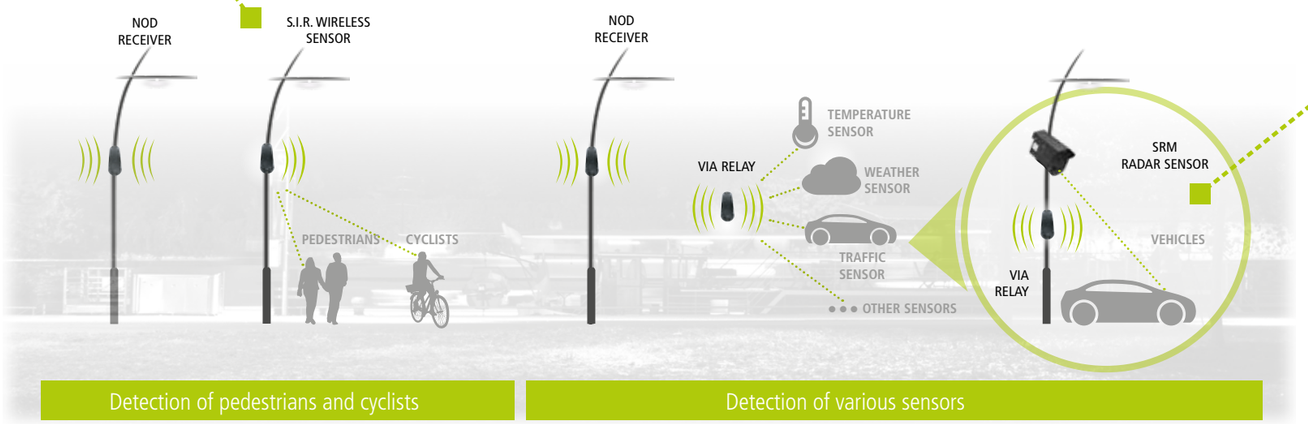


Lights dimmed by 20%

100% boost when sensor detects presence of pedestrians or cyclists



Dynamic detection: boost as vehicles pass by



WHAT THEY'RE SAYING ABOUT IT

With SensyCity®, you're guaranteed to save energy

The first results from the test sites speak for themselves: from **80** to **95%** reduction in energy consumption using the detection system, whereas **we were aiming for 50% savings** by just changing the technology (LED), when we started the experiment.

J-M Gilly, Vice-President of Agen Urban District, responsible for Public and Street Lighting, Mayor of Estillac

until 96%* energy savings

* measurements taken at 4 pilot sites fitted with LEDs vs previous installations using mercury vapour lamps/scenario providing 20% dimming + 100% boost on detection with SensyCity®

WHAT THEY'RE SAYING ABOUT IT

SensyCity® is really easy to use

Once you've been round and recorded all the sensors, you can set the settings you want without having to be on site.

Then you just need to be in the vicinity of the installation to inject the settings, without having to walk under every light.

Pascal TRAUQUET, Public Lighting Unit Manager - Traffic Lights - Agen Urban District and Town Joint Services Department

COMPELLING RESULTS

- Energy costs **6 times lower** on average
- **Service quality** and **user safety** maintained
- **Satisfied** local officials

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