ECOLUMIERE INTELLIGENT LIGHTING
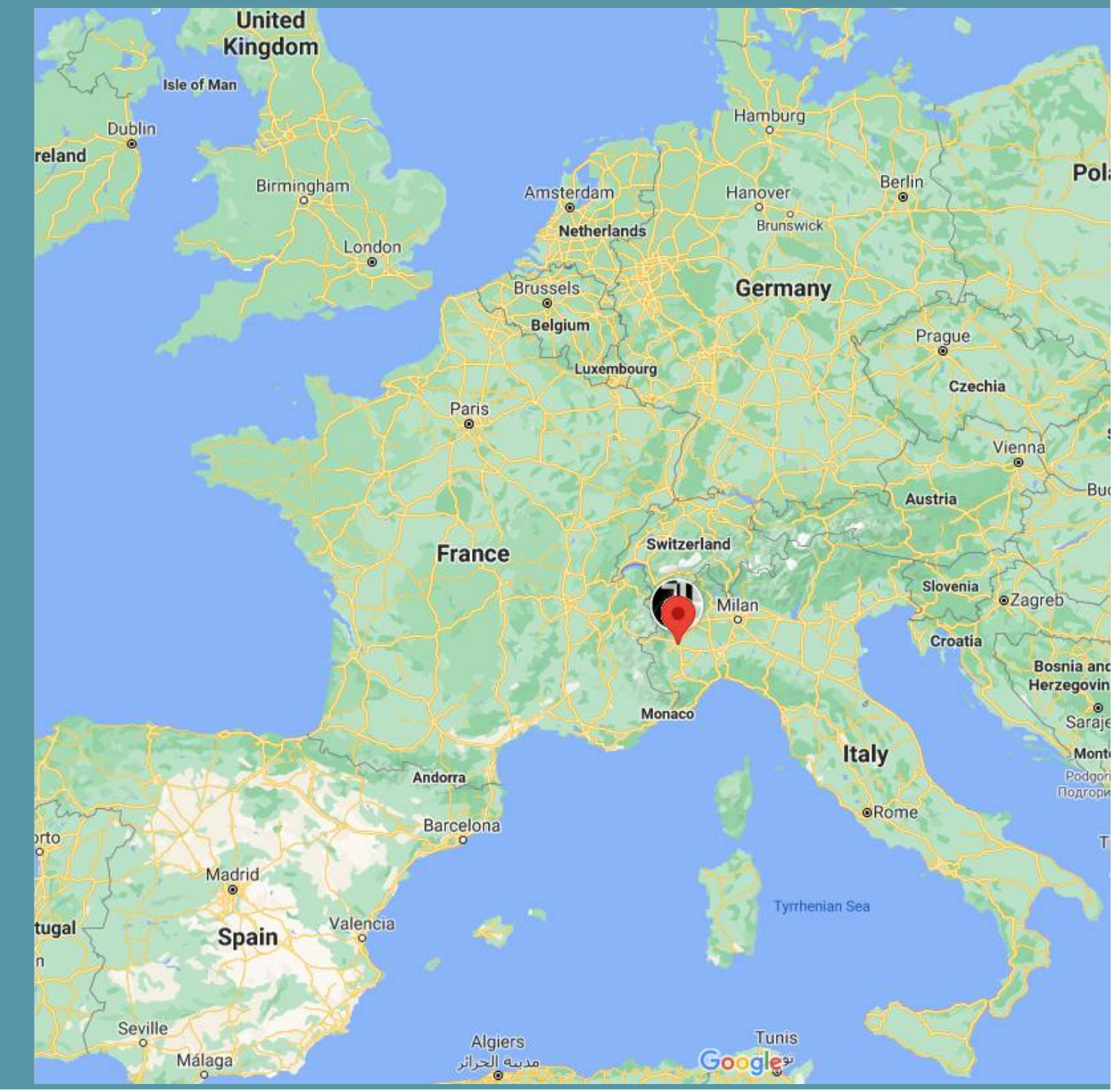
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NEODELIS VISION OF LIGHTING DEVICES

UNIQUE PATENTED IoT LED LIGHTS WHICH INTERCOMMUNICATE and TRANSFER DATA ACROSS THE LIGHT SPECTRUM. BY AUTO-DIMMING WHEN PRESENTED WITH NATURAL LIGHT IN THEIR ENVIRONMENT, THEY SAVE BETWEEN 30%–50% ENERGY COSTS WHEN COMPARED TO STANDARD LED LIGHTS

néodelis®

THE COMPANY

- Neodelis was founded in 2012 as an LED lighting distributor in Italy
- From 2014 to 2020 designed and developed Ecolumiere®
- In 2020 launched Ecolumiere® T8 tubes, ceiling and industrial lights
- In 2020 opened sales channel in Italy and won significant accounts
- From 2nd Qtr., 2021, began expansion through distributor-partners in EMEA and US

MANAGEMENT TEAM AND SHAREHOLDERS

FLAVIO GHIRARDI

FOUNDER & CEO

With a long experience in LED lighting and tech companies. Flavio has a physics degree and worked at CERN.

mondoPOWER

SHAREHOLDER

Company with 20 years' experience in renewable energy sources and in System for energy efficiency

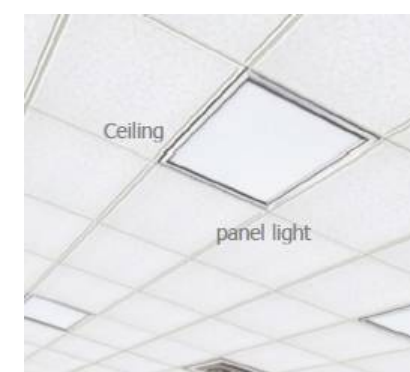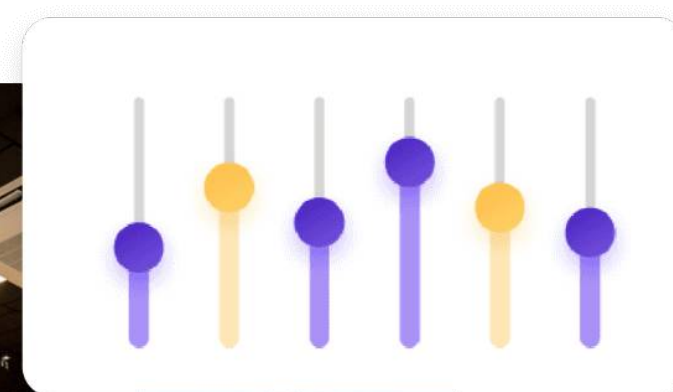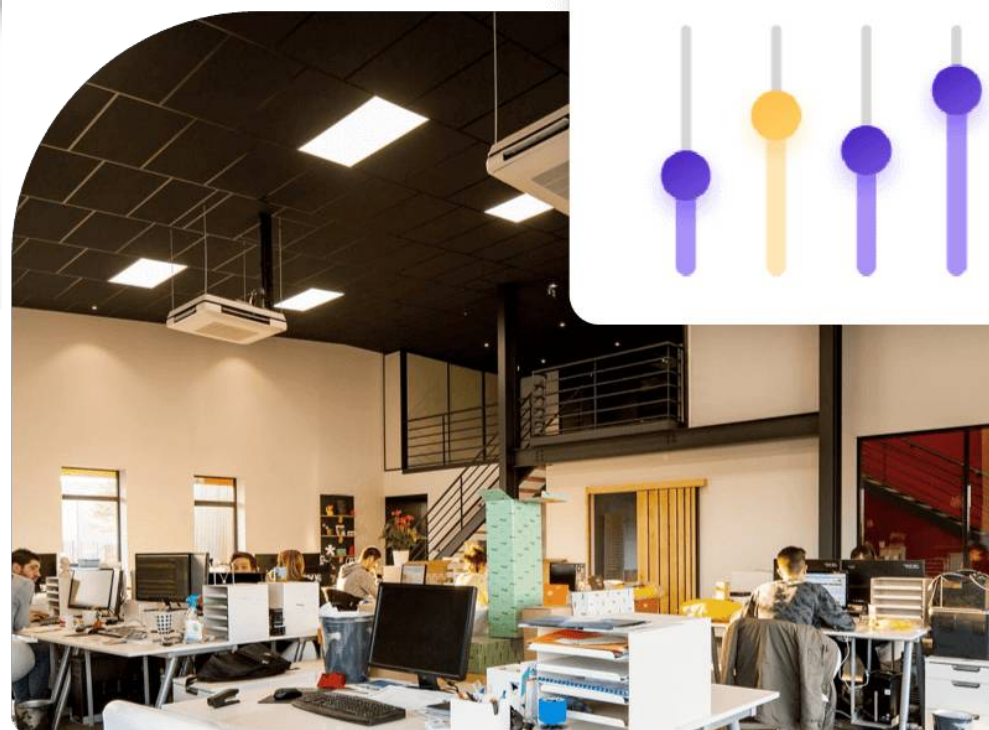## DR G. OCCHILUPO

FINANCE AND SALES

With 25 years' experience of energy efficiency's project. He is electrical engineering and CEO of Mondopower

FRANK NOON

VP SALES

With over 30 years' experience in worldwide tech sales and management; founded two companies which successfully exited.

- **Our Mission is to supply intelligent lights which do not require external sensors, complex cabling, complex system setup and maintenance**
- Neodelis only supply our own brand interior and exterior lamps with integral movement and light sensors enabling significant reductions in energy consumption, resulting in significant cost-savings.
- Neodelis branded and patented lights have an affordable price-point for most use-cases.
- Our product portfolio includes a comprehensive range of Bluetooth, Wi-Fi and stand-alone lamps.

PRODUCT PORTFOLIO

Neodelis has a full portfolio of smart lamps for intelligent use of the light without installation and maintenance complexity
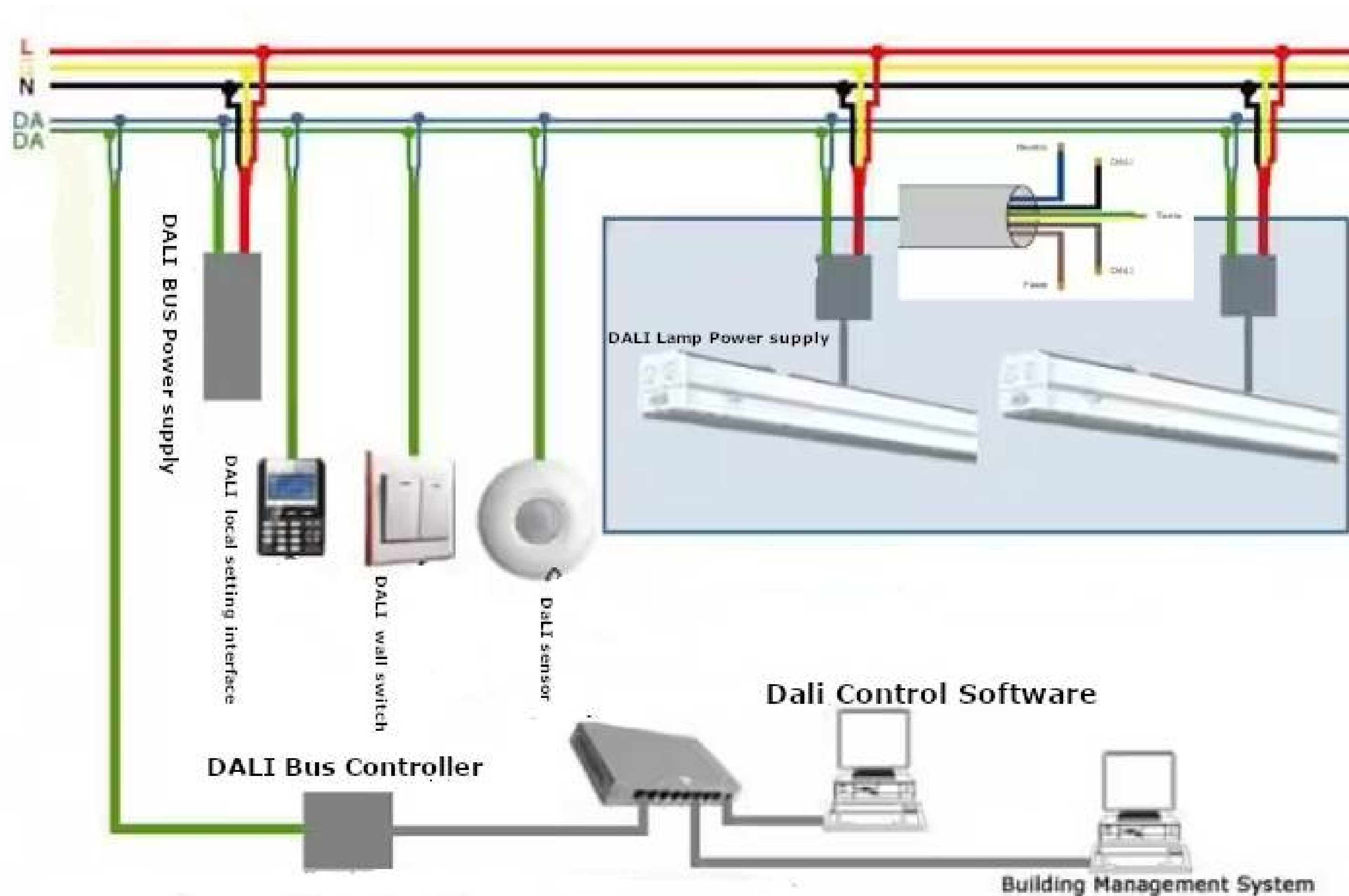
R&D

Neodelis has invented and produces unique patented Ecolumiere lamps

néodelis®

- **Unmanaged LED lighting cannot manage light levels – and fall well short in terms of potential energy savings**
- Current intelligent lighting is expensive and complex to install
- Non-integrated light sensors are inefficient, expensive and complex to install
- Wi-Fi intelligent lighting is easily hacked and isn't permitted in many organisations (for example, all kindergartens in France)
- Wi-Fi intelligent lighting emits electromagnetic interference, so cannot be used in hospitals where there are MRI and CT scanners
- Wi-Fi intelligent lighting cannot be used in petrochemical plants
- Current intelligent lighting need expensive annual maintenance – resulting in significant ongoing costs

THE PROBLEM

Standard LED lighting offer far less savings than standard intelligent lighting.

Standard Intelligent lighting provide limited benefits due to expensive installation and maintenance costs.
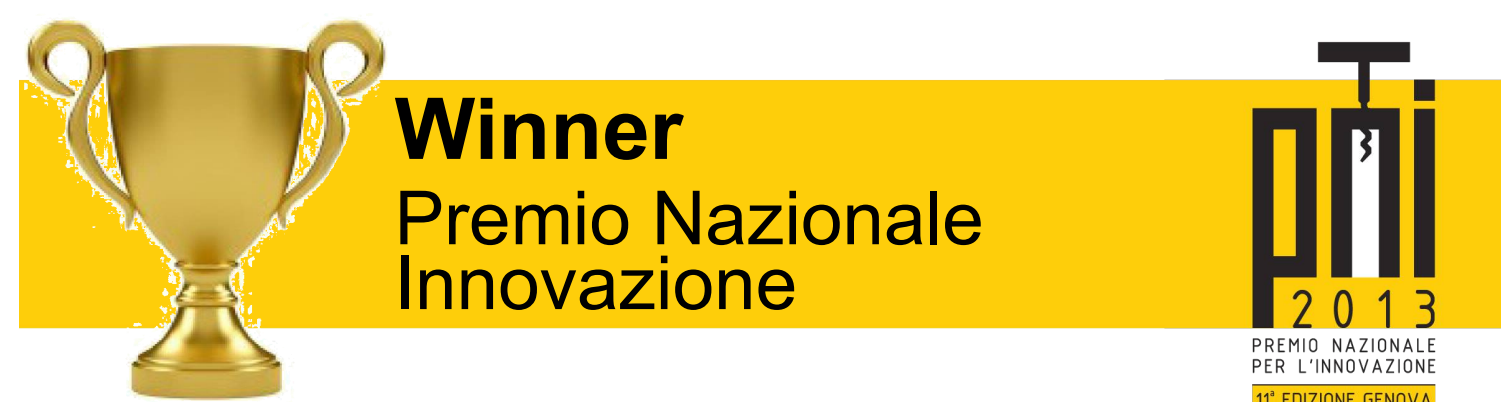
THE PROBLEM

To install and maintain a full information technology infrastructure for managing standard intelligent lights.

Simplify the process of user intervention and modification of the lighting settings via the Ecolumiere APP

néodelis

Diagram labels

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DALI BUS Power supply

DALI local setting interface

DALI wall switch

DaLI sensor

DALI Lamp Power supply

DALI Bus Controller

Dali Control Software

Building Management System

néodelis

- **Existing Ecolumiere adapts to changes in daylight/lighting levels – enabling it to reduce power consumption intelligently, maximising energy savings**
- Each light has its own integrated light sensor and CPU – this allows for automatic, dynamic coordination between lamps, reducing energy costs by up to 50% when compared to standard LED lighting
- Ecolumiere is aimed at businesses that wish to reduce their energy costs and carbon footprint and take advantage of grants for reducing CO_2 emissions
- Ecolumiere is secure – it cannot be hacked remotely – and is ideally suited to large enterprises, military and government use
- Ecolumiere does not produce electromagnetic interference and can be used safely in kindergartens, hospitals and petrochemical plants
- The Ecolumiere app provides continually updated energy saving information and enables users to make lighting adjustments easily

Winner
Premio Nazionale
Innovazione

PNI 2013
PREMIO NAZIONALE
PER L'INNOVAZIONE
11° EDIZIONE GENOVA

2019
IoT / WT
INNOVATION
WORLD CUP®

IoT/WT
INNOVATION
WORLD CUP®

START
CUP
Torino Piemonte

StartCup
Piemonte Valle d'Aosta

Cleantech prize
by Unioncamere Piemonte

UNIONCAMERE
PIEMONTE

THE SOLUTION

Ecolumiere lights are an all-in-one solution. They are fitted easily and don't require additional cabling, special equipment, technical expertise or annual maintenance costs.

50%

SAVE BETWEEN 30%–50% WHEN COMPARED TO STANDARD LED LIGHTING

- **Ecolumiere saves organisations money and helps them achieve their CO2 emission targets (0.15 tons CO2e savings per lamp per year)**
- Ecolumiere delivers up to 50% greater savings than standard LED lighting
- Ecolumiere delivers up to 80% greater savings than neon lighting
- Ecolumiere can be installed without downtime for customers
- Ecolumiere requires no more maintenance than current unmanaged LED or neon lighting
- Ecolumiere **reduces electronic waste** of sensors, control units, cabling

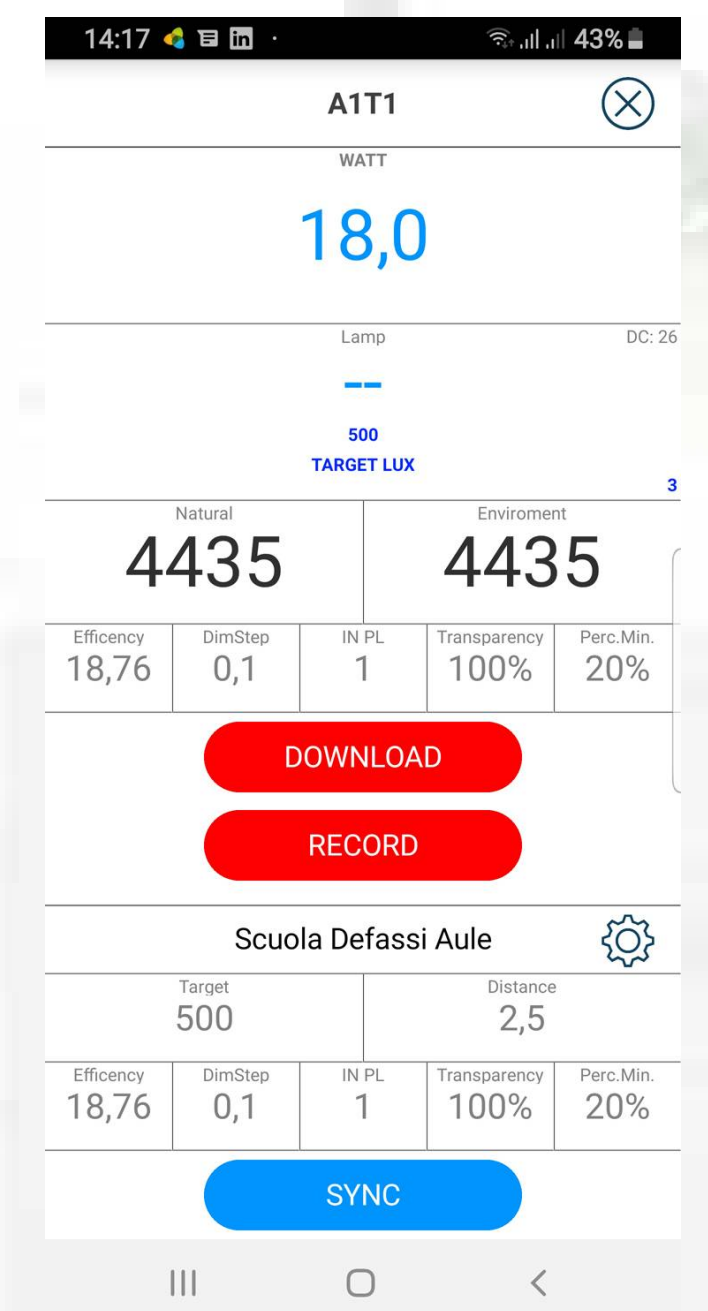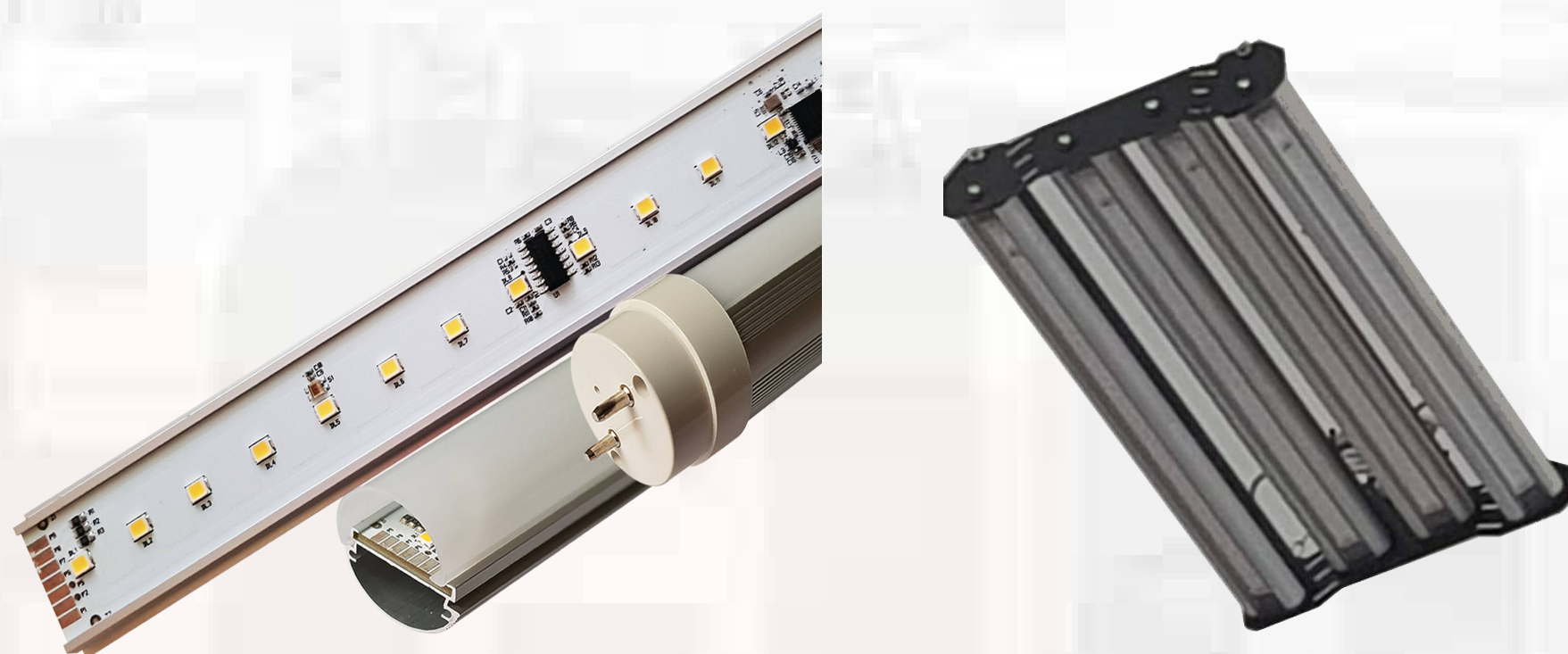**ECOLUMIERE PRODUCTS ARE PROTECTED UNDER WORLDWIDE PATENT**

THE BENEFITS

Ecolumiere is more than a lamp. It is sophisticated IoT intelligent device able to integrate more sensors to save energy and make life better

50%

SAVE UP TO 50% WHEN COMPARED TO STANDARD LED LIGHTING

ACTUAL ECOLUMIERE PRODUCT PORTFOLIO

- Ecolumiere® T8 LED 120 cm tube. To replace LED T8 standard tubes or fluorescent tubes, without need of specialist-skills
- Ecolumiere® T8 LED 120 cm tube. To replace LED T8 standard tubes or fluorescent tubes, without need of specialist skills
- Ceiling light. 120x30 and 60x60 cm ceiling and counter ceiling lights. Mounting as any other LED office light.
- Industrial lights. 50w and 100w industrial light. IP65 and dust-proof light for production plants and industrial use
- Ecolumiere® App to programme embedded parameter changes in the lights and download usage-data of any Ecolumiere® product
- Ecolumiere® web available interface to interrogate light usage data and download for reporting purposes

To develop new Ecolumiere products

- Noxious gases sensors
- Sensors and specific algorithm to detect earthquakes
- People counting sensor to reduce crowding
- Many other potential environmental sensors
- Photocatalysis system and quality of air sensor for sanitisation
- Specific sensor-driven horticultural lamps

PRODUCT DEVELOPMENT

Ecolumiere is more than a lamp. It is sophisticated IoT intelligent device. More in-demand sensors are included in the Roadmap.

néodelis®

MORE INFORMATION

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SEE ECONOMY IN A WHOLE NEW LIGHT

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