



Smart Community
Technology Solutions



Smart Community Solutions from SentiSYS

Imagine if you could make your community a better place by tapping the power of sensor-based smart networks.

Our job is to help communities realize the benefits of smart sensor networks. A community that is safer and healthier, more customer service friendly, more environmentally responsible, more attractive for businesses and residents, more prepared for adverse events, and financially stronger.

Smart solutions, commonly referred to as IoT or Internet of Things, combine the power of intelligent remote sensors, a secure and reliable network, and timely and actionable data. The goal of a smart solution should be to detect and capture information from your community that can be used to make a positive impact. SentiSYS helps local governments use smart solutions to solve or mitigate risks, fix problems, or simply create a better place to work and live.



No Longer Just for Big Cities

In the past, smart community technologies were often limited to just the biggest communities or private enterprises with big budgets. In addition, most devices historically were designed to address a single issue, leaving departments to individually manage deployments based on narrowly defined use-cases. Thankfully, times have changed and affordability and inter-operability are no longer barriers.

LoRaWAN is a wireless network designed for hosting smart sensors from a number of certified device manufacturers. Designed with sensor applications that do not require high-bandwidth in mind, LoRaWAN offers users a number of operating advantages. First, municipalities can run multiple types of sensors on a single network, from smart meters to smart parking. Secondly, unlike WiFi, broadband, or cellular networks, there is no competition for bandwidth from applications such as video or voice communications. Third, LoRaWAN networks require less capital for build-out than cellular networks, and thus, make it more economically feasible for a greater number of communities. Finally, these networks are low-powered, which is perfect for rugged, battery-powered devices that can be installed in harsh conditions and last for years without needing to be replaced.

Smart Solutions



Smart Water Meters

- Detect continual flow (potential leak)
- Reduce manual read and re-read activities
- Address theft/tamper
- Limit water waste
- More accurately bill customers



Smart Pipe Sensors

- Listen for leaks
- Triangulate leak location
- Recognize pressure patterns
- Evaluate remaining useful-life/replacement



Stormwater and Waste Water

- Identify overflow events
- Measure flow, velocity, and volume of rain and runoff
- Monitor water levels



Soil Moisture Monitoring

- Optimize irrigation
- Reduce water waste
- Improve land management

Smart Solutions



Smart Parking

- Real time inventory of public parking
- Reduce parking enforcement costs
- Monitor legal and illegal parking spaces
- Integrate with emerging parking applications



Building Management

- Identify and trend unusual energy consumption
- Pinpoint energy usage spikes and power fluctuations
- Monitor structural health
- Identify occupancy patterns
- Improve security and access controls



Asset Tracking

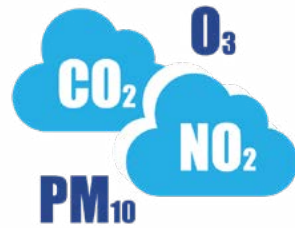
- Monitor location of vehicles and other high-value assets
- Optimize fleet maintenance
- Track unauthorized asset movement

Smart Solutions



Public Safety

- Remotely monitor building or event occupancies without on premise law enforcement
- Monitor traffic flows to improve transportation safety



Clean Air and Water

- Monitor for various air and water pollutants, odors, chemicals and noise levels
- Set real time alerts for threshold levels



Flood Warning

- Early warning alerts for flood conditions
- Identify precise locations in duress
- Improve response times
- Track water levels in urban and rural locations



Solid Waste Management

- Lower waste collection costs
- Route optimization based on waste fill levels
- Cleaner community
- Fewer complaints

A Trusted Partner

SenthiSYS offers municipalities a cost-efficient, low-risk, and trusted solution for enhancing community services through innovative smart sensor technologies. Our clients depend on our experienced team to help them plan, design, purchase, install, and maintain their smart community solutions from start to finish. Through our partnerships with device manufacturers, software providers, and wireless network operators, we offer a full-stack and single-platform solution that can be customized to meet the particular needs of any community.

Single Platform

Manage your sensors and data from a single platform for simplicity, cost-efficiency, and convenience.

We build solutions around a single LoRaWAN platform as the backbone for the network, and we provide clients with a single-sign on to manage all of their smart applications.

Benefits

- 24/7 access to real-time data
- Custom alerts
- Proactive monitoring of infrastructure, events, environment
- Single network with single sign-on software application
- Low capital expenditure
- Dependable network management provider
- Low maintenance costs
- Scalable and inter-operable
- Usable for commercial and residential applications
- No impact on cellular, WiFi or broadband networks
- Secure and encrypted



MeterSYS is a smart solutions consultant and systems integrator. SentiSYS is our brand of our end-to-end smart community solutions. We have been delivering smart infrastructure solutions since 2015, primarily in advanced metering solutions, and our expertise is providing our public clients with an end-to-end reliable and cost-efficient wireless sensor network solution. We have expertise in vendor evaluation, bidding and procurement, project management, installation, systems integration, change management, and data management analytics and services.

Headquarters

Caviness Building
703 West Johnson Street
Raleigh, NC 27603

West Region

333 University Avenue
Suite 200
Sacramento, CA, 95825

www.metersys.com

Tel: 844.881.8685

Fax: 336.790.5510

info@metersys.com