



Planning and Mapping

176 Quarry, Off Bai Bureh Road,  
Freetown, Western Urban, Sierra Leone

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# PaMGIS Platform Suite

## Geospatial Intelligence for Digital Governments, Smart Cities, and Sustainable Development

### One Platform. Multiple Solutions. Unlimited Possibilities.

PaMGIS is an enterprise geospatial intelligence platform developed by **PaM (Planning and Mapping)** to help governments, municipalities, utilities, development organizations, and enterprises digitize assets, manage land records, improve revenue collection, strengthen emergency response, and make data-driven decisions.

Built on a modern GIS architecture, PaMGIS combines mobile data collection, digital mapping, land administration, analytics, visualization, and workflow automation into a single integrated platform. The solution supports desktop, web, cloud, and mobile deployments and is designed specifically for the needs of developing and emerging economies.

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## Core Platform Capabilities

### Digital Mapping & Cadastre

Digitize lands, roads, addresses, utilities, and infrastructure using mobile and desktop tools.

### Land Administration

Manage parcels, titles, ownership records, document archives, and land transactions.

### Revenue Mobilization

Support property taxation, valuation, billing, payment tracking, and revenue analytics.

### Smart City Planning

Enable urban planning, zoning, infrastructure management, and 3D city visualization.

### Emergency Response

Improve disaster preparedness, situational awareness, navigation, and response coordination.



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## Geospatial Analytics

Transform spatial data into actionable intelligence through dashboards, reporting, and predictive analysis.

## Integrated Navigation

Support location services, routing, last-mile navigation, and field operations.

## Mobile Surveying

Capture geospatial information in real time using GPS-enabled mobile devices.

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# Product Portfolio

## PaMGIS Digital Mapping

Create authoritative digital records of lands, roads, addresses, utilities, and infrastructure.

### Key Features

- ✓ GPS-enabled field surveying
- ✓ Real-time spatial measurements
- ✓ 3D visualization of lands and roads
- ✓ Historical change tracking
- ✓ Encroachment detection
- ✓ Utility asset mapping
- ✓ Soil and terrain information
- ✓ Mobile and desktop workflows

### Benefits

- Reduce land disputes
- Improve infrastructure planning
- Build national digital cadastres
- Support smart city initiatives

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## PaMGIS Land Title Registry

Modernize land administration through secure digital title registration and management.



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## Key Features

- ✓ Automated title generation
- ✓ Multiple title templates
- ✓ Parcel splitting and combining
- ✓ Document management
- ✓ Title verification and validation
- ✓ Digital ownership records
- ✓ Audit trails and change tracking

## Benefits

- Strengthen land tenure security
  - Reduce land disputes
  - Improve transparency
  - Accelerate registration processes
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## PaMGIS Property Taxation

Increase internally generated revenue through GIS-enabled property taxation.

## Key Features

- ✓ Property inventory management
- ✓ Tax assessment support
- ✓ Revenue analytics
- ✓ Payment tracking
- ✓ Tax estimation models
- ✓ Property valuation workflows
- ✓ Compliance monitoring

## Benefits

- Increase revenue collection
  - Improve tax transparency
  - Reduce leakage
  - Support municipal finance modernization
-



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## PaMGIS Emergency Response

Improve disaster preparedness and emergency operations through real-time geospatial intelligence.

### Key Features

- ✓ Incident mapping
- ✓ Emergency routing
- ✓ Weather information integration
- ✓ Location intelligence
- ✓ Resource tracking
- ✓ Field data collection

### Benefits

- Faster emergency response
  - Better resource allocation
  - Improved situational awareness
  - Enhanced public safety
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## PaMGIS Smart City Planning

Support sustainable urban growth through geospatial planning and visualization.

### Key Features

- ✓ City planning algorithms
- ✓ 3D city visualization
- ✓ Infrastructure planning
- ✓ Zoning analysis
- ✓ Land-use management
- ✓ Urban growth modeling

### Benefits

- Better city planning
  - Reduced infrastructure costs
  - Improved land utilization
  - Sustainable development outcomes
-



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## PaMGIS Analytics & Decision Support

Transform spatial data into actionable intelligence.

### Key Features

- ✓ Spatial analytics
- ✓ Terrain analysis
- ✓ Tax analysis
- ✓ Encroachment analysis
- ✓ Distribution analysis
- ✓ Nearby places analysis
- ✓ Reporting dashboards

### Benefits

- Better decision making
  - Improved operational efficiency
  - Enhanced transparency
  - Data-driven governance
- 

## PaMGIS Navigation & Location Intelligence

Solve last-mile navigation challenges and improve location-based services.

### Key Features

- ✓ GPS tracking
- ✓ Route recording
- ✓ Last-mile navigation
- ✓ Address intelligence
- ✓ Location services integration

### Benefits

- Improved logistics
  - Better service delivery
  - Enhanced emergency response
  - Improved citizen services
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## Why PaMGIS

### Built for Governments

Designed to support national, regional, and municipal digital transformation initiatives.

### GIS Native

Powered by geospatial intelligence at every level of the platform.

### Mobile and Cloud Ready

Support for desktop, web, mobile, cloud, and hybrid deployments.

### Secure and Auditable

Role-based access control, document tracking, and historical record management.

### Scalable

Deployments ranging from local municipalities to national governments.

### Interoperable

Supports OGC-compliant standards, multiple GIS formats, and geospatial databases.

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## Ideal Customers

- National Governments
  - Land Commissions
  - Municipal Governments
  - Revenue Authorities
  - Emergency Management Agencies
  - Utilities
  - Development Organizations
  - Smart City Programs
  - Infrastructure Agencies
-



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## Transforming Nations Through Geospatial Intelligence

### **PaM (Planning and Mapping)**

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Digital Mapping • Land Administration • Revenue Mobilization • Smart Cities • Emergency Response • Analytics