

Revolutionizing Agriculture

Drive innovation in agriculture by providing precision insights that optimize resource use, monitor crop health, and enhance sustainability.

Address challenges in climate-sensitive farming, irrigation, and soil management by integrating diverse agricultural sensors and IoT devices into a unified GeoRobotix platform.

Empower farmers and agribusinesses by connecting Sensors, Things, and Robots across fields, greenhouses, and supply chains, ensuring data-driven decision-making and increased yields.

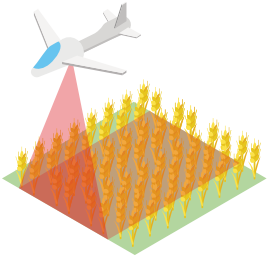
Combine GIS data, satellite imagery, and real-time sensor outputs to monitor crop growth, manage livestock, and forecast environmental conditions.

Transform agricultural operations into location-aware, web-accessible services, enhancing productivity and minimizing environmental impact.

Deliver a secure, scalable platform that supports sustainable farming, precision agriculture, and efficient resource management across diverse agricultural landscapes.

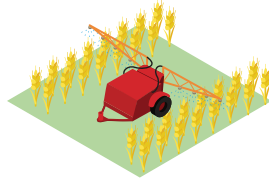


Integrating Sensors, Actuators and Processes



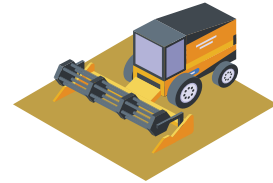
Crop Monitoring and Management

Multispectral and hyperspectral imaging, drone-mounted cameras, NDVI (Normalized Difference Vegetation Index)



Irrigation and Water Management

Smart irrigation controllers, water level sensors, flow meters, remote rain gauges, and evapotranspiration monitors to optimize water usage.



Soil Health and Fertility

Soil nutrient sensors, pH monitors, carbon and nitrogen sensors, compaction detectors, and precision fertilizer application systems.



Weather and Environmental Monitoring

Microclimate sensors, weather stations, frost and hail detection, UV sensors, and wind speed/direction monitors to forecast and mitigate environmental risks.



Livestock and Farm Equipment Tracking

Livestock GPS trackers, health monitors, drone surveillance, smart feeding systems, and automated equipment telemetry for predictive maintenance.



Pest and Disease Control

Automated pest traps, remote sensing for disease detection, pheromone detectors, and spray drone integration for targeted pesticide application.

Frequently Asked Questions

How to deploy?

GeoRobotix simplifies deployment across farmlands by integrating with existing agricultural machinery and deploying new sensors across fields and greenhouses. OpenSensorHub (OSH) ensures seamless connectivity, enabling efficient farm management.

How to secure?

Protecting sensitive agricultural data is crucial for operational stability. GeoRobotix ensures secure communications, encrypted data storage, and role-based access, safeguarding critical information and ensuring system resilience.

How to discover?

GeoRobotix enables intuitive discovery of agricultural data, allowing users to filter by crop type, field location, and environmental parameters. This ensures farmers receive relevant insights for maximizing productivity.

How to dispatch?

GeoRobotix facilitates the dynamic dispatch of agricultural equipment, drones, and irrigation systems, optimizing farm activities and ensuring rapid response to environmental changes.

How to administer/manage?

With GeoRobotix, farm managers gain comprehensive tools to oversee fields, livestock, and machinery. The platform scales to support growing agricultural operations, ensuring adaptability and sustainable 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

sales@georobotix.com

[@GeoRobotix](#)

www.GeoRobotix.com



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