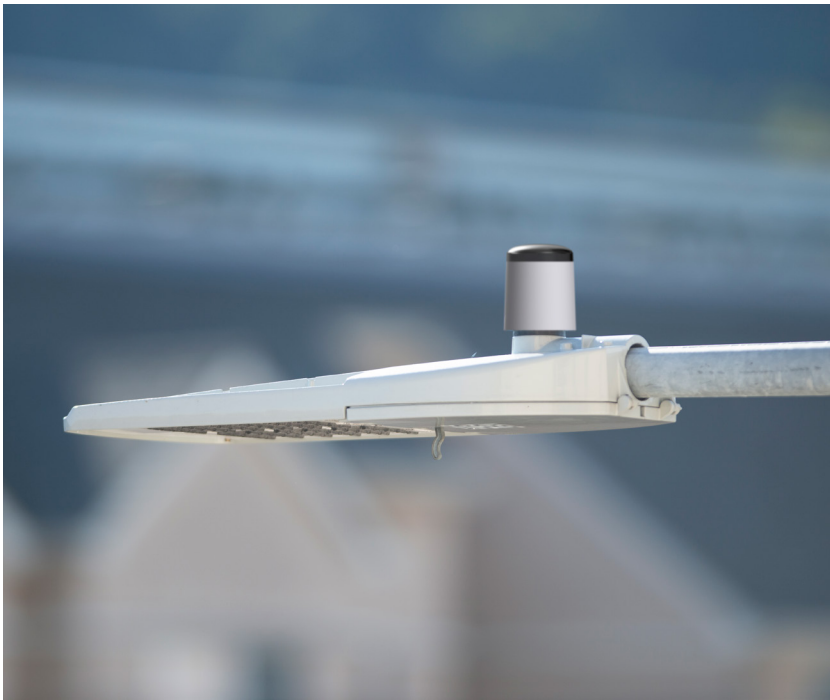


# Transform your existing lighting infrastructure into an IoT platform



Our smart lighting solution is a cost-effective, modular, foundational platform that can lead to significant energy savings and reduced maintenance costs.

**AT&T IoT Professional Services cover a full spectrum of lighting infrastructure enablers, including:**

- Building a business case and ROI for a smart lighting project
- Managing dynamic dimming schedules through advanced lighting control dashboard
- Generating operational insights for an optimal lighting infrastructure platform
- Designing and deploying IoT sensors, tools, and operational dashboards
- Using AT&T communications technology to extend an existing Wi-Fi footprint
- Integrating existing infrastructure into an IoT platform

**Your smart lighting infrastructure solution deployment can include:**

- LED lighting retrofit
- Advanced lighting controls – dimming/on/off
- Utility grade energy metering
- Tilt and vibration sensors
- Location-based services
- Municipal Wi-Fi
- Edge processing modules
- 3rd party sensors integration
  - Air-quality sensors
  - Existing cameras

**Potential benefits of a smart lighting infrastructure solution include:**

- Rapid deployment with LTE
- Reduced energy consumption and CO<sup>2</sup> emissions through LED retrofit
- Flexibility and further energy savings through dimming and scheduling
- Safer roads through increased visibility
- Operational agility and actionable insights through near real-time controls
- Decrease in maintenance costs



### Did you know:

- 1/3 of roads globally are still lit by technology from the 1960s<sup>1</sup>
- Conversion to LED can save a city 40-60% in electricity costs<sup>2,3,4</sup>
- LED luminaire life span can reduce maintenance costs by 88%<sup>1</sup>

By adding advanced lighting controls, you can increase your total cost savings by up to 85%<sup>1</sup>. Installing the smart lighting device into the light fixture's NEMA socket not only allows for light controls, but also monitors the health of the lighting infrastructure using the built-in tilt and vibration sensor. For example, you can provide a safer environment for first responders; or, the GPS and beacon inside the sensor can provide location-based services such as notifications or targeted advertising.

A utility-grade energy sensor inside measures the energy usage:

- At the street (line)
- At the pole (load)

All sensor data is processed at the edge and sent to the cloud where a robust portal displays insights.

The solution utilizes the AT&T cellular network and secure cloud connections in each IoT device transforming your lighting network into an IoT platform. With an optional Wi-Fi module, AT&T's smart lighting solution can extend your existing Wi-Fi footprint outdoors or to a nearby park. Whether it is connecting existing cameras and sensors or deploying new ones, we can provide a holistic solution to meet your needs.

Interested in how AT&T Professional Services can transform your lighting network into a platform for growth? Contact an AT&T Representative at 1-877-265-2118.

To learn more about AT&T IoT Professional Services visit: [att.com/iotproservices](http://att.com/iotproservices)

<sup>1</sup> Based on a 253 lifespan ratio of LED compared to HPS (high pressure sodium) and a per bulb change maintenance cost of \$131 = 87.5%.

<sup>2</sup> Northeast Group (40%). Based on global deployments of LED lighting.

<sup>3</sup> <https://www.echelon.com/assets/blt339a50e1c88306c2/Navigant%20Research-Echelon%20Smart%20Street%20Lighting%20White%20Paper%20-%20Full%20Report.pdf> (50%). Based on global deployments of LED lighting.

<sup>4</sup> <https://www.gsma.com/iot/wp-content/uploads/2017/03/Smart-Street-Lighting-Case-study-webv1.pdf>. Based on global deployments of LED lighting.

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