

Why invest in Smart Streetlights?





Dimming streetlights with predefined schedule and smart sensors significantly cuts energy waste.



Predictive Maintenance

Proactive alerts / notifications for faults, alarms or outages optimise maintenance and substantially reduce operational costs.



Total Infrastructure Control

Connected streetlights enable remote monitoring, management and control of complete citywide infrastructure.



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Standardised interface and Open APIs support inter-connectivity with applications such as traffic lights, security systems, etc.



50% Lower Light Pollution

Dimming streetlights during offpeak hours or through motion sensors significantly cuts light pollution.



Improved Public Safety

Right light and right place and right time enhances citizens' sense of safety.



Why invest in Smart Streetlights?





Fine-tuning lighting levels on needbasis dramatically reduces carbon emissions.



Protect Flora and Fauna

Autonomous dimming during offpeak hours lower lighting pollution and benefits local flora and fauna.



Benefits from Day One

Unlike other smart city solutions, deploying smart lighting deliver benefits from day one!

Who are we?

Specialist in Smart Outdoor Lighting



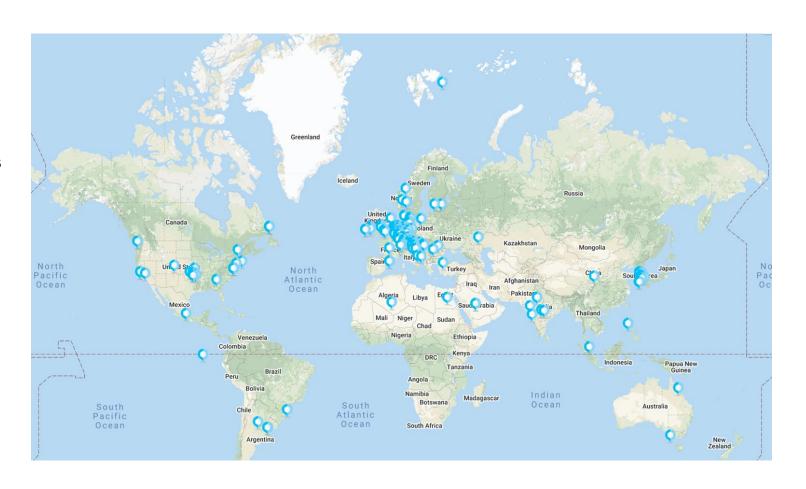
We enable cities to take full control of their Lighting Infrastructure based on Open Standards

Global presence: 100k+ connected streetlights, 650+ projects

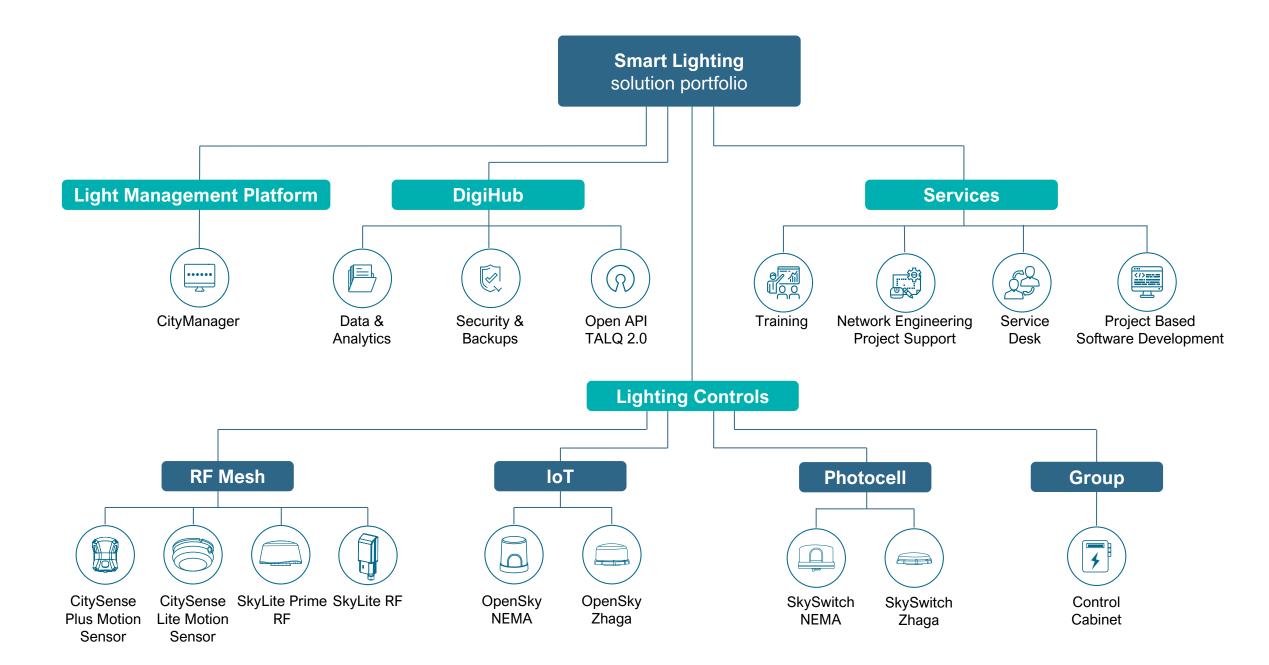
Monitored by CityManager and supported by our Service Desk

Selected Projects

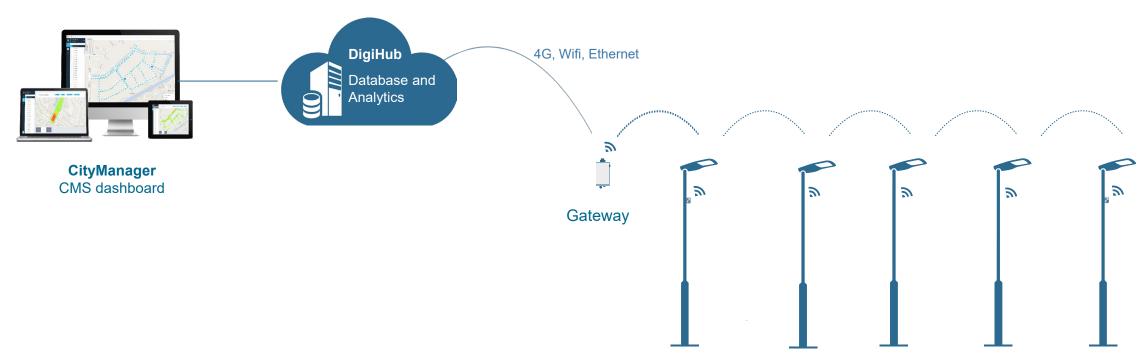
- Dortmund (DE) 25.000 smart streetlights
- Düren (DE) 5.000 smart streetlights
- Dutch Railways (NL) 10.250 smart streetlights
- Island of Texel (NL) 3.420 smart streetlights
- Helmond (NL) 8.500 smart streetlights
- Seoul (KR) 2.500 smart streetlights
- Busan (KR) 1.500 smart streetlights
- Bangladesh 4.300 smart streetlights







Smart Lighting with secure Wireless mesh network



Wireless Smart Lighting

- 2,4 GHz network, 250 kbps
- · High bandwidth, low latency
- · Real-time RF Mesh network
- High security 128 AES encryption
- Light-on-demand (140 km/h) when paired with motion sensors

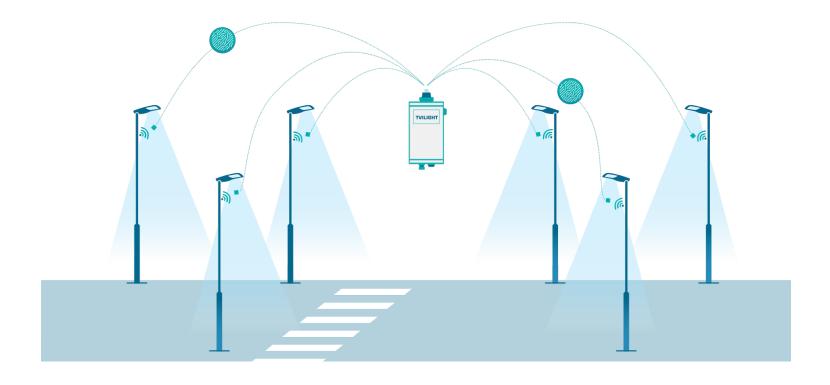


Smart Street Light Controller Zhaga RF Mesh



- Remotely monitor, manage and control citywide streetlights
- Pole-mounting allows installation on any kind of luminaire
- Uses self-forming, self-healing industry standard RF mesh network

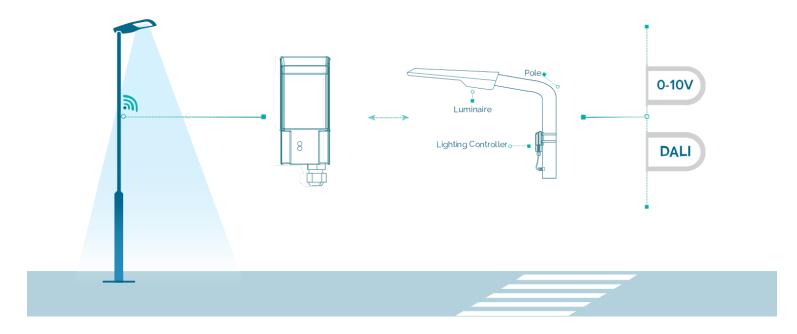
Secure Wireless Mesh Network



Secure communication over wireless network

- Self-forming and self-healing network
- Real-time communication
- Automatic Gateway connection
- Suitable for small and large areas alike
- IEEE regulated high encryption

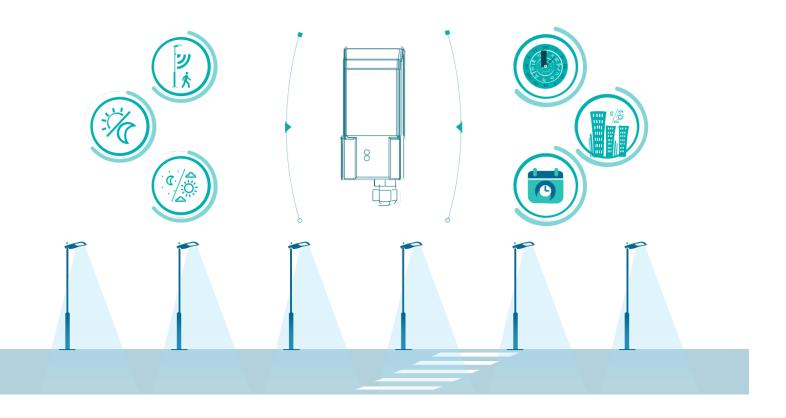
Universal Luminaire Compatibility



Makes any street light smart

- Suitable for existing fixtures conventional and contemporary alike
- Suitable for HPS, LPS and LED
- Works without NEMA or Zhaga receptacle
- Supports 0-10V and DALI

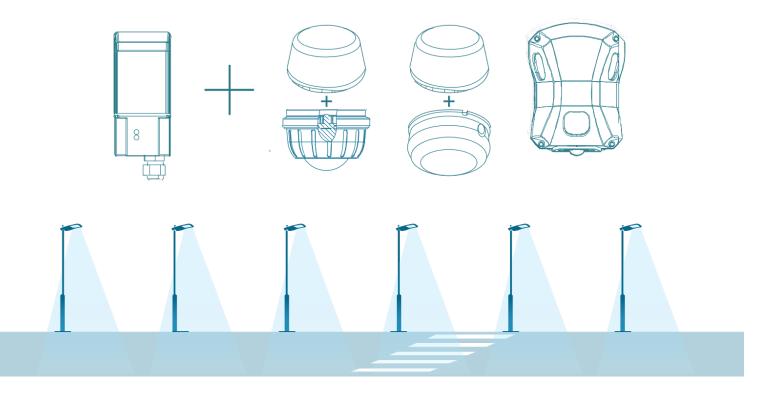
Finer control over Dimming & Switching



Regulate light levels as situation demands

- Time-based Light Scene
- Adaptive Lighting (Motion Sensor)
- AstroClock (Astronomical Clock)
- Calendar-based Schedules
- Autonomous
- Emergency (HiLight App)
- Central ALS (Photocells in City)

Supports On-Demand Adaptive Lighting



Wirelessly connects with motion sensors

- SkyLite can automatically receive messages when motion sensors are present in the same network. For example, CitySense/ CitySense Lite
- Motion sensors improve public safety perception
- Real-time communication over wireless mesh network enables realtime neighbour trigger / follow light

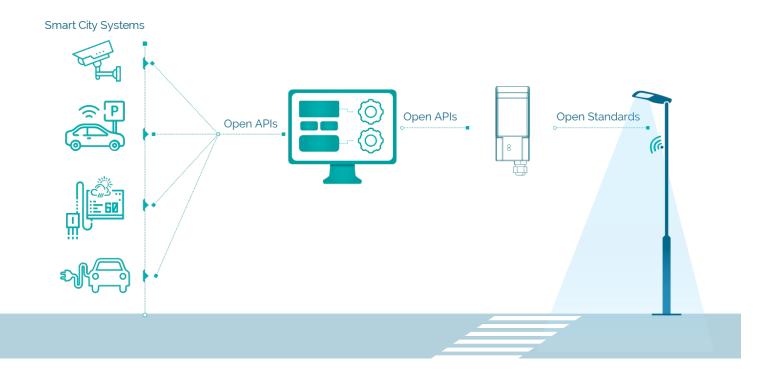
Higher Savings – Lower Investment



Light-on-demand through smart combination

- A typical project does need a sensor on every pole
- A sensor can be mounted on every 3rd, 4th or 5th pole, while SkyLite inbetween these two
- This smart combination lowers the overall investment, while achieving a comparative high savings
- Case-in-Point: Sohar Port, Oman

Smart City Ready



Built on Open Standards & APIs

- Works with a range of IoT and Smart City systems
- Selected examples:
 - Cisco Kinetics
 - Siemens Atos
 - SixData luxData.light
 - Osram Lumldent

Features to improve day-to-day operations...



Full Remote Management

You can monitor and control street lights with SkyLite through our own software, CityManager, or any suitable third-party software.



Programmable

With CityManager or 3rd party light management software, easily create customized schedules for street lights. You have total control on when, where and how the lamps turn on.



Fail Proof

The smart controllers have inbuilt multilevel back-up system. In an unlikely case of a system failure, street lights will go back to their standard, non-adaptive operation mode.

Features to improve day-to-day operations...



Timely Notifications

Receive all updates
concerning your street lighting
infrastructure via email or
through our CityManager
software platform. It helps take
quick actions in case of
failures.



Inbuilt AstroClock

With battery backed inbuilt
AstroClock, SkyLite controller
can switch lamps on/off at
sunset/sunrise and adjust
on/off times seasonally,
eliminating the need of
conventional photocell.



Third-Party Compatibility

SkyLite allows easy connection of third-party products and software thanks to its open architecture.







Like it. Why not give it a try?

Want to learn more?

Need datasheet?

Visit: http://tvilight.com/skylite



We look forward to working with you!

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