# Streamlining
# Transportation and Logistics

## with GeoRobotiX

Powered by
OpenSensorHub

# Streamlining
# Transportation and Logistics

Enhance transportation and logistics by providing real-time visibility and operational insights across roads, railways, ports, rivers, and air cargo networks.

Address challenges in managing intermodal freight, cargo containers, and vehicle fleets by integrating diverse sensors and tracking systems into a unified, interoperable GeoRobotix platform.

Empower logistics providers by connecting Sensors, Things, and Robots across transport hubs, warehouses, and transit routes, ensuring seamless operations and timely deliveries.
Fuse GIS data, live traffic feeds, and sensor outputs to optimize route planning, monitor infrastructure health, and prevent disruptions.

Transform transport and logistics networks into location-aware, web-accessible services, boosting efficiency and reducing operational risks.

GeoRobotix delivers a secure, scalable solution that supports global logistics, enhancing supply chain visibility, cargo tracking, and asset management.

# Integrating
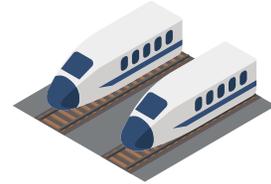# Sensors, Actuators and Processes

### Fleet and Vehicle Tracking
GPS/GNSS, vehicle telematics, automatic license plate readers (ALPR), fleet dispatch systems, fuel consumption monitors, and driver health sensors.

### Traffic and Roadway Monitoring
Traffic cameras, congestion sensors, toll readers, road surface condition monitors, weigh-in-motion (WIM) sensors, and automated incident detection systems.

### Railroad and Port Operations
Rail yard scanners, track integrity sensors, cargo container trackers, crane automation systems, and ship-to-shore logistics management.

### Air Cargo and Airport Logistics
Cargo scanners, runway condition monitors, air traffic sensors, baggage handling systems, and aircraft tracking.

### Supply Chain and Warehousing
RFID tags, pallet sensors, automated storage/retrieval systems, temperature monitors, and warehouse robotics.

### Infrastructure and Asset Management
Bridge integrity sensors, smart traffic lights, tunnel monitoring systems, bridge strike sensors, and real-time structural health monitoring.
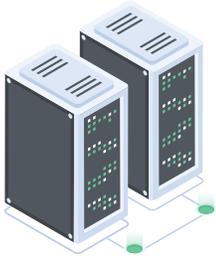
# Frequently Asked Questions

**How to deploy?**
GeoRobotix streamlines deployment across transportation networks by integrating with existing infrastructure and deploying new sensor arrays at critical transit points. OpenSensorHub (OSH) ensures seamless connectivity across diverse modes of transport.

**How to secure?**
Logistics data is vital for operational continuity. GeoRobotix protects transport and logistics networks through encrypted communications, role-based permissions, and robust cybersecurity protocols, ensuring end-to-end data integrity.

**How to discover?**
GeoRobotix simplifies data management by enabling users to discover and analyze sensor data based on location (space and time), vehicle type, cargo manifest, and transport route, ensuring effective oversight and timely interventions.

**How to dispatch?**
GeoRobotix enables dynamic dispatch of transport assets, optimizing fleet movement, redirecting in real-time, and coordinating intermodal transfers to ensure uninterrupted supply chain operations.

**How to administer/manage?**
With GeoRobotix, administrators gain comprehensive tools to manage transportation infrastructure, track cargo, and monitor vehicle health. The platform scales to accommodate new routes and transport hubs, supporting ongoing logistics growth.

# 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, IoT, and connected systems** vision.  GeoRobotix offers strategies and decades of implementation know-how that you can harness to master the world around you.

## Contact us

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