



AGIL<sup>®</sup>  Light

# SMART STREET LIGHTING SOLUTION

 **ST Engineering**



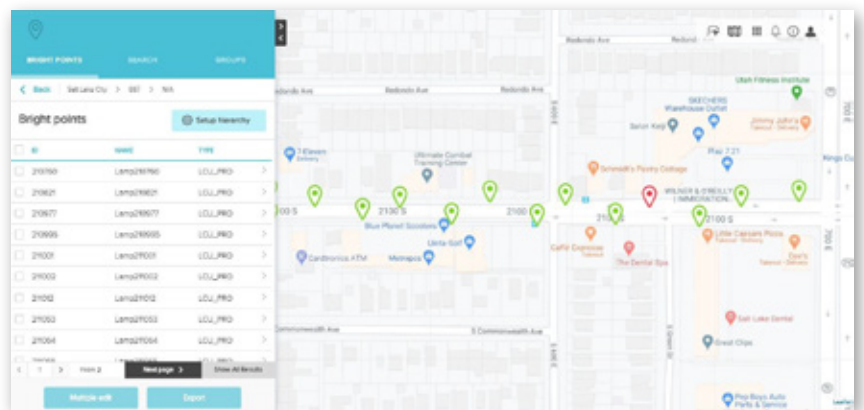
As cities move beyond the adoption of LED street lights to reduce energy consumption, there is a growing need to harness smart technologies with advanced analytics for more sustainable and cost-effective street light management.

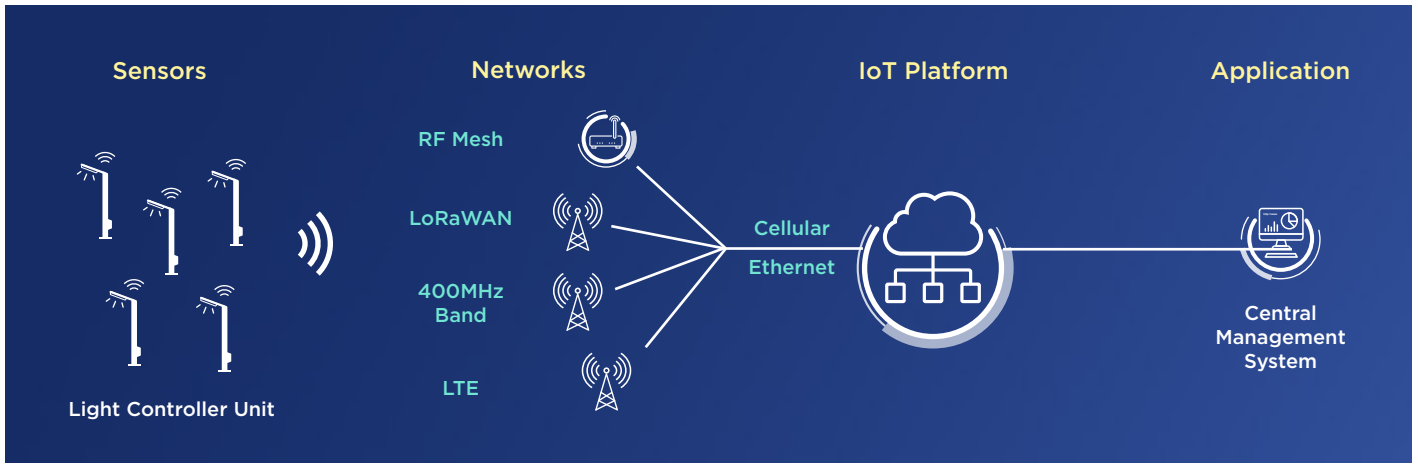
## Energy-Saving, Efficient and Secure

ST Engineering's AGIL® Smart Street Lighting Solution provides full awareness of street light performance supported by automated light management and smart sensors. Sensor data are collected and analysed for more responsive maintenance, resulting in reduced street light downtime and energy consumption. Street lights can also be transformed into a connected infrastructure to support various smart city applications.

## Key Benefits

- **Unified and versatile**
  - Centralised management of communications networks, sensors and devices (vendor-independent)
- **Reduce cost and improve energy savings**
  - Control and schedule individual or clusters of lightings (dimming, switching on/off) in response to varying environmental conditions
  - Integrate LUX sensors to optimise lighting efficiency
  - Reduce cost and time of implementation using standard industrial NEMA sockets
- **Enhance operational efficiency**
  - Provide real-time visibility of lighting status for optimised operation
  - Provide real-time and remote monitoring of lightings and send alert for fast mitigation and response to faults and power failure
- **Optimise maintenance**
  - Automatic fault alert and notification
  - Preventive and predictive maintenance
- **Enhance security**
  - Secure and robust end-to-end data encryption
- **Future-proof and scalable**
  - Support future add-ons of street lights and smart city applications
  - Provide connected infrastructure for smart city use cases





## Key Features



### Versatile Deployment

- Cloud-based and on-premise solution



### Communications

- Support multiple networks such as LoRa, LTE (4G), 400MHz band and RF mesh



### Informative Dashboard

- Smart map view of lighting status and locations



### Intelligent Control

- Automatic/manual modes to schedule, dim and switch on/off lightings
- Customise lighting schedule based on changing environmental conditions



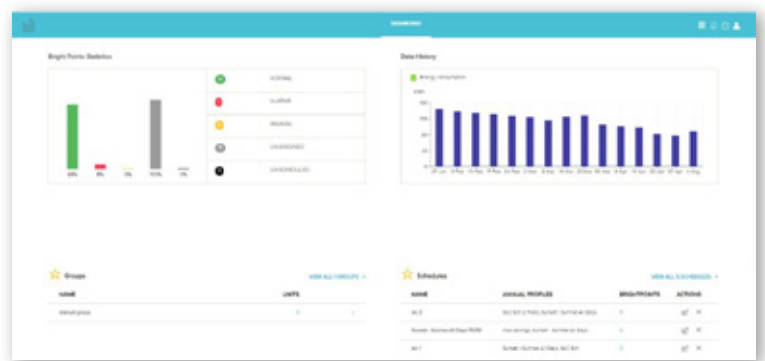
### Intelligent Monitoring

- Real-time visibility of energy consumption
- Monitor lamps' use-hours and leverage analytics to schedule pre-emptive maintenance, repair and replacement
- Monitor device to provide health overview of operations and fault alert
- Track inventory for enhanced asset management



### Security

- Secure AES 128 or 256 data encryption



## Key Solutions

### Software

- IoT Platform
- Central Management System

### Hardware

- Light Controller Unit
- Gateway



Light Controller Unit



## IoT Suite of Solutions

ST Engineering's suite of IoT solutions help smart cities to manage multiple smart city applications on a common platform. Its open architecture design leverages best of breed technologies and standards to facilitate data exchange and analytics, while generating valuable insights to improve quality of city services and enhance operational efficiency. Our solutions include

- AGIL IoT Platform
- AGIL Lighting Solution
- AGIL Street Lighting Solution
- AGIL Smart Lamp Post
- AGIL E-WATS Emergency Wireless Automatic Test System
- AGIL Lift Monitoring Solution
- AGIL Waste Monitoring Solution
- AGIL Water Advanced Metering Infrastructure (AMI)
- AGIL Smart Sensors

## Global Deployment

We have a proven track record in deploying more than 15 million wireless sensors and smart solutions that transform cities worldwide. Our global footprint covers various countries such as the UK, the US, Canada, France, New Zealand, Brazil and India.

Our solutions enhance city planning, improve service delivery, optimise efficiency and reduce operating costs essential for driving sustainable and liveable smart cities.

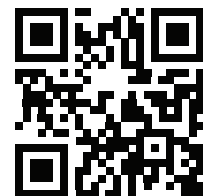
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