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⑤ignify

making brighter cities

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Telensa at a glance

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#1 in connected street lighting

2.0 million streetlights connected

400 cities

100+ networks built

15 years deployment experience

Headquarters
Cambridge, UK

Atlanta, US

Sydney

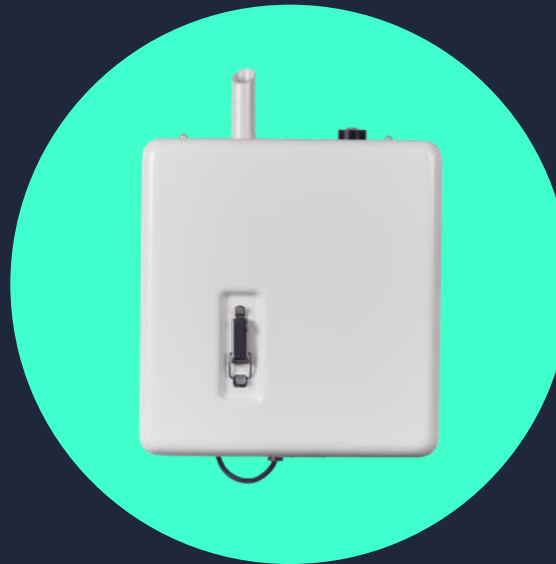# We design and manufacture the complete system

Sensor/control devices

Wide area network

Management application

Cleaner, smarter street lighting

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Smart lighting controls, along with LED lights, help reduce energy consumption, reduces carbon emissions, improves network management & reduces faults.
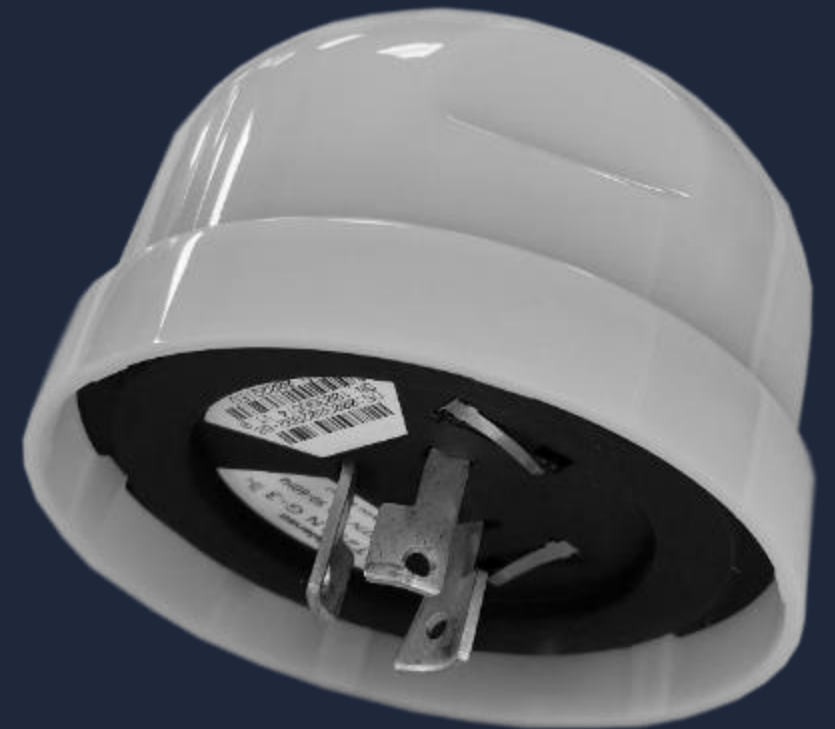
Adjustable output through programs or dynamic dimming

Smart detection and reporting of faults and unusual operation

Remote control and rich data collection

UNB network

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range 6 – 20 miles

Telensa UNB

- Radio coverage overlaps for resilience

- Long range

- Unlicensed spectrum is readily available

- System is inexpensive & fast to deploy

- Expand the network at any time

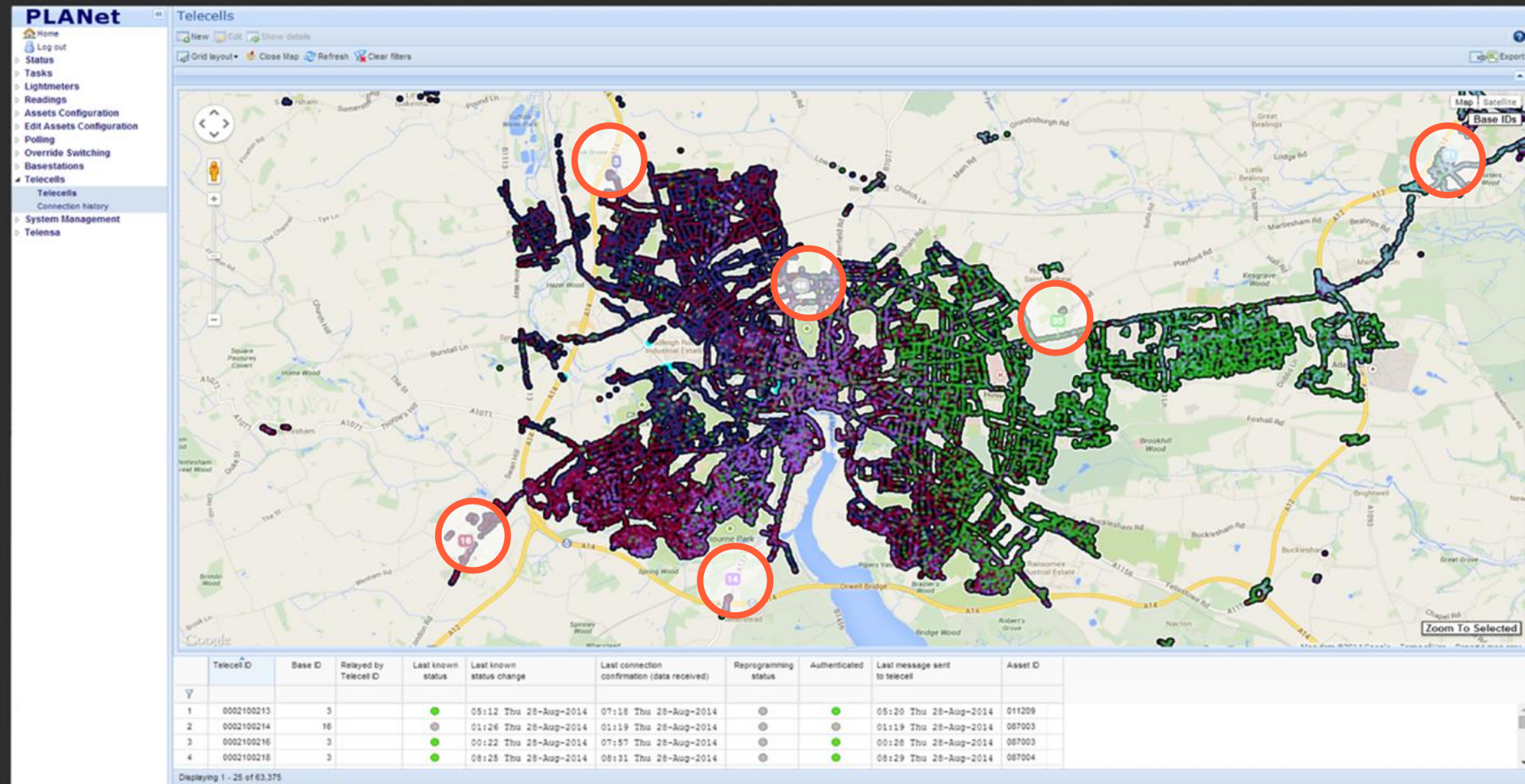- Up to 5,000 lights connect to a base station

- ETSI approved

Wide area – high capacity

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Case study:
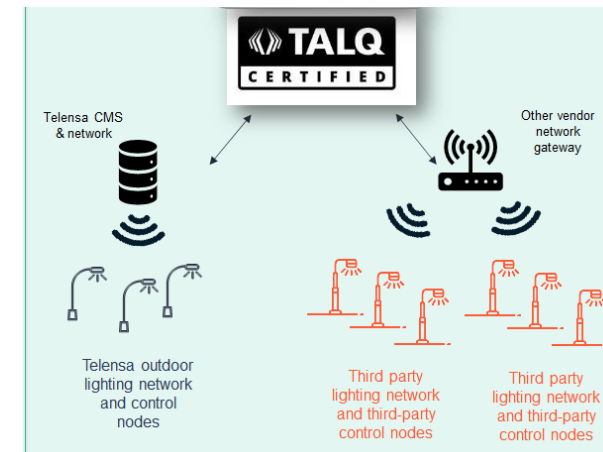18,400 streetlights
6 base stations

Base stations
combined,
connecting all
18,400 units

PLANet Central Management System (CMS)

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- **Sophisticated, adaptable programming** – allows alteration of lights based on time, special events, emergencies, other sensors, etc.

- **Complete control** – see 100 or 100,000 streetlights in a simple map-based or grid operation (large scale)

- **Detailed operational intelligence** – 24/7 fault reporting can reduce night patrols and provide fault diagnosis to improve first-time fix and better resource planning

- **Integration to other systems** – easy integration with asset and fault management systems using APIs and also metering and billing systems.

- **Flexible hosting options**

Lighting for every need

- Turn streetlights into a fully adaptive & dynamic asset

- Street lighting no longer needs to be one fits all

- Group by location or function

- Residential, crime hotspots, key traffic routes, business districts all with their own lighting policy

Working on behalf of citizens

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Improve safety & reduce crime

Mitigate light pollution for citizens and wildlife in accordance with Dark Skies Association guidelines, and de-carbonisation initiatives
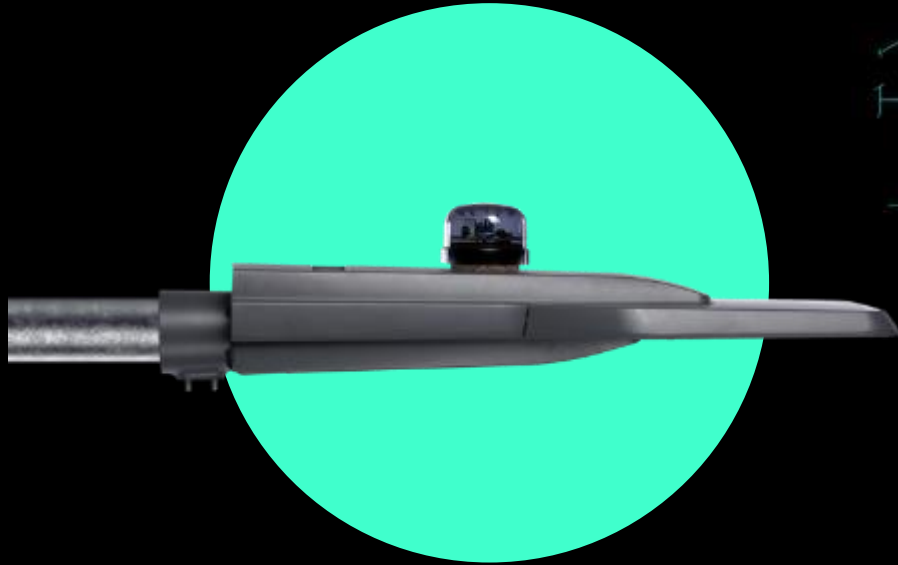
Proactive public service and fewer complaints

Both the *qualitative* and *quantitative* benefits of adaptive lighting should not be under-estimated in helping councils and municipalities to work collaboratively with their communities to develop, and enact, the vision for their local area
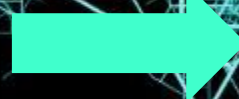
Future-proofing your smart city

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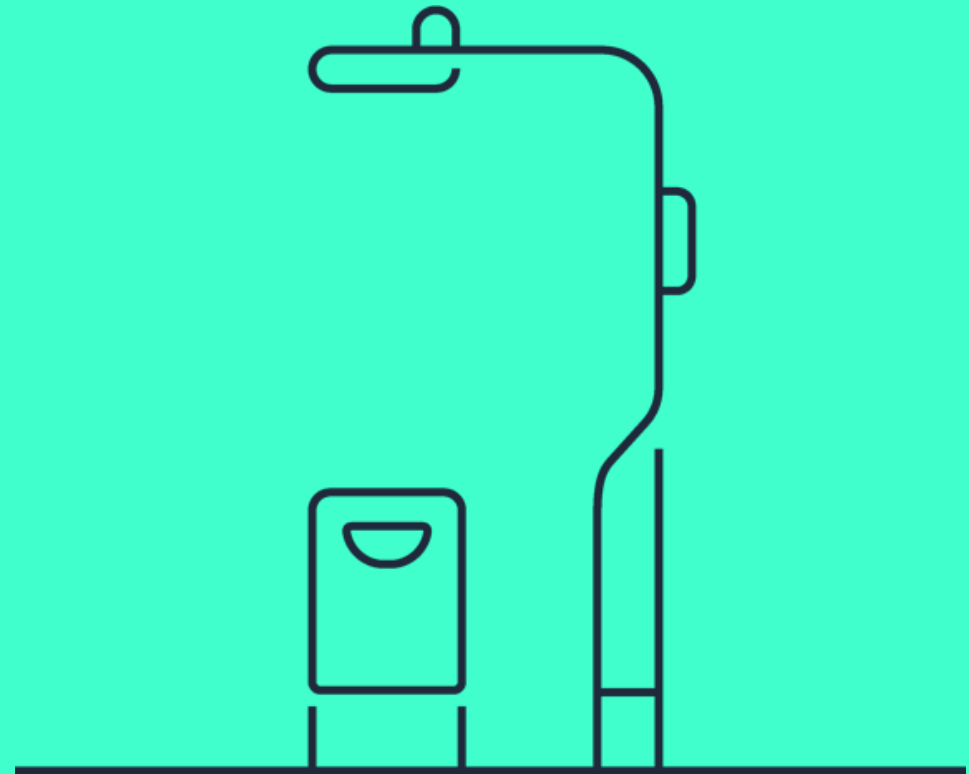Streetlight
infrastructure provides:

- Location provenance
- Power source
- Fixed data point
- And is out of reach

Lowers the barriers to deploying
subsequent smart city sensors

Smart street lighting - Summary

- Central control saves energy

- Improves service levels

- Lighting responds to citizen needs

- Enables you to adapt to future standards

- Achieves good lighting practice

- Responds to political targets & strategies

- Lowers the smart city entry barriers

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