Sensyon
IoT Accelerated

The Smart Campus.
Better for Everyone.

Improve Efficiencies While Delivering
a Connected Experience

From the Internet of Things (IoT) to the Intelligence of Things

Sensyon Smart Campus enables you to better   manage your campus ecosystem and   unlock the full potential of your connected   IoT devices so that you can:

- **Improve Operational Efficiencies** – Simplify and automate day-to-day management tasks to achieve long-term efficiency improvements and significant cost reduction.

- **Make Smarter, Faster Decisions** – Get actionable insights so you can make intelligent and informed decisions faster using real-time data streams, comprehensive dashboards, incident reports and prescriptive actions.

- **Provide Intuitive Experiences for Stakeholders** – Using our human-centered design methodology, Sensyon   Smart Campus delivers an intuitive and   seamless experience across a full range   of apps and services – regardless of   devices and data sources.

- **Improve Safety** – Identify and address potential issues quickly before they escalate using context-aware incident reporting, predictive analytics and contextual alerts.

- **Secure your Enterprise** – Ensure the highest levels of security at all times with the platform's 256-bit AES encryption along with built-in user identification and authorization.

- **Achieve Faster ROI** – Most organizations achieve return on investment within the first year of operation.

Whether it's a small campus, a mid-size enterprise or a large city, modern spaces are already using sensors and devices to monitor everything from lights and parking to air quality and waste management. Unfortunately, not all systems are integrated seamlessly, making it difficult to obtain a clear view of current events and conditions across the spectrum of solutions. What's more, despite access to mountains of reported data, extracting actionable intelligence and insights for more informed decision making still remains a challenge for stakeholders.

Fortunately, there's Sensyon SmartSpaces™.

Trusted by Qualcomm® to be the foundation of its Smart Cities Accelerator Program, the Sensyon SmartSpaces Platform breaks down silos – by integrating and consolidating data from IoT devices and applications you already have – into one seamless interface. The result: complete visibility of what is happening across your entire network of connected devices and sensors.

In addition to receiving instant alerts and notifications about issues that matter, you can drill down through the layers of data and focus on solving problems using analytics and historic trends. You'll be able to make informed and intelligent decisions that not only improve operational efficiencies, but also enhance the quality of life – for employees, workers, residents and citizens. As the platform learns and evolves, it becomes capable of taking decisions on its own, based on rules, policies and outcomes defined by stakeholders, eventually making the vision of self-managed spaces a reality.
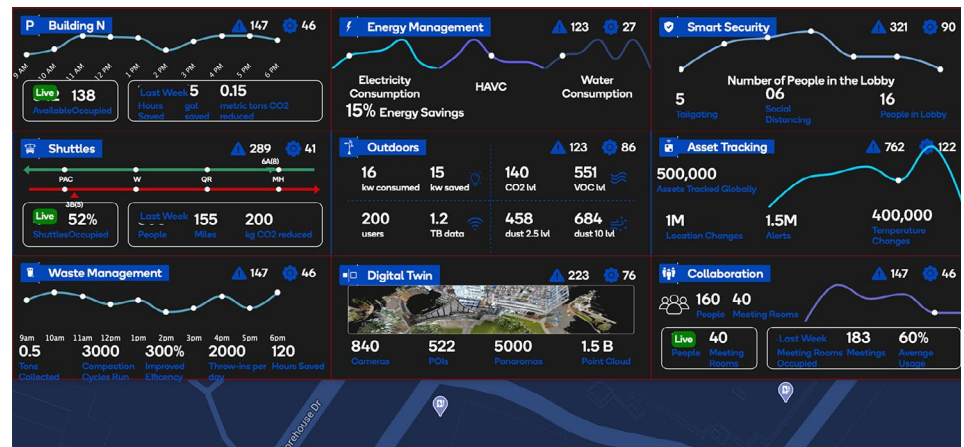
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The Next Generation AI-Enabled Campus Experience

Optimize the use of campus assets. Help make the air cleaner. Make public transportation safer. Let your car find the best parking spot. Even see through walls. Sensyon Smart Campus™ makes it all possible across multiple types of campus environments with its flexible and scalable AI and analytics-driven platform. Here are just a few examples of how you can make your business campus smarter and more connected:

- **Command and Control Center for Communities and Businesses** – In partnership with Qualcomm Technologies and by leveraging its existing Smart Cities network, Sensyon SmartSpaces is being deployed as a plug and play Smart Campus as a Service (SCaaS) solution. Diverse offerings from multiple IoT device vendors are integrated into the Sensyon SmartSpaces ecosystem to provide end-to-end visibility and management across cameras, street lights, parking, building energy management, asset tracking, air quality sensors, waste management and more.
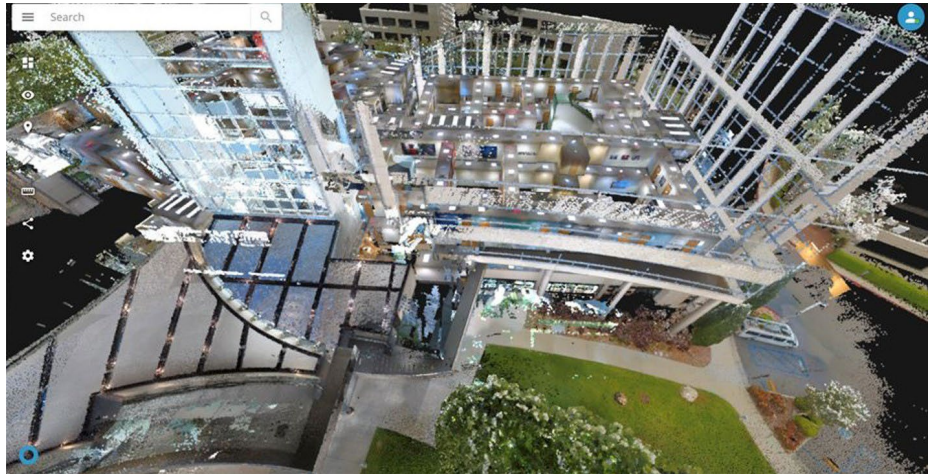
The Sensyon Smart Campus Command and Control Center brings all of these integrated smart systems together in one central place and provides a holistic view to help administrators manage a city or campus more efficiently. As a result, campuses, communities, and businesses can unlock the management potential and efficiencies promised by the widespread deployment of IoT devices – and improve return on investment on the assets they already have by making them smarter.

Gain a complete view of all systems from Sensyon's Command and Control Center

In addition, because efficient management requires people in the field all across the campus, Sensyon also provides administrators with a secure mobile app with access to all of the features, alerts, notifications, and analytics available in the Command and Control Center. Sensyon also developed a mobile app for employees and other users to help them stay informed of changes in transit services, optimized travel recommendations during special events, and other information for their convenience and safety.

- **Digital Twin** – Sensyon Smart Campus is the first and only SmartSpaces solution to feature a light detection and ranging (LiDAR) based 3D digital twin – with the capability to create a real digital replica of a campus, the exterior and interior of its building structures, as well as surrounding public transportation assets, lighting, and more, to make campus management more efficient. Working with its strategic partner NavVis, Sensyon can create a 3D digital twin map of a 600,000 ft. area in just four hours.

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Advanced digital twin technology optimizes campus management

Instead of searching through hundreds of blueprints and plans, simply click on the digital twin 3D interactive map on the Sensyon Command and Control screen and view the location or asset to be managed. Digital twin technology lets you lets you virtually walk through a building and gives you step-by-step directions with highly accurate GPS and elevation coordinates to the exact area you need to view. What's more, digital twin lets you "see through walls" and zoom in to also view building assets, such as furniture, equipment, electric, plumbing, HVAC systems, and more. As a result, you'll have a 360-degree view and more comprehensive understanding of what is happening in the city or campus – complete, real-time information you need to take the right action in emergencies and daily operations alike.

- **Asset Tracking** – More than tracking and alerting only on the location of campus assets, the Sensyon SmartSpaces AI platform provides advanced, real-time analytics on asset usage in terms of energy and resource consumption. As a result, campuses can optimize the utilization and improve the efficiency of all types of assets – anything from HVAC systems and utility trucks, to shuttle buses on a business campus, to city trash and recycling   trucks and receptacles, and other specialized equipment used across cities. For example, the monitoring of city trucks can pay off in improved gas utilization and reduced gas costs, and reduced CO_2 emissions for better air quality – all benefits that enable cities to improve return on investment in IoT technology.

  Sensyon Asset Tracking also includes temperature alerts on perishable items such as medical vaccines and motion alerts whenever an asset is being moved without authorization.

- **Smart Waste Management** – Smart Waste Management starts with Qualcomm sensors placed on campus or city trash compactors and recycling bins to enable waste level tracking at each one. Those tracking analytics are used to determine optimized daily routes for trucks to service only those bins that are full and require pick-up. Truck drivers use the Sensyon mobile app to get their schedule and optimized route for the day, while administrators can view and track the entire process on the Sensyon Command and Control screen.

  As a result, waste management departments can reduce gas costs by about 30%,   save time and increase driver productivity, reduce CO_2 effect on the environment, and optimize trash pick-up schedules for the most efficient use of their equipment assets and human resources.

You'll be able to make informed and intelligent decisions that not only improve operational efficiencies, but also enhance the quality of life.

- **Smart Transportation** – Commuter safety and transportation efficiencies to better serve the needs of users are the goals of the smart transportation capabilities of Sensyon Smart Campus. Qualcomm uses the Sensyon solution to manage shuttle service between the 35 buildings its corporate campus. It not only tracks shuttle location, but also provides analytics on the number of people riding the shuttle, shuttle usage, and how many people are waiting at the stops and for how long. Sensyo's analytics help Qualcomm to more efficiently plan shuttle usage and routes, resulting in less fuel consumption, lower CO_2 impact on the environment, and optimized use of the shuttle service. Employees can also use a shuttle app developed by Sensyon to get directions to a shuttle stop.

  Sensyon also tracks and monitors shuttle driver behavior as a facet of improving commuter safely. The smart transportation capability tracks speed, occurrences of high speed turns, harsh braking, and other unsafe driving habits. A camera onboard the shuttle will send   an alert to the Sensyon Command and Control screen if the driver is using their cellphone or appears to be fatigued or distracted while driving. Improvements in driver behavior can result in reduced insurance costs and improved commuter safety. Other commuter safety features include an SOS emergency callbox that connects to campus security guards or police, as well as a vandalism protection system that records video and sound, and alerts security to any criminal activity.

- **Smart Parking** – Using automated license plate recognition, Sensyon's smart parking capability lets participating employees drive up to the gate and enter the parking lot without showing an identification badge. The corresponding Sensyon app gives the driver directions to the most optimal open parking spot closest to the building where the employee works. Sensyon Smart Campus learns over time if an employee appears to have a favorite parking spot and will alert on whether that spot is available. In addition, the Find My Car feature always knows where the car is parked and provides walking directions to its location. Drivers can also virtually lock their car using the Sensyon app, which prevents a thief from driving the car out of the gated parking lot – the gate will not open as long as the car is locked via the Sensyon app. The Sensyon app will also alert if an unlocked car has been moved from the parking spot, so the owner can call security or police.

  Beyond the business campus, Sensyon Smart Parking brings these time saving, convenience, and safety benefits to customers of city and airport parking lots, as well as privately- owned lots. Sensyon Smart Parking can provide owners of private lots with historic usage analytics and real-time alerts on nearby events, such as concerts, to help them optimize parking lot usage and maximize profitability.

About Sensyon

Sensyon delivers a wide range of Internet of Things (IoT) solutions spanning buildings, stadiums, campuses, and even cities. The Sensyon SmartSpaces platform supports solutions for multiple markets, including manufacturing, hospital, agriculture, education, logistics, retail, travel, and construction. By integrating and consolidating data from IoT devices and applications, organizations can gain new insights to improve efficiencies while providing end-users with an engaging digital experience. Sensyon SmartSpaces is an award-winning IoT product suite with over 37 global awards for its IoT products, including Best Technology and Company Innovation of the Year. For more information, please visit www.sensyon.com .

For More Information

To learn more about Sensyon's Smart Campus solutions or arrange a product demonstration, please contact **+1 (301) 355 7760**, **hello@sensyon.com** or visit **www.sensyon.com**