# Tegis®



DEMAND MORE THAN JUST LIGHT FROM YOUR STREET LIGHTING



### YOUR SMART TERRITORY

# THANKS TO IMPROVED STREET LIGHTING

#### Dynamic lighting

(detection, depending

on traffic density),
variable-message signs,
festive illuminations,
PA systems, market
plots, water distribution

stations, CCTV cameras...

... are services for citizens and sources of security and functionality for businesses (city centre appeal, quality of service, information) to live the city on a daily basis.

Today, each of these services can be connected to the lighting network or operate from their own dedicated power grid. In this context, how can we offer new services to citizens and encourage new uses?

That's the whole point of the smart city, built on an improved street lighting network.

In order to connect third-

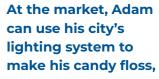
party services to the street lighting network and offer a range of services that are adapted to new urban uses, a **24-hour permanent power supply is essential**. This power supply will be sourced from the street lighting network in your community.

Tomorrow, citizen will be able to access the Internet by connecting to their city's WiFi, or recharge their electric bikes by connecting to a lamp post, as well as benefitting from many other uses that are yet to be imagined.









to the delight of all the locals with a sweet tooth.

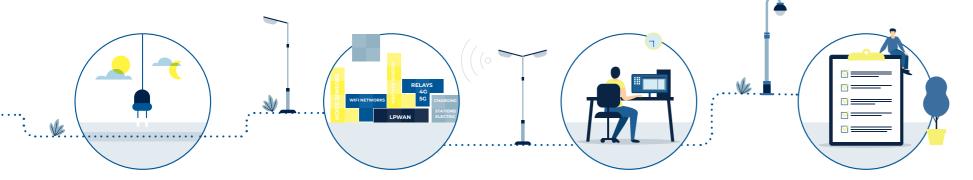


Thanks to their city's lighting network, Jack and Julia can surf the web on their WiFi-connected mobiles and check the showing times of the next film being screened at the cinema.



## **TEGIS LIGHTING PLUS 24/7**

# INTELLIGENT STREET LIGHTING MANAGEMENT ECOSYSTEM FOR 24-HOUR OPERATION



Transform any street lighting network into a permanent supply grid for new services, in a simple manner and without any civil engineering:

- By integrating a Tegis control unit into the street lighting cabinet
- ▶ By integrating TNX24 nodes and the TRX associated relay into the candelabra masts

## Sustain and adapt your infrastructure to the pace of your changing needs:

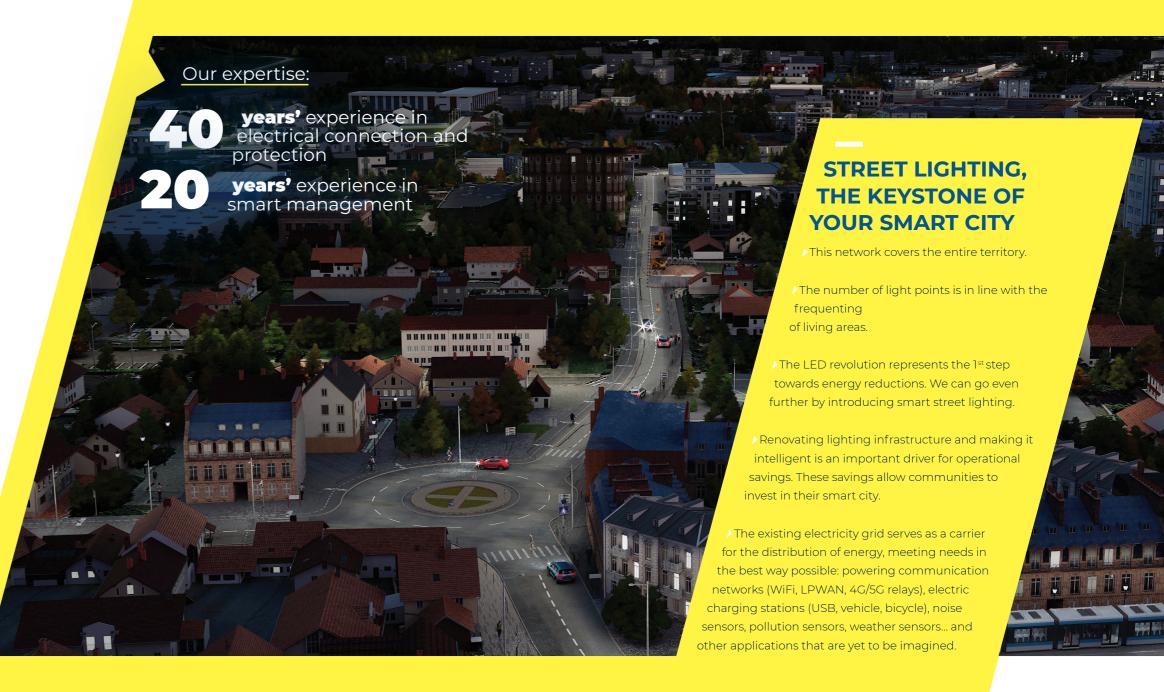
- Either all cabinets or only few of them operate 24/7
- Intelligent management of public lighting can easily evolve into 24-hour intelligent management of street lighting and associated third-party services

#### Control and monitor the cabinet, lighting points and third-party services, powered by the street lighting network:

- Remote configuration on the LX Connect interface
- Dimming control at light points DALI
- Third-party services dry contact
- Programming of groups of light points or third-party services independently of power cabinets
- Real-time monitoring of each light point and its associated third-party service
- Fault analysis

Collect and analyse the power consumption of the cabinet, light points and third-party services, powered by the street lighting network:

- Electrical measurements of light points and third-party services in snapshots, daily reporting of consumption indexes for light points and third-party services
- Energy counting
- Analysis of consumption distribution between light points and third-party services



## LX CONNECT

## AN INTUITIVE, **ERGONOMIC** AND SECURE PLATFORM

- The LX Connect platform is easy to navigate, giving access to the control configuration, monitoring, consumption reporting and installation analysis, from the cabinet to the light points and associated third-party services
- The LX Connect is scalable with a web interface that gives automatic access to the latest features
- ▶ A secure environment

#### **CONTROL AND MONITORING OF THIRD-PARTY SERVICES**





**CABINET CONTROL PROCESS** 



#### AND DISTRIBUTION OF CONSUMPTION











### **TNX24, A COMMUNICATING NODE**

### AND THE ASSOCIATED TRX RELAY NODE

.....2 DALI outputs

To third-party service

Third-party service consumption measurement

230 V power supply



TNX24 state light

1 ON/OFF 230 V drycontact output, to power light points

Entry 0–12 V .....

measurement

1 ON/OFF 230 V dry-contact output, · to power third-party

To consumption

Every node is a transmitter, receiver and repeater

- 2 DALI outputs, up to 4 lighting fixtures per DALI output\*
- 1 consumption measuring device on all light points + 1 dedicated measuring device for third-party services
- 3 unique addresses by TNX24:
- 2 for light points
- 1 for third-party service
- Up to 150 unique addresses per control unit
- Distance between 2 **nodes:** 150 m

- Breaking power: 2 A 230 V Dimensions in mm (W × H
- × D): 36 × 85 × 43 – 2 modules/ DIN Rail
  - **Energy measurement** class (active power): Class 0,5 for light points Class 1 for third-party
  - Standby power consumption: 0.55 W

services

- Operating temperature: -25 to +55°C
- Operating voltage: 230 VAC
- Certification: ( €

**Breaking power:** 6 A – 230 V Dimensions in mm (W × H × D): 18 × 85 × 43 – 1 module/DIN Rail

- Operating temperature: -25 to +55°C
- Operating voltage: 230 VAC
- Certification: ( €



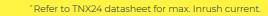
**Control unit and PLC** module



**24-HOUR** CONFIGURATION. AVAILABLE FOR 4 M MASTS THANKS TO THE CITYPAK, THE JUNCTION BOX

THAT IS ENTIRELY DEDICATED TO INTELLIGENT STREET





CONNECTED
TECHNOLOGIES
FOR SMARTER
MOBILITY



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