Dashboard view of status of all environmental sensors to make more informed decision to enhance city management

Future-Proof: Scalable and IoT-Ready

WISX IoT Platform deployed for Smart Environment Monitoring is a highly adaptable and cusotmized platform. It easily integrates with other existing applications and services as an open protocol. The platform is capable of addressing city-wide challenges beyond environment monitoring. The stars connected WISX IoT ready infrastructure can be deployed as a shared network for various smart connected sensors and devices to deliver either city services (such as street light management and CCTV monitoring) and functionalities for various industry verticals (such as public safety and security, intelligent transport, etc.) to benefit its residents.

WISX IoT Suite of Solutions and Products

WISX IoT solution helps smart cities to manage multiple city services on a common platform. The platform leverages best of breed strategies and standards to facilitate data exchange and analysis as well as generate greater insights for proactive actions to be taken to improve efficiency of city services and operations.

Some of our WISX IoT solutions include

- WISX Smart Street Lighting
- WISX Smart Indoor Lighting
- WISX Smart Energy Resource Management
- WISX Smart Water Resource Management
- WISX Smart Environment Monitoring
- WISX Smart Waste Management
- WISX Smart Lift Monitoring

www.WISX.io

Global Track Record

We have a proven track record in deploying more than 15 million wireless sensors and smart solutions that power and transform cities worldwide. Our solutions help to improve street light management, city planning and operational efficiency, resulting in energy savings essential for sustainable and livable smart cities. Our global footprint covers various countries such as the UK, the US, Canada, France, New Zealand, Brazil and India.
Major environmental changes can have hazardous effects on cities and its residents. It is important to leverage smart technologies and Internet of Things (IoT) to continuously monitor, proactively manage and prudently control environmental factors to help city operators to respond quickly to changes in the environment, thus ensuring a comfortable, safe and livable city for its residents.

WISX Smart Environment Monitoring

WISX Smart Environment Monitoring System is designed to monitor and control environmental factors in real-time to manage and proactively control environmental factors to ensure a comfortable, safe and livable city for its residents. It is important to have hazardous effects on cities and its residents. It is important to leverage smart technologies and Internet of Things (IoT) to continuously monitor, proactively manage and prudently control environmental factors to help city operators to respond quickly to changes in the environment, thus ensuring a comfortable, safe and livable city for its residents.

WISX Smart Environment Monitoring System

- Provides advanced Sensor Interface Units (SIU) that are compatible with many third-party sensors
- Enhances Operational Efficiency
- Provides a continuous status of sensor performance
- Real-time monitoring and alert system to monitor different aspects of the environment
- Enables remote access to sensor performance through web-based application
- Optimizes Maintenance and Resource Management
- Automated fault alert notification to maintenance teams
- Preventive and predictive maintenance
- Enhances Security
- Secure and robust end-to-end data encryption
- Safety-Proof and Scalable
- Enables the seamless integration of smart city services and applications for sensors installed in various places (e.g., smart street lighting, utility monitoring, lift monitoring, public safety and security)

Features

- Real-time dashboard view with real-time readings and notifications
- Supports multiple communications networks
- Secure AES 128 or 256 data encryption
- Future-proof small chip solutions to provide suitable solutions for future needs
- Cloud-based maintenance and application
- Provides an optimal performance for your sensor

Benefits

- Users can access the system anytime and anywhere
- Diversifies sensors operational status to support troubleshooting, repair, maintenance activities, etc
- Users can deploy any communications network to meet their operational needs
- Prevents unauthorised interruption during operation
- Microchip costs less for future scale

Air-Quality Monitoring

- Real-time monitoring of PM2.5 level
- Real-time monitoring of CO level
- Real-time monitoring of NOx level
- Real-time monitoring of SOx level
- Online monitoring of O3 level (if applicable)
- Regulates air pollution in areas that exceed national levels
- Provides web-based advisory for outdoor activities
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Benefits

- Analyzes and predicts the level of air pollution
- Provides online systems for city operators to monitor and control environmental factors
- Enhances public safety
- Enables agencies and civil defense to make more informed decisions on the locations and positions of dwellings
- Improves public safety

Noise Pollution Monitoring

- Real-time noise level
- Real-time monitoring of noise level
- Provides real-time status of sensor readings
- Provides real-time status of sensor readings
- Supports multiple wireless technologies (e.g., LoRaWAN, NB-IoT, LTE-M, Cellular, Wi-Fi)

Benefits

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Water Management

- Plans cleaning schedule based on real-time condition
- Optimizes resource deployment based on toilet usage
- Reduces the cost of inventory (e.g., toilet paper, soap) with predictive planning
- Schedule cleaning based on less crowded period

Benefits

- Analyze the level and water level fluctuation
- Provides web-based advisory for outdoor activities
- Reduces the cost of inventory (e.g., toilet paper, soap) with predictive planning
- Schedule cleaning based on less crowded period

Street Level Monitoring

- Real-time monitoring of street level
- Analyzes web-based advisory for outdoor activities

Benefits

- Analyze the level of street level
- Provides web-based advisory for outdoor activities
- Reduces the cost of inventory (e.g., toilet paper, soap) with predictive planning
- Schedule cleaning based on less crowded period

Flood Level Monitoring

- Real-time monitoring of flood level
- Provides web-based advisory for outdoor activities

Benefits

- Analyze the level of flood level
- Provides web-based advisory for outdoor activities
- Reduces the cost of inventory (e.g., toilet paper, soap) with predictive planning
- Schedule cleaning based on less crowded period

Trash Management

- Plans cleaning schedule based on real-time condition
- Optimizes resource deployment based on toilet usage
- Reduces the cost of inventory (e.g., toilet paper, soap) with predictive planning
- Schedule cleaning based on less crowded period

Benefits

- Analyze the level of trash level
- Provides web-based advisory for outdoor activities
- Reduces the cost of inventory (e.g., toilet paper, soap) with predictive planning
- Schedule cleaning based on less crowded period

Rodent Detection and Capture

- Provides real-time location of rodent traps with both IoT and GPS
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- Provides real-time location of rodent traps with both IoT and GPS

Benefits

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

WISX IoT Platform

- Provides an ideal end-to-end smart city solution on a single platform
- Enables agencies and civil defense to make more informed decisions on the locations and positions of dwellings
- Supports multiple wireless technologies (e.g., LoRaWAN, NB-IoT, LTE-M, Cellular, Wi-Fi)

Benefits

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

NB-IoT

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

LoRaWAN

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Gateway

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

WISX Smart Environment Monitoring System

- Provides an ideal end-to-end smart city solution on a single platform
- Enables agencies and civil defense to make more informed decisions on the locations and positions of dwellings
- Supports multiple wireless technologies (e.g., LoRaWAN, NB-IoT, LTE-M, Cellular, Wi-Fi)

Benefits

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Wireless Sensor Network

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Application

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Internet of Things (IoT) Platform

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Data Analytics

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Weather Monitoring

- Provides estate builder optimal positioning of building
- Provides web-based advisory for outdoor activities
- Regulates air pollution in areas that exceed national levels
- Better prepared for preventative measures (air pollution and issue mask)
- Takes necessary action before rodent decomposes

Centralized Environment Monitoring (Air quality, noise pollution, street lighting, utilities monitoring, lift monitoring, public safety and security)