



Planning and Mapping

176 Quarry, Off Bai Bureh Road,
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PaMGIS GEOSPATIAL ANALYTICS PLATFORM

Delivered by PaM (Planning and Mapping)

Turning Location Data into Actionable Intelligence

Overview

PaM (Planning and Mapping) delivers PaMGIS Geospatial Analytics, an advanced spatial intelligence platform that transforms geospatial data into actionable insights for governments, development organizations, utilities, infrastructure agencies, and private enterprises.

PaMGIS combines GIS, remote sensing, artificial intelligence, machine learning, predictive analytics, and interactive dashboards to help organizations understand patterns, identify risks, forecast trends, optimize operations, and make better decisions.

By integrating spatial data with operational, demographic, environmental, and economic information, PaMGIS enables organizations to see not only *what is happening*, but also *where it is happening*, *why it is happening*, and *what is likely to happen next*.

The Challenge

Organizations today collect vast amounts of data but often struggle to:

- Visualize information geographically
- Identify trends and emerging risks
- Predict future outcomes
- Monitor performance across locations
- Integrate data from multiple systems
- Prioritize investments and resources
- Measure program impact
- Support evidence-based decision making

Without spatial intelligence, critical opportunities and risks often remain hidden.



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The PaMGIS Solution

PaMGIS provides an enterprise geospatial analytics environment that transforms raw data into meaningful insights through maps, dashboards, predictive models, and advanced spatial analysis.

Spatial Data Integration

- GIS data integration
- Enterprise database connectivity
- IoT and sensor integration
- Satellite imagery integration
- Multi-source data aggregation

Interactive Analytics Dashboards

- Executive dashboards
- Performance monitoring
- Operational analytics
- KPI tracking
- Real-time visualizations

Predictive Analytics

- Trend forecasting
- Risk prediction
- Demand forecasting
- Resource planning
- Scenario modeling

Remote Sensing & Earth Observation

- Satellite imagery analysis
- Land cover monitoring
- Environmental change detection
- Infrastructure monitoring
- Agricultural analytics

AI & Machine Learning

- Pattern recognition
- Automated feature extraction
- Anomaly detection
- Predictive modeling



- Decision support recommendations

Spatial Intelligence Services

- Hotspot analysis
- Network analysis
- Proximity analysis
- Suitability modeling
- Spatial optimization

Key Benefits

- ✓ Improve decision-making through data-driven insights
- ✓ Identify risks before they become crises
- ✓ Optimize resource allocation
- ✓ Improve operational efficiency
- ✓ Enhance planning and forecasting
- ✓ Strengthen program monitoring and evaluation
- ✓ Improve infrastructure and service delivery
- ✓ Support evidence-based policy development
- ✓ Increase return on investment

Core Platform Features

PaMGIS Analytics Dashboard

- Executive Reporting
- KPI Monitoring
- Trend Analysis
- Interactive Maps
- Performance Tracking

PaMGIS Spatial Intelligence Engine

- Advanced GIS Analytics



- Predictive Modeling
- AI-Assisted Insights
- Risk Assessment
- Scenario Simulation

PaMGIS Data Integration Framework

- Enterprise System Integration
- API Connectivity
- Real-Time Data Feeds
- IoT Integration
- Cloud Data Services

Enterprise GIS Infrastructure

- PostgreSQL/PostGIS
- Cloud or On-Premise Deployment
- Secure Role-Based Access
- High Availability Architecture
- Scalable Data Processing

Analytics Capabilities

Predictive Risk Analysis

Identify high-risk areas before issues occur.

Trend & Pattern Detection

Discover hidden relationships and emerging trends.

Resource Optimization

Allocate staff, assets, and investments more effectively.

Impact Measurement

Evaluate program outcomes and operational performance.

Forecasting & Planning

Support strategic planning with predictive intelligence.



Spatial Decision Support

Guide investments using location-based analytics.

Industry Applications

Government

- Public service planning
- Revenue optimization
- Infrastructure investment
- Urban development

Emergency Management

- Risk mapping
- Disaster forecasting
- Incident analysis
- Preparedness planning

Infrastructure & Utilities

- Asset performance monitoring
- Predictive maintenance
- Network optimization

Agriculture

- Crop monitoring
- Land suitability analysis
- Yield forecasting

Environment & Climate

- Climate risk assessment
- Deforestation monitoring
- Environmental compliance

Health & Social Services

- Service accessibility analysis
 - Disease surveillance
 - Resource allocation
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Implementation Approach

Phase 1 – Data Integration

Connect and organize spatial and operational data sources.

Phase 2 – Analytics Development

Develop dashboards, reports, and analytical models.

Phase 3 – Predictive Intelligence

Implement AI and forecasting capabilities.

Phase 4 – Enterprise Adoption

Support organization-wide decision making and performance management.

Deployment Options

Cloud Deployment

Secure, scalable analytics platform hosted by PaM.

On-Premises Deployment

Installed within government or enterprise infrastructure.

Hybrid Architecture

Combines cloud analytics with local data control.

Ideal Users

- National Governments
- Municipal Governments
- Development Agencies
- Infrastructure Authorities
- Utilities
- Emergency Management Agencies
- Agricultural Organizations
- Environmental Agencies



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- NGOs and Donor Programs
 - Private Sector Enterprises
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Why PaM?

PaM (Planning and Mapping) specializes in geospatial intelligence, spatial analytics, digital mapping, and decision-support systems.

Through PaMGIS, PaM empowers organizations to transform data into intelligence, intelligence into action, and action into measurable outcomes that improve governance, operational performance, and sustainable development.

PaM (Planning and Mapping)

Transforming Data into Spatial Intelligence

Transforming Property Data into Sustainable Revenue

PaMGIS Platform Features • Digital Mapping • Land Title Registration • Property Tax Administration • Emergency Response Management • Geospatial Analytics • Smart City Planning • Asset Management

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PaMGIS — Analyze Better. Predict Smarter. Decide with Confidence.