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?

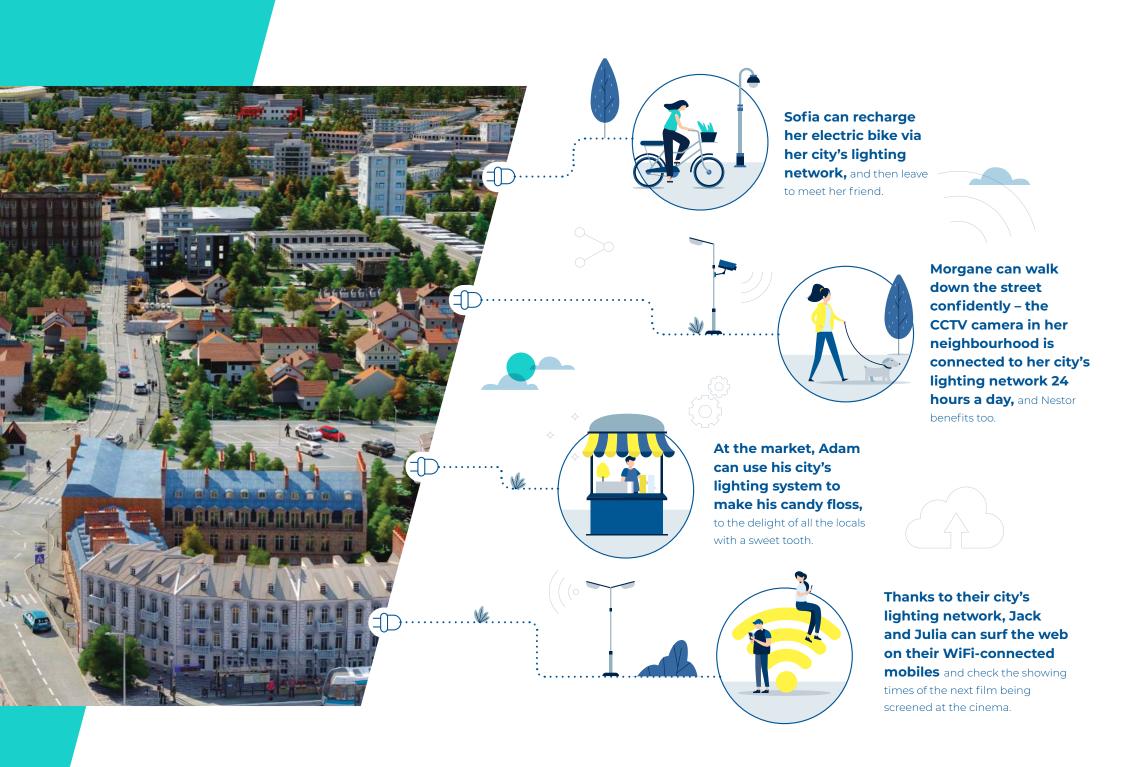
That's the whole point of the smart city, built on an improved street lighting network.

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.

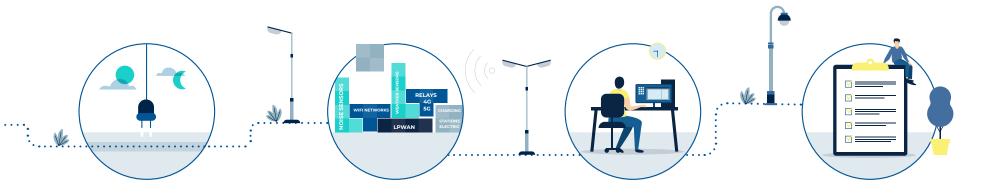
Tomorrow, citizen will be able to access the Internet by connecting to their city's WiFi, or recharge their electric bikes by connecting to a lamp post, as well as benefitting from many other uses that are yet to be imagined.





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:

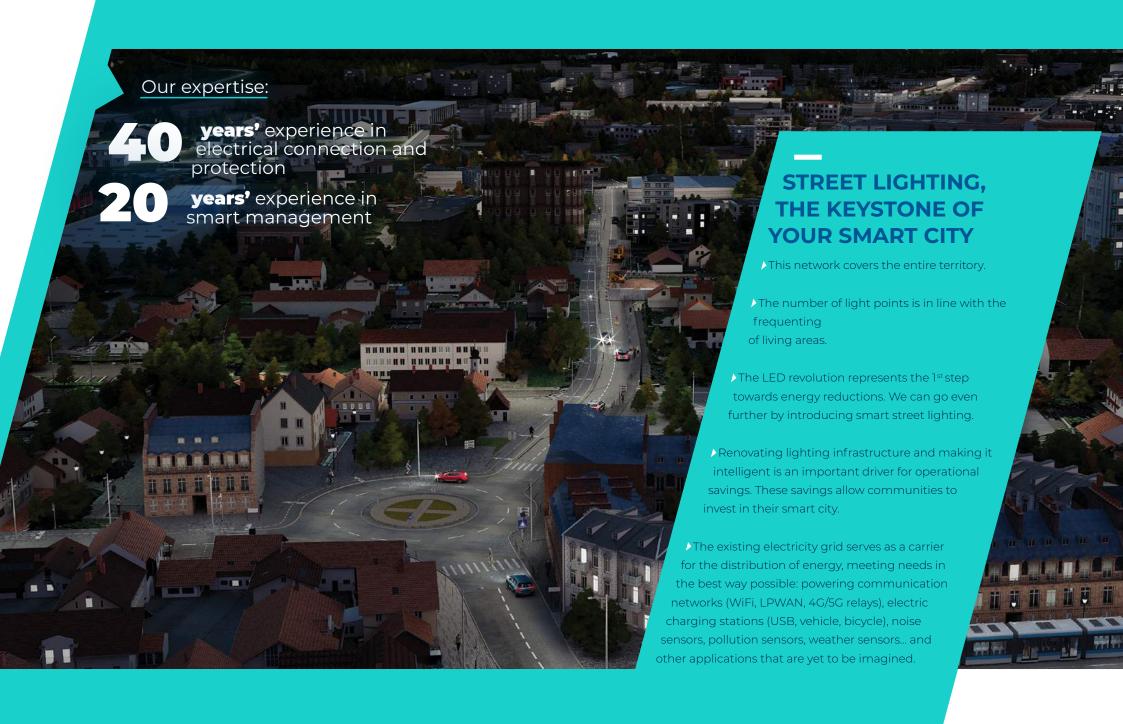
- Either all cabinets or only few of them operate 24/7
- Intelligent management of public lighting can easily evolve into 24-hour intelligent management of street lighting and associated third-party services

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



points and third-party

services

TNX24, A COMMUNICATING NODE

AND THE ASSOCIATED TRX RELAY NODE

To third-party service Third-party service

measurement

· · · · · TNX24 state light

.....2 DALI

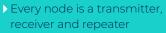
outputs

1 ON/OFF 230 V drycontact output, to power light points Entry 0–12 V

....To consumption measurement

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





- 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):

 $36 \times 85 \times 43 - 2$ modules/

- 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: ((

- \triangleright 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
- Departing voltage: 230 VAC
- **○** Certification: **(€**



Control unit and PLC module



AVAILABLE FOR
4 M MASTS THANKS
TO THE CITYPAK,
THE JUNCTION BOX
THAT IS ENTIRELY
DEDICATED TO
INTELLIGENT STREET
LIGHTING.





CONNECTED
TECHNOLOGIES
FOR SMARTER
WATER &
ENERGY



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