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Healthy Living Analytics

Leveraging technology to save and improve lives

CHALLENGE

Economic and population growth in cities around the world have resulted in large increases of vehicle use, industrial activities, and energy consumption, leading to pervasive urban air and noise pollution.

The World Health Organization cites that exposure to outdoor air pollution is responsible for killing approximately 4.2 million people per year, and that nine out of ten people breathe air that the WHO deems as highly polluted[1]

The U.S. Department of Transportation cites that congestion has been increasingly getting worse year-over-year in 85 of the largest metropolitan areas[2].

More than 28% of all greenhouse gas emissions come from transportation, and the transportation sector is the largest source of gas emissions in the United States[3]

Currently, most cities measure air pollution using a collection of large environmental monitoring stations. However, while these stations are accurate in measuring air quality data, their high cost often limits deployment and results in coverage gaps. In addition, these stations are static and may not capture isolated or localized pockets of harmful pollutants within a community.

SOLUTION

IntelliSite's SCaaS® for Healthy Living uses proprietary AI-enabled IoT to help community officials implement an alternative way to efficiently and cost-effectively monitor, measure, and manage pollution levels and other important environmental factors. IntelliSite provides officials the valuable insights they need for the development, management, and enforcement of methodologies designed to decrease pollutants, while also providing the community with real-time data on how best to manage a community's health and operations. Through IntelliSense® IoT sensors and cameras, IntelliSite enables communities to monitor and track:

CO_2 AIR QUALITY
(dust particle concentrations, pollution, carbon monoxide, etc.)

WATER DETECTION, LEVELS, AND QUALITY

NOISE POLLUTION

LUMINOSITY LEVELS

TEMPERATURE AND HUMIDITY

FUEL AND WATER TANK PRESSURE

AIR DIRECTION AND VELOCITY

ARCHITECTURAL DIAGRAM

IntelliSite's SCaaS® for Healthy Living can add any combination of IoT sensors to monitor desired outcomes; including monitoring air quality and CO_2 emissions in local parks.

THE MOST COMPLETE SOLUTION

Edge Sensors & Cameras

IoT Sensors

Cameras

Leverage existing camera infrastructure or install new cameras

Edge Computing

AI at the Edge
Edge compute Universal IoT + AI gateway (UIG)

AI at the MEC
Near edge Multi Access Edge Compute (MEC)

Intelligence

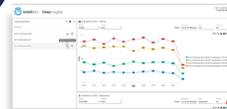IoT sensor data is processed and metadata sent to the visualization tool

Deep learning based AI software that provides with advanced video analytics and enriched metadata

Reporting

Video Management System

Visualization Dashboard

Rules Engine

Managed Services

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NOC

- 24/7 Realtime Event Response
- Enterprise management of all systems
- Health and wellness of the devices
- Remote Support and Maintenance

MAKING SMART COMMUNITIES AFFORDABLE

IntelliSite's unique offer of "Smart Community as a Service®" (SCaaS®) enables cities and municipalities to benefit from our technology with an affordable monthly fee. SCaaS® eliminates the initial capital expenditure and combines the cost of the all the solution components:

- Edge compute UIG® hardware
- Our innovative IntelliCore software suite
- IntelliCare 24/7 remote agent monitoring
- HD cameras
- IoT sensors

All-in-one simple price that's only a few hundred dollars per month provides a very low barrier to access cutting edge security technology powered by AI and IoT.

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