

Products

- **Lighting audit**
- **Remote monitoring and control**

Services

About Cosmiqo

Litesense® Specifications

- Collects 50 readings a second
- 100% message delivery over disruptive networks
- Post-processes >700 data points per second
- 27% message compression rate to save on bandwidth
- Transport Layer Security for data encryption

Operational Benefits

- 50% manpower savings from automated data collection
- 100% manpower savings from automated data validation
- 75% manpower savings from systemisation of routine support tasks

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Lighting Audit with Litesense®

The principal purpose of street lighting is to produce quick, accurate and comfortable visibility at night. These qualities of visibility may safeguard, facilitate and encourage vehicular and pedestrian traffic. When good visibility is provided through lighting, efficient night use can be made of the large investments in roadways and motor vehicles. Thus, the proper use of street lighting as an operative tool provides economic and social benefits to the public.

Proper street lighting reduces night accidents, facilitates traffic flow, aids police protection and enhances sense of personal security.

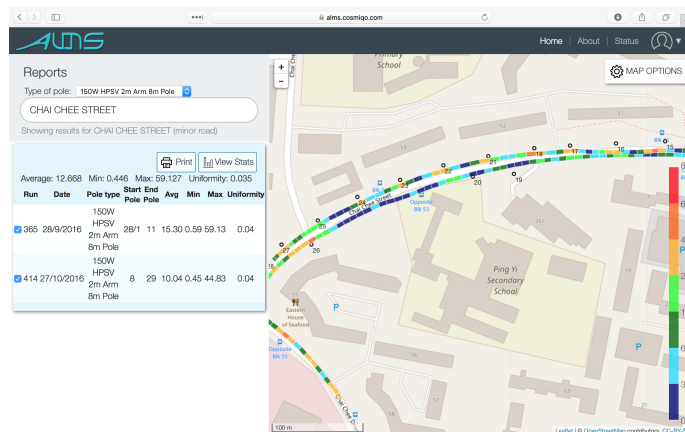


Figure 1. Lamp identification and intensity mapping

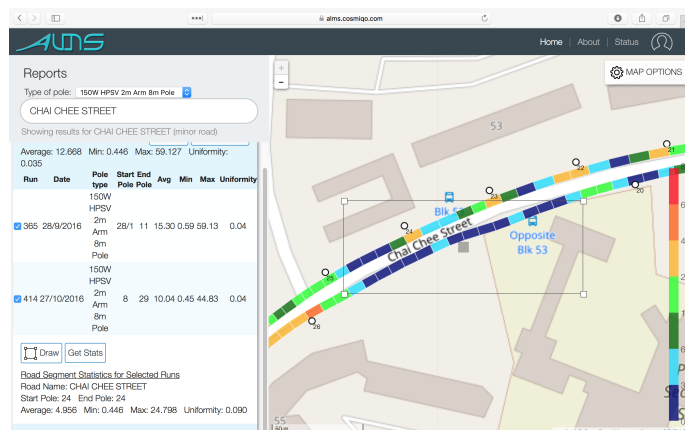


Figure 2. Geospatial selection for area of interest

Litesense won two innovation awards and ensures that roadway lighting complies with the *Recommended Practice for Roadway Lighting (ANSI/IES RP-8-14)* by analysing the uniformity of roadway lighting for different road categories.

Generated insights will aid in the management of roadway lighting by recommending improvements to areas of concern and facilitate optimal maintenance schedules to address luminaire degradation.

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System Features

- Control all your devices from a single, mobile-friendly, interface
- Alert and send notifications to a wide variety of platforms
- Set up advanced rules to control devices
- Data storage and real-time analytics
- Track the state of all your devices

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Remote Monitoring and Control System (RMCS)

To the world of industrial automation, remote monitoring and control is a norm. The proliferation of the Internet-of-Things (IoT), smart platforms and smart devices, however, has resulted in many industries benefiting from such technologies in which wireless networks and devices are used to unlock and tap into exponential value as a result of lower costs, simpler implementation and integration of the latest technologies.

The potential benefits of IoT opens up new monetization opportunities and creates a central point of discoverability.

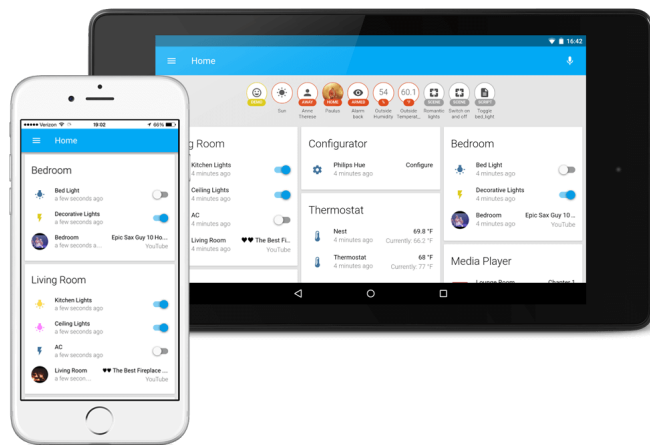


Figure 3. RMCS for smart homes



Figure 4. Real-time visualization of environmental sensor data

IoT is marking a real impact with the digitization of machines, vehicles, and other elements of the physical world especially with the ease of implementing remote monitoring and control systems.

RMCS is an IoT platform that integrates several open-source technologies. It enables remote monitoring and control for applications such as environmental monitoring, smart farming, smart buildings, smart homes and many more.

Services

Cosmiqo can assist you in the following ways:

- Develop *advanced analytics strategies* to gain a competitive advantage
- Deploy *advanced analytics engines* for decision support to improve operational effectiveness and efficiency through innovative uses of data and analytics
- Build *sensing platforms* to unlock the value of the Internet-of-Things

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Expertise

- Operational analytics
- Converting data into actionable insights
- Design and implementation of performant analytics engines
- Integration of end-to-end sensing platforms
- Technological innovation

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About Cosmiqo

Cosmiqo specialises in operations management and leverages on technologies from sensing and analytics to design innovative solutions that simplify the decision making process.

As transdisciplinary technocrats with deep industry experience, we have built solutions that have pushed the boundaries of technology to advance operational productivity. In short, we take away 'mundane' from everyday routines so that you can focus on more impactful tasks.

Engineers at heart, Cosmiqo continues to value-create simply to make people smile more.

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