



# enlighted™

A Siemens Company

## Enlighted Transforms Office Buildings

Enlighted digitizes commercial real estate and creates Brilliant Buildings™ that transform the office work experience, provide insights to optimize use of real estate, and lower operating costs.

## Beyond the Smart Office

Traditional smart office solutions focused on efficiency gains in building operations. These first generation smart workplaces were designed to primarily achieve cost reductions, and in that they have been quite successful. This infrastructure now represents a foundation on which more transformative solutions can be deployed.

### Beyond Building Efficiency

Once operating savings are achieved, we can focus on the everyday experience of office work for employees, facilities executives, and real estate managers. This has led to the realization that there is more to smart buildings than just buildings.

The smarts of a building are not limited just to optimizing the building's equipment and infrastructure. Rather, a higher-order of intelligence is in improving the experience of the people and the performance of the processes in the building.

Any opportunity to improve the human experience of work while increasing occupant and real estate productivity, creates orders of magnitude more value than improving operational efficiency.

The Enlightened IoT platform goes beyond building efficiency and delivers the next-generation intelligent office.



## The Brilliant Office



Enlighted uses the power of sensors, tags and cloud-based applications to make office buildings brilliant. The Enlighted Office delivers an unparalleled employee experience while improving real estate utilization. It yields dramatic advantages compared to traditional smart office technologies:

### Optimized for Comfort

The Enlighted Brilliant Office is optimized for security, comfort, and convenience. The building recognizes employees from the moment they arrive, and helps find an optimal workspace. Employees can interact with their work environment to adjust light and temperature conditions as needed.

### Designed for Sharing

The Enlighted IoT platform makes finding and booking spaces and equipment easy. Using Bluetooth-based asset tracking and real-time dashboards, employees can quickly find available workspaces, conference or huddle rooms, and any equipment needed for productive work.

### Streamlined for Collaboration

Employees use wayfinding, badging, and other location technologies to easily find a colleague, a collaborative workspace, or any equipment needed for productive teamwork.

### Digitized for Analytics

Enlighted's lighting-based IoT sensors digitize the office by gathering a rich and continuous stream of data from every inch of space. This dense data creates powerful insights and analytics including space utilization analytics for real estate optimization, motion trails for intelligent maintenance and cleaning, meeting metrics to gauge group productivity, and more.

### Paid for by Energy Savings

The Enlighted IoT platform generates lighting energy savings of up to 90% and HVAC energy savings of 35+%. These energy cost savings help pay for the IoT platform and associated installation as well as meet the organization's sustainability objectives.

# How Enlighted Transforms the Office



The Enlighted Brilliant Office provides building occupants with a collaborative and productive workplace, while building owners and operators gain operating efficiencies, and data-driven real estate management.

## Activity-based Working

The Enlighted IoT platform makes Activity-based Working practical by helping employees quickly find a desk, office, conference room, collaborative workspace, phone booth or any other space that meets their exact requirements.

## Collaborative Workspace Use

Employees use occupancy-based dashboards to optimize collaboration. Employees can discover occupancy levels in a break room before inviting a colleague to meet, or check the availability of a favorite conference room before booking a meeting.

## Wayfinding

Wayfinding applications allow people to find resources and each other quickly. This supports daily work needs, and the office cultural rituals that make work socially rewarding.

## Staying Connected

Location-awareness makes a range of new communication services possible in the office. Like social “collisions”, improved intra and cross-team collaboration, and new messaging capabilities that allow every employee in the office to stay connected to the pulse of the business.

## Safety and Security

The Brilliant Office uses smart location services to keep people and equipment safe, and secure. Equipment is unlikely to be lost or stolen, and the smart badging features ensure that every visitor is logged and concierged. In the case of an emergency, the system can locate missing people, and help employees to safely and quickly exit the building.

## How the Enlighted IoT Platform Works



Enlighted sensors are installed in each lighting fixture in a building.



The Enlighted IoT platform consists of Bluetooth LE tags, a dense network of sensors, and cloud-based data and analytics that are accessible from a variety of computing devices.

### The World's Most Advanced Sensor

Enlighted sensors are installed in — and powered by — each lighting fixture in a building. Each sensor possesses temperature, light, heat, motion-sensing, and bluetooth beacon capabilities. Additional sensors are installed on desks for desk-level occupancy sensing.

### Bluetooth Tags

The Enlighted IoT platform uses physical Bluetooth LE tags to locate equipment, and visitor or staff badges. The system also uses virtual tags to locate Bluetooth-enabled mobile devices like smart phones or tablets.

### Dense Sensor Grid

Enlighted deploys a smart sensor into each light fixture in a building. Because lights are everywhere, this creates a dense and regular grid of coverage for locating Bluetooth LE tagged items anywhere within an office.

### Robust and Scalable Wireless Network

The Enlighted IoT platform's robust and scalable wireless mesh network is capable of managing over 18,000 sensors per building.

### Cloud-Based Data and Apps

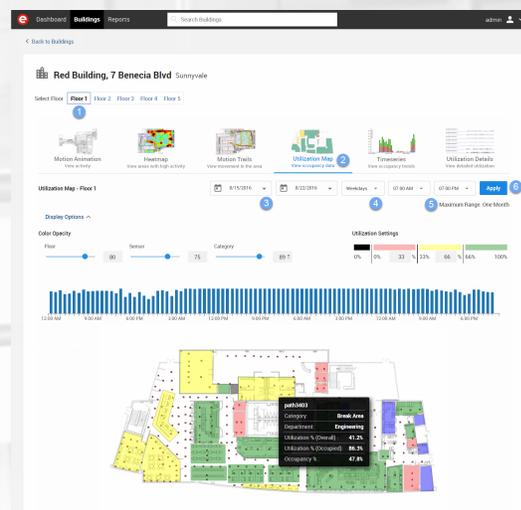
All sensor data is stored in a central data repository where it is accessed by advanced software applications to deliver detailed insights into office operations.

## Credible facts for real estate planning

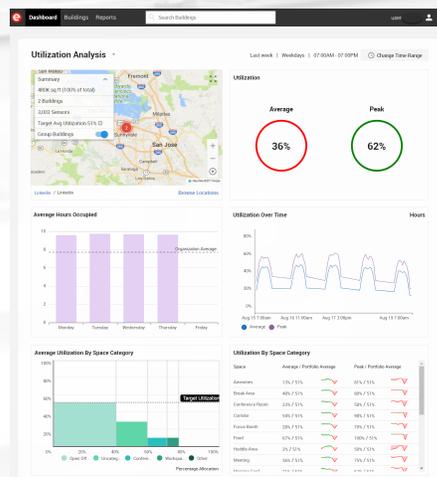
Enlighted's dense, ubiquitous sensor network possesses advanced motion tracking and occupancy detection capabilities.

Real estate managers use real-time motion, occupancy, and space utilization data to see how any space is being used during any specific time period. It's like having a 24/7 bed-check producing irrefutable data about use of space.

This data-driven examination of CRE usage leads to improved space planning, better return on real estate capital investments, improved energy efficiency, optimized employee workflows, and more.



Space utilization analytics provide insights using data collected 24/7 across the building



Detailed utilization metrics inform better space planning decisions

# Energy Efficient Office Lighting and HVAC Control

The Enlighted IoT platform's dense, ubiquitous sensor network also possesses advanced lighting control and HVAC optimization features for offices:

## Advanced Lighting Control

- Improve overall light quality with LED and sensor light fixtures
- Increase lighting energy savings up to 90% and lighting maintenance costs up to 25%
- Task tuning, occupancy data and daylight harvesting increase savings
- Ashrae 90.1 and Title 24 Compliant

## Heating, Ventilation and Air Conditioning Control

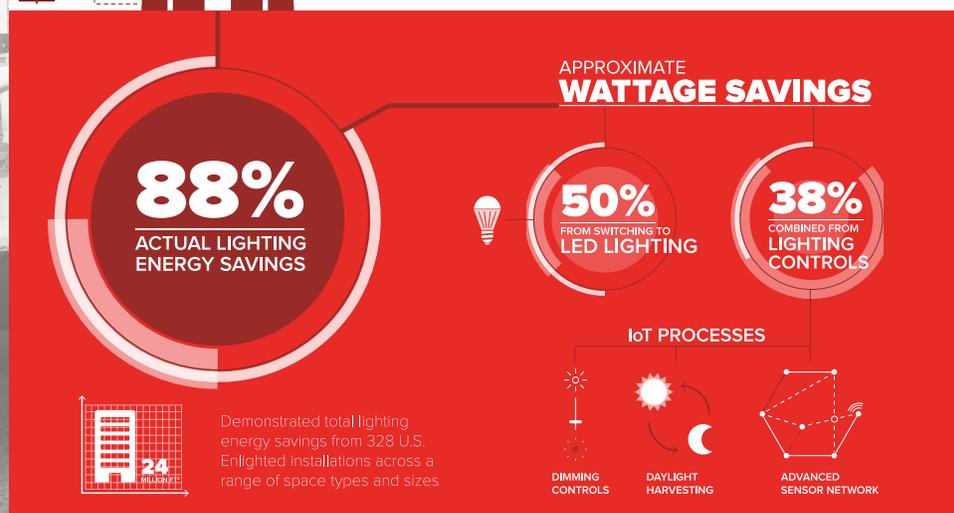
- Dynamically optimize heating, air conditioning and air flow
- Customize time schedules by building zones
- Rich reporting and monitoring via Building Management System
- Reduce HVAC energy use

## Innovative Financing

GEO is a revolutionary financing model that enables offices to upgrade their facilities without capital spending, obtaining a lease or exposing themselves to risk. It's the fastest way to deploy Enlighted's sensor network and real-time location services with an LED upgrade across your entire portfolio, and the fastest way to start saving.



## Energy Savings Pave the Way for Broad Application of IoT in Commercial Buildings



# About Enlighted

Enlighted digitizes commercial real estate to create Brilliant Buildings™ that give visibility into use of space and location of people & things that improves occupant experience and operational efficiency. The infrastructure pays for itself through lighting energy savings of up to 90%.

Enlighted's dense sensor network of one sensor per light fixture and ceiling-mounted positioning also capture the industry's most robust data. This powers Enlighted's solutions for real-time location services, building space management, occupancy-based HVAC, lighting control, and more.

## Enlighted Customers

The Enlighted IoT platform is installed in more than 175 million square feet of real estate worldwide. Enlighted works with top organizations like AT&T, Google, Apple, Intel, JP Morgan Chase, Uber and more.

Technology	Financial Services	Healthcare

## Recent Awards

“Top Project of the Year Award”

- Environmental Leader  
Product & Project Awards

“Winner of Supplier Sustainability Award”

- AT&T

“Top 10 Innovative Companies”

- Lux Research

“Top 100 Global Winner”

- Global Cleantech

“America's Top 100”

- Red Herring

“Business Environment Award Winner”

- Acterra

“100 Most Promising Big Data Solution Providers”

- CIO Review



## Experience It Live

The best way to experience the Enlighted system is to see it live in a working office. Visit [www.enlightedinc.com/contact-us](http://www.enlightedinc.com/contact-us) to arrange a live demo.