



Smart Wireless Lighting Control Solution

Future-proof your
lighting investment with
MeshSmart
wireless control
system



Background Information About Connected Lighting

The lighting market has been in a constant technological change over the past few decades. Although it seems like LED lights have been around for a long time, people agree that most lighting systems still utilize traditional lighting technology. Connected lighting system was introduced to bring intelligence and connectivity to lights, and companies and consumers have big faith in the potential of connected lighting systems, since they provide a smarter and efficient way to illuminate the dark streets, increase the attractiveness of the city, and provide a well lit atmosphere.

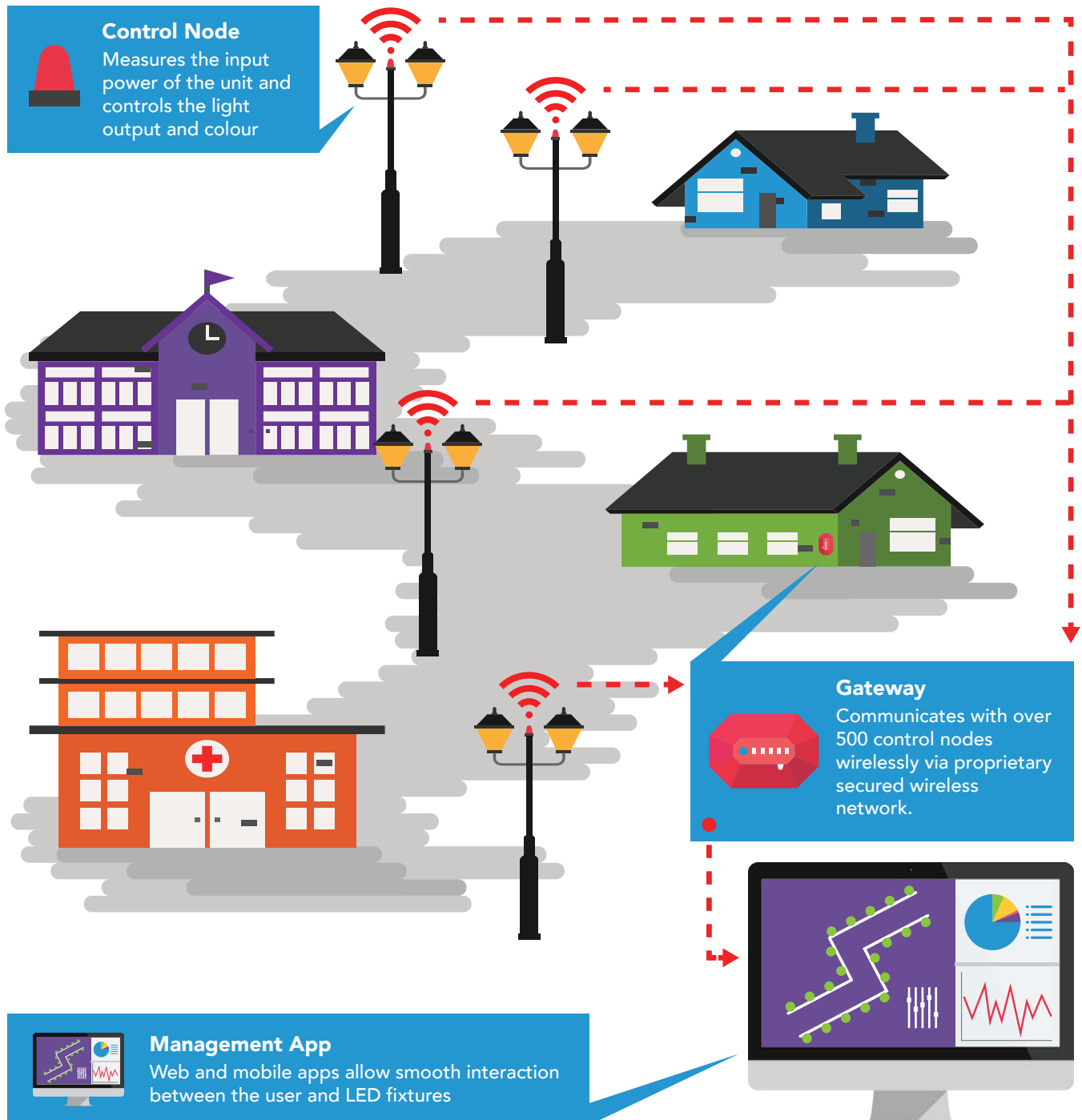
Challenges Facing Area Lighting

While we embrace the many benefits that connected lighting systems bring to our lives, some basic hurdles must be taken into considerations before we can fully adopt this brilliant new system into the lighting market. The first and perhaps the biggest one is platform convergence. On the LED side, most companies don't have standards that are well entrenched, which affect the adoption process of connected lighting systems. Other challenges including cost, operational complexity and quality of performance are also barriers that prevent everyone from being able to quickly adopt connected lighting systems.

What is MeshSmart?

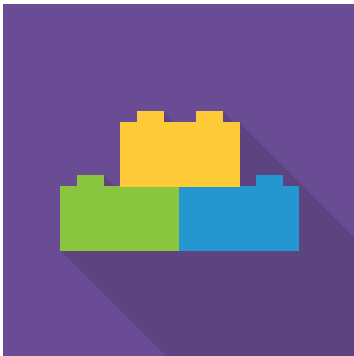
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MeshSmart technology allows you to control your lights from the web or a mobile central management system. Remote control and monitor of all the light fixtures in your environment - no matter how big or small. It even works with wireless control devices for easy retrofitting and implementation.





FUTURE PROOF Design



Flexibility

MeshSmart offers flexible control system that enables parking lots, parks, schools and other lighting application to adapt to all types of conditions and situations. In addition, data is constantly harvested to provide users a clear understanding of lighting usage. By making the proper adjustments, MeshSmart can optimize energy efficiency and cost savings.



Sustainability

By combining MeshSmart lighting management software with LED luminaires, energy usage is reduced by upwards of 70% and CO2 emissions is significantly lowered. This is a great opportunity to make your lighting solution more attractive, dynamic and environmental friendly while saving money.



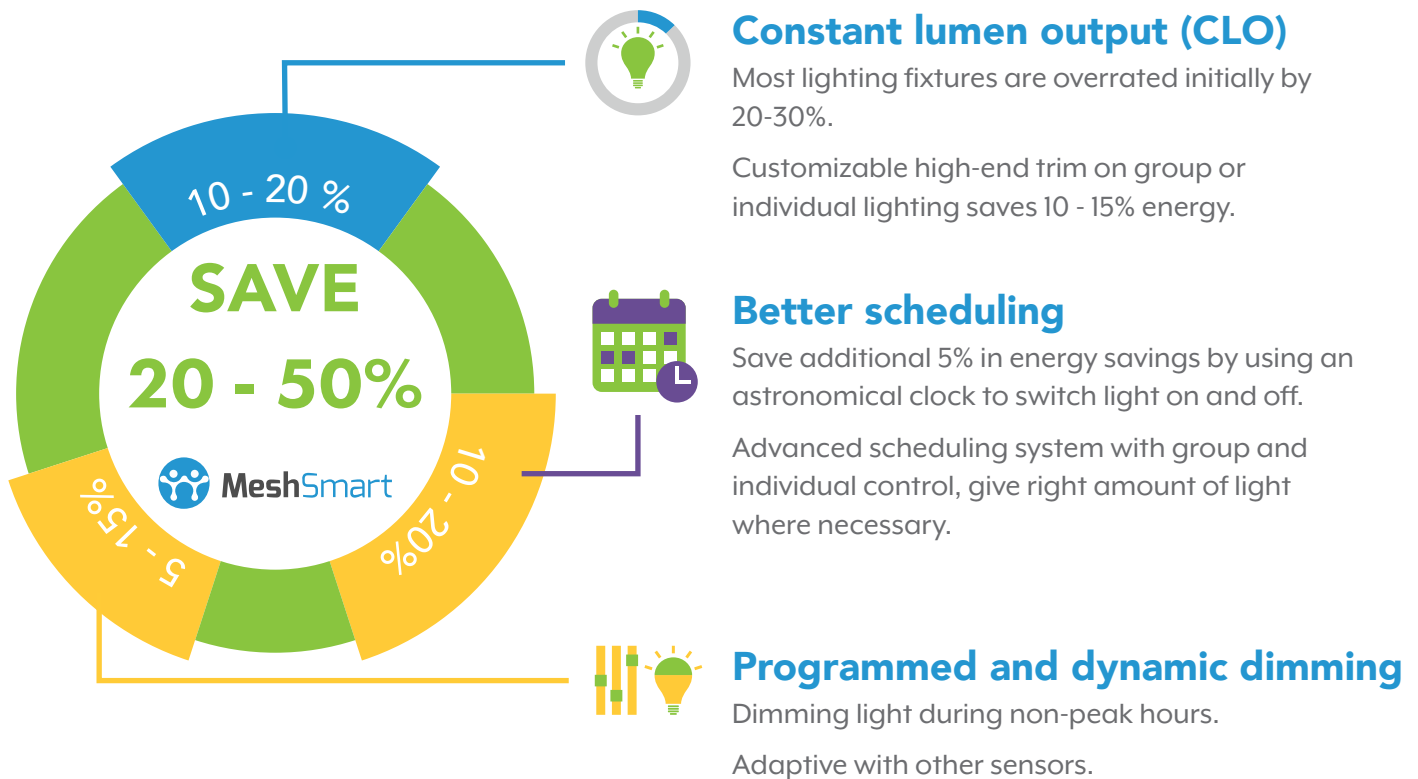
Responsibility

MeshSmart is lean, efficient and helps you take control of your lighting infrastructure - a very visible indication to people that management is making good decisions and using their money wisely.

ENERGY Saving

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By building clever lighting profiles with MeshSmart lighting management systems, you can save an extra 20%-50% energy in addition to energy-efficient lighting sources such as LEDs. With connected lighting, users are able to adjust light levels based on the time of the day. This create a sense of comfort and ease for the citizens as they travel around throughout the day.



OPERATIONAL Saving

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With well designed, reliable and user-friendly software solution, MeshSmart lets you manage your lighting systems dynamically, interactively, and flexibly. The biggest benefit is that you can save up to 90% in operational cost. The built-in system has a very effective self diagnostic function, whether it's a broken light bulb, a disconnected electric cord, or a software error, the system will detect the problem and let you know right away. Thus, it greatly saves maintenance costs because a physical inspection is unnecessary; the system is able to diagnose itself.

Save 90% on operation



Time - saving



Fast Identification

Eco - friendly



Reduce Costs





DESIGN Principles



Flexibility

Meshsmart lighting systems are extremely flexible. It is capable of monitoring and managing unlimited number of lighting assets, and has the ability to add new assets over time without having to take the system offline. In addition, there's no risk of centralized failure, as each individual light communicates independently with Meshsmart system. Whether you want to control single, grouped or all light points together, Meshsmart systems can be used whichever way you want.



Open

The Meshsmart lighting control systems works with variety of fixtures from different manufacturers, LED or non-LED, there are no restrictions to limit them from operating with the system. The need for any proprietary networks is ruled out as Meshsmart uses standard web services to connect to the city IT infrastructures, and it's easy to integrate our system with your existing management systems with our public APIs.



Secure

Data protection is a top priority in modern digital world. Meshsmart employs hi-tech security measures to safeguard your data. Technologies such as end-to-end encryption and two factor authentication ensure absolute security of your data. It's the same level of security for online banking and investment banking. So all the data transmission happens privately to keep all the stored data safe.

Case Study

Stafford Mall



The flexibility of **grouping** the lighting **&**
advanced scheduling system gives:

enough lighting for the area for stores which have longer business hours, and dim to lower lighting output for other parts of the mall to save power. The system at the mall also has the ability to reconfigure the security light to give the right amount of lighting during the night, when the mall becomes noticeably more populated, the light will grow stronger, and the light will dim when it becomes quiet. The system turns on the light on the roadway to the back entrance of the mall at 3am, this is when early workers come to work, and the lights provide a safe feeling and atmosphere for these workers. The property management company instantly knows when there is an issue, since the lights will change accordingly. Overall, the system saves about 35% energy usage.

Case Study

When it comes to schools, safety of students is always the top priority. With good lighting systems, students will feel a lot safer. They are adaptive at dimming the light fixtures so they always give the right amount of light whenever and wherever on the campus. Their flexible scheduling system also allow lights to be managed very efficiently, since the system saves light when the school is out, and provides enough light when there is an event going on. Overall, the lighting system saves about 50% energy usage.

N. Smithfield High School and Elementary School



Oxford Town Center was able to fully integrate MeshSmart lighting control systems to their lighting management interface and deploy the new system in just one day. Despite the necessity to connect the system to 47 other lighting fixtures. The process was quick and easy. With better the scheduling and intelligent lighting system, the management of the light is much more efficient and a lot easier, since they can easily track the data and monitor activities for the lights.

