Building your

Smart City

with GeoRobotiX

Powered by
OpenSensorHub

Building your
Smart City

Leverage GeoRobotix to harness **real-time observations** in city decision making in order to better serve your citizens.

Use GeoRobotix to **overcome interoperability challenges** between your sensor systems, from many different vendors and different government agencies.

Integrate your Sensors, Things, and Robots with GeoRobotix to power your Smart City.

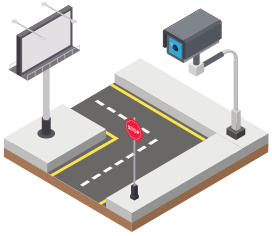
Through the power of GeoRobotix, **integrate the Sensors deployed across your operational environment with your GIS data, high resolution three dimensional (HR3D) terrain data** and all your municipal or regional systems to benefit citizens through better enabled public servants and decisionmakers.

Transform your sensors in to **location-enabled and geographically-aware** web accessible services with GeoRobotix.

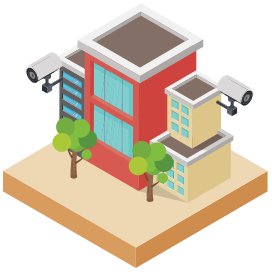
Let GeoRobotix provide a high availability, secure, interoperability backbone that enables **geographically accurate and precise analysis and operations.**

GeoRobotiX

Integrating
Sensors, Actuators & Processes

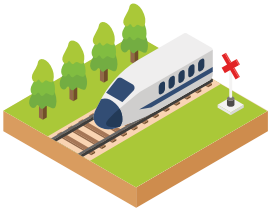


Cameras
Traffic cams, bodycams, vehicle cams, CCTV, facial recognition and other algorithms.



Building and infrastructure control systems
Access, security, indoor navigation beacons, fire control, power metering, structural integrity, corrosion, etc.

Weather
Temperature, pressure, humidity, precipitation, wind speed/direction, UV radiation, lightning strikes, etc.



Transportation
Transit status/location, traffic light controls, traffic cams, congestion sensing, road conditions, ride share tracking, license plate readers, fleet AVL, vehicle dispatch, pedestrian observation, etc.

First responders
Body cams, squad/team level networks, tactical sensors, health sensors (e.g, heart rate, body temp, respiration, O2 saturation, blood pressure), vehicle-mounted sensors, gunfire sensors, collision sensors, drones and man/machine teamed robots.

Environmental
Toxic gases, air quality, water quality, soil pollution, river gauges, buoys.

Power your
Smart City with
OpenSensorHub

Learn more at
www.opensensorhub.org

@opensensorhub

Getting started with GeoRobotix

Cloud Platform Subscription (SAAS)
Harness the GeoRobotix platform without bothering to own or manage your own Cloud computing resources. GeoRobotix provides various SaaS Cloud Subscription levels to allow you to securely leverage the power of your Sensors, Things, and Robots as location-enabled, geospatially-aware web accessible services immediately.

On-Premises/Self-Hosted Platform Subscription
Deploy the GeoRobotix platform on-premises or on your own Cloud computing resources. Whether on your own compute infrastructure, or in your leased commercial Cloud, we offer "OnPrem" SaaS Subscriptions that let you deploy the GeoRobotix platform and securely integrate it into your larger enterprise capabilities.

Expert Services
Beyond GeoRobotix platform subscriptions, and the support and maintenance services included therein, GeoRobotix offers world leading expertise to formulate and implement your next generation sensor and IoT vision. GeoRobotix offers strategies and decades of implementation know-how that you can harness to master the world around you.

FAQs

How to deploy?
Whether they know it or not, most cities have already gotten started deploying some of the sensors and control systems required to run a smarter city. Unfortunately, many of these sensors, actuators and processes are stovepiped and largely ignorant of the placement in your city's landscape. Legacy/heritage sensors can be integrated with OSH at the edge, or with an OSH gateway. Or, new sensors can be deployed.

How to secure?
A Smart City is only as smart as it is secure. There is no value in exposing the sensors and actuators (think control systems) in every city block as a cyber-security attack surface. As a city enables these "things" as location-enabled and geographically-aware web accessible services they must be secured with role based access that allows them to be dynamically recombined to meet evolving mission needs and crisis situations. OSH offers the fine grained security necessary to do that.

How to discover?
Once your Smart City becomes dense with a wide range of sensors and actuators (whether Sensors, Things, or Robots), visual discovery becomes less and less useful. Users (whether people or machines) will need to discover observations based on location, time, sensor/actuator type, observations thresholds, and more. OSH provides this discoverability for those seeking to navigate and manage the deluge of data from their Smart Cities, over time and space.

How to dispatch?
As exigencies demand, Smart Cities will require that resources be dispatched to any and every neighborhood to address all manner of circumstances. This requires that man, machines, and complicated constellations of resources work together across space and time, with humans and automated processes tasking and dispatching these resources according to defined logics, and with auditable records with provenance that offers geographic and temporal precision and accuracy. OSH offers a comprehensive architecture for dispatching/tasking across your Smart City.

How to administer/manage?
Smart Cities continually change and evolve, and new Sensors, Things and Robots will need to be actively administered/managed as they are added to the urban landscape. OSH offers a host of administrative tools for managing your Smart City, and leveraging these tools to support the public trust.

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