

From Sensors to Services

Building Intelligent, Collaborative Geospatial Ecosystems

A new era where sensors, systems, and intelligence converge to create Cognitive Infrastructure for a Digital Planet.

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The Sensor Renaissance

In the past decade, we've witnessed a quiet revolution — a sensor revolution. From the skies to the streets, from orbiting satellites to buried IoT nodes, every sensor is now a storyteller, continuously capturing the pulse of our planet in unprecedented detail.



InSAR and SAR

Detecting sub-centimetre ground displacement and defects across structures like dams from space



Drone-based LiDAR

Generating high-resolution digital twins of urban corridors with oblique sensors



Mobile Mapping

GNSS technology for accurate cadastral boundaries and precise positioning



Edge IoT Sensors

Monitoring flow, stress, temperature, and human movement in real time

The result? A multi-dimensional understanding of reality — space, time, and context fused into one dynamic stream.

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InfraSight: Predictive Intelligence in Action

At NeoGeo, we've seen how sensor fusion transforms impact. The InfraSight platform combines SAR, optical, and thermal feeds with AI models to predict infrastructure failures before they happen.

Real-World Impact

- Detects slope failures and road subsidence early
- Identifies defects and cracks in structures
- Flags subtle displacement trends before visible damage
- Enables proactive mitigation and asset protection

That's the power of sensor fusion meeting geospatial intelligence.



Spatial Computing

The Engine Behind the Curtain

Spatial Computing is the nervous system that makes sensor data intelligent. By merging Artificial Intelligence, Machine Learning, Augmented Reality, and the Internet of Things, we convert millions of data points into situational awareness.



AI Prediction

Models predicting disease outbreaks by correlating weather, mobility, and health records



AR Visualization

Field engineers "seeing" underground utilities through tablet cameras



IoT Networks

Instantly signaling changes in air quality, water levels, or crowd density

These are not prototypes — they're live realities in Singapore, Israel, and increasingly, India.



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Haryana AI Health Platform

In Haryana, NeoGeo enables the AI Integrated Health Platform with analytics, healthcare centres management data, and emergency response feeds. It provides real-time visibility into state-wide healthcare operations.



Real-Time Visibility

State-wide healthcare operations monitoring

Faster Interventions

Emergency response coordination and resource allocation

Enhanced Accountability

Data-driven decision making for public health

That's spatial computing in public service.

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From Data to Decision

The Platform Paradigm Shift

The industry is seeing a decisive shift — from GIS as a tool to Geospatial as a Platform. At NeoGeo, we define our framework as **Map - Model - Manage**:

01

Map

Acquire and harmonize high-precision data from diverse sensors

02

Model

Use AI/ML and scientific simulations to derive patterns, correlations, and predictions

03

Manage

Deliver actionable insights through APIs, dashboards, and digital twins — to the right person, at the right time, on the right device

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Urban Asset Mapping Success

In an urban asset mapping project, our geospatial platform fused data from municipal CAD drawings, drone orthophotos, IoT-enabled electricity poles, and 3D LiDAR scans — producing an AI-audited digital twin of urban infrastructure.

40%

Efficiency Gain

Reduction in ground-truthing efforts

100%

Automation

Automated detection of encroachments

AI

Predictive

Maintenance schedules generated by ML algorithms

This is not just mapping — it's decision automation.



Collaboration, Not Isolation

No single organization can deliver the entire "sensor-to-service" continuum. The future of the geospatial industry isn't just about who has the best data; it's about who can integrate, interpret, and interoperate best.



Satellite Operators



Drone & IoT Innovators



AI & Cloud Architects



Platform Integrators



Domain Experts

Geospatial-as-a-Service: Where satellites don't just sell imagery, but insight; where AI firms monetize models, and system integrators stitch it all into operational intelligence for governance, utilities, and infrastructure.

Global Momentum

The Shift is Accelerating Worldwide

Europe

Destination Earth initiative creating a near real-time digital twin of the planet using space-based sensors and AI climate models

Middle East

Ports and logistics corridors monitored through integrated 3D twins combining LiDAR, radar, and IoT feeds

India

BharatNet 3.0 and Smart Cities 2.0 making geospatial layers the connective tissue of Digital Public Infrastructure

Imagine when land records, utility maps, urban assets, and environmental indices all synchronize spatially — the governance paradigm itself will shift from **reactive to predictive**.

The Map of the Future Won't Just Describe the World

It Will Run It

The next wave of innovation isn't in new sensors or better algorithms alone. It's in **integration, interoperability, and intelligence at scale.**

When sensors speak to platforms, when AI understands geography, and when governments and enterprises act in concert — that's when geospatial technology stops being an enabler and becomes an engine of transformation.

At NeoGeo, we believe the future is built on cognitive infrastructure — where every decision is spatially informed, every action is data-driven, and every outcome is measurable.

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