



MODULATING STREET LIGHTING BASED ON TRAFFIC

A nighttime photograph of a city street. The foreground is dominated by long, horizontal light trails from moving vehicles, showing red, white, and yellow streaks. In the background, several streetlights are visible, casting a warm glow. On the right side, a large, dark structure with a grid of small, glowing lights is partially visible. The overall scene is dark, with the primary light sources being the streetlights and the light trails.

Combine
user safety
and energy
consumption
monitoring
in real time

Optimising energy consumption...

The use of LEDs and dimming of light points has helped to achieve an initial level of energy savings. **Adapting street lighting to real traffic conditions allows us to cross a new threshold: optimising consumption.**

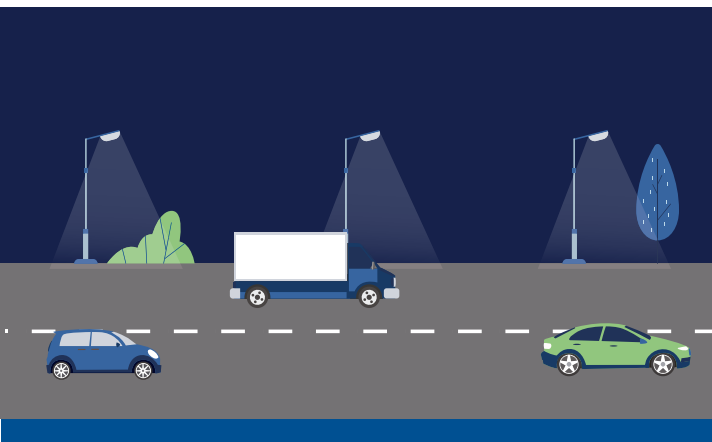
... made possible by the NF EN 13201 standard...

Street lighting is modulated in accordance with the series of NF EN 13201 standards. **The greater the number of vehicles, the more potential a situation has for accidents to occur, requiring an increased level of lighting on the road.**

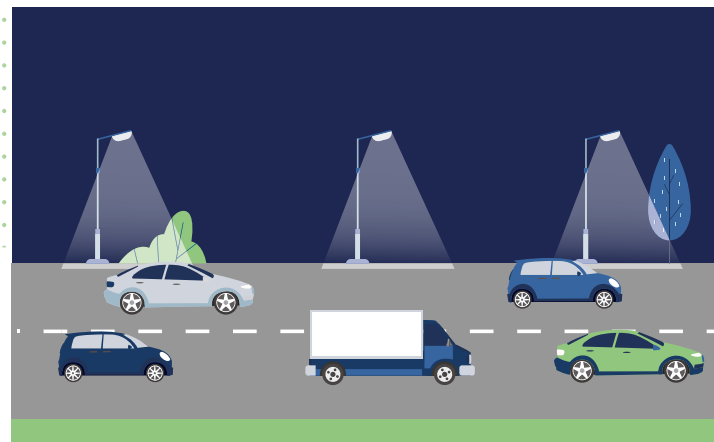
... and adjusts as best as possible to your city's needs

Lighting requirements are optimised through traffic density sensors. An increased level of service that guarantees user safety on structural roadways (boulevards, ring roads, bypasses, etc.).

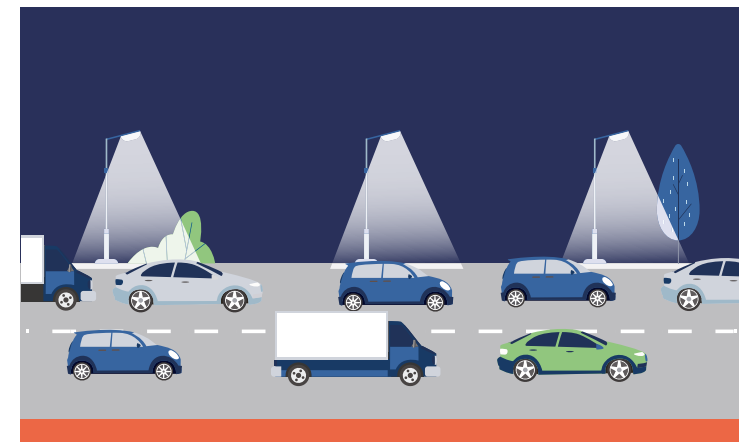
LOW TRAFFIC



MODERATE TRAFFIC



HIGH TRAFFIC

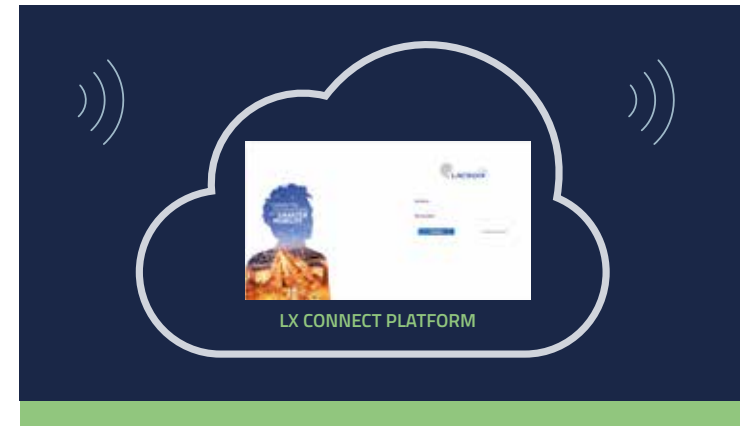


How does it work?



COLLECTING, DE-IDENTIFYING AND SECURING DATA

The **Bluevia** sensor reports Bluetooth fingerprints (MAC addresses) of vehicles. The information collected is systematically de-identified (CNIL) and sent via GSM or Ethernet network to the LX Connect platform.



PREPARATION OF JOURNEY TIMES AND TRANSFORMATION INTO TRAFFIC DENSITY LEVELS

Journey time calculations are made after capturing time-stamped addresses on the **LX Connect platform**. This transforms the journey time into three levels of traffic density: low, moderate and high.

Integrate our sensors:

The sensor dedicated to traffic data, **Bluevia**, calculates journey times and determines origins/destinations.

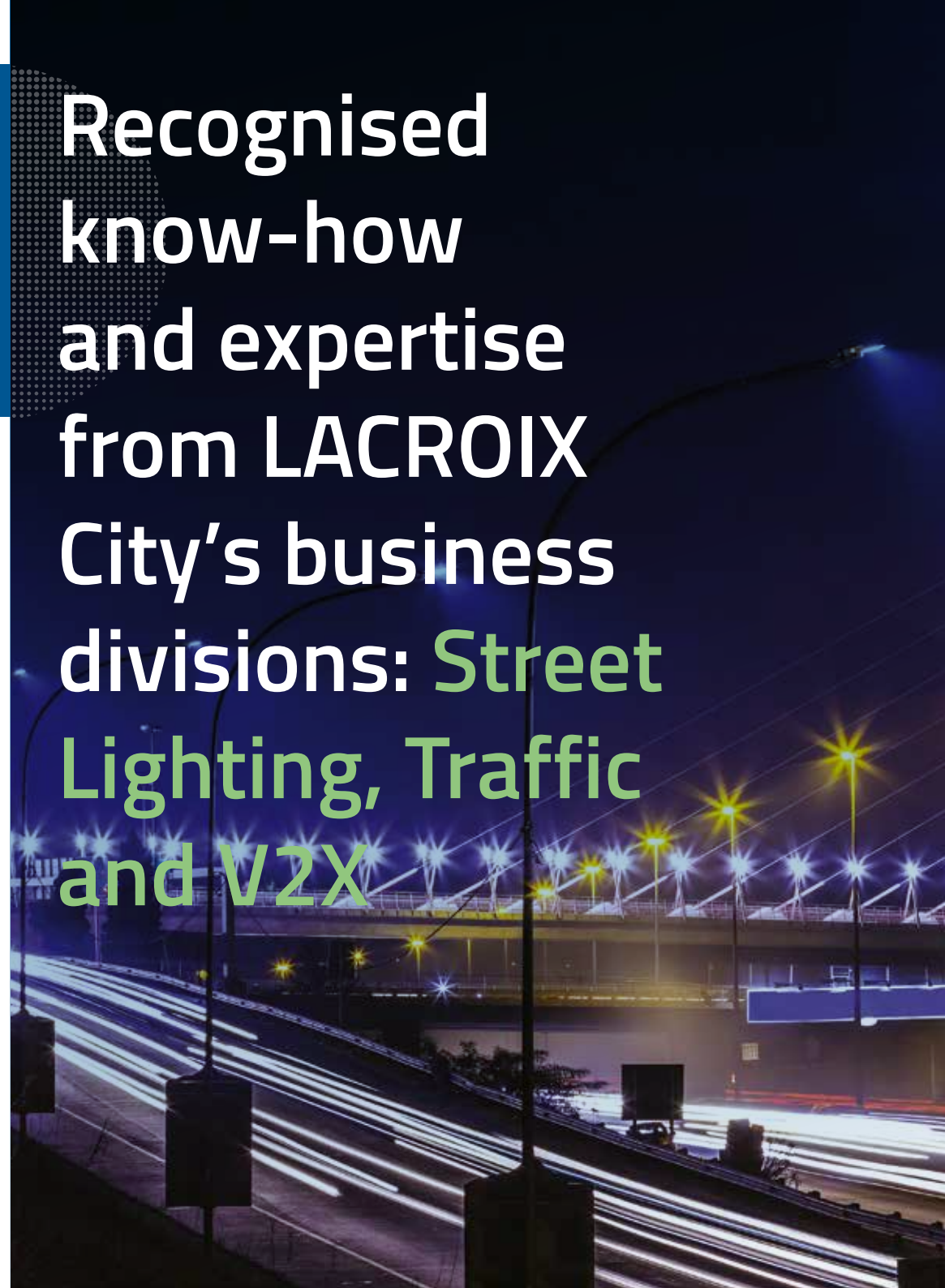
The sensor dedicated to communication between road infrastructure and connected vehicles, **Neavia V2I**, prepares your road infrastructure for the arrival of a connected vehicle.



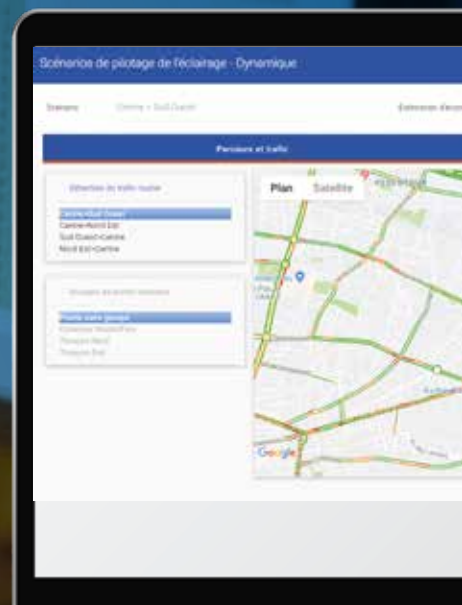
CONTROL OF LIGHT POINTS ACCORDING TO ACTUAL TRAFFIC CONDITIONS

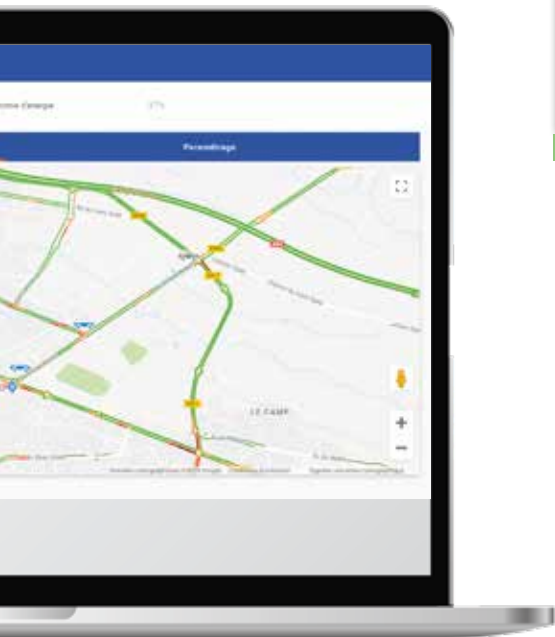
Tegis Lighting Plus adapts to information from the LX Connect platform and controls the light points. The information is updated every 10 minutes.

Recognised know-how and expertise from LACROIX City's business divisions: **Street Lighting, Traffic and V2X**



LX Connect Platform: An interface that is...

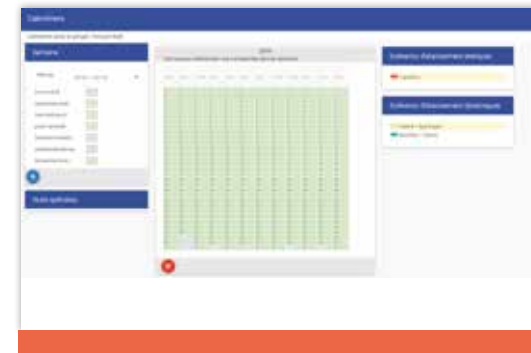




... **ERGONOMIC**



... **EASY TO CONFIGURE**



... **FLEXIBLE**

with the possibility to **control the light points** either by static dimming or dynamic dimming (depending on changes in traffic density).



... **EQUIPPED WITH ANALYSIS DEDICATED TO DYNAMIC LIGHTING**

based on traffic density, with an estimate of the associated energy savings.

LACROIX City Street Lighting Division, street lighting solutions and equipment



8, impasse du Bourrelrier – BP 30004
44801 Saint-Herblain cedex France
Tel. +33(0)240 923 730
lacroix@lacroix.com
www.lacroix-city.com

LACROIX City Street Lighting Division
1 rue de Maupas
69380 LES CHÈRES – FRANCE
Tel. +33 (0)478 473 355
eclairage-public@lacroix-city.com

www.lacroix-city.com



Paper from sustainably managed forests.