



Planning and Mapping

176 Quarry, Off Bai Bureh Road,
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PaMGIS LAND TITLE REGISTRATION & LAND ADMINISTRATION SOLUTION

Delivered by PaM (Planning and Mapping)

Modernizing Land Governance Through GIS, Digital Mapping, and Spatial Intelligence

Overview

PaM (Planning and Mapping) delivers PaMGIS, a comprehensive Land Title Registration and Land Administration platform that digitizes land records, streamlines title registration, improves transparency, and reduces land disputes through advanced GIS, digital mapping, mobile surveying, and automated title management technologies.

PaMGIS enables governments, municipalities, land commissions, customary authorities, and development agencies to manage land ownership, parcel boundaries, title issuance, transfers, subdivisions, land valuation, and land administration workflows from a single integrated platform.

The Challenge

Many land administration systems continue to face:

- Paper-based land records
- Incomplete cadastral information
- Overlapping land claims
- Lengthy title registration processes
- Limited transparency and accountability
- Weak integration between surveying and registration functions
- Difficulty supporting taxation, planning, and investment initiatives

These challenges contribute to land disputes, lost revenue, reduced investment confidence, and inefficient service delivery.



The PaMGIS Solution

PaMGIS provides a secure, GIS-enabled digital land administration environment that supports the entire land registration lifecycle: from field survey to title issuance and long-term land administration.

Digital Parcel Registry

- GIS-based parcel mapping
- Unique parcel identification numbers
- Ownership and claimant management
- Spatial boundary management
- Historical ownership tracking

Mobile Survey & Field Data Collection

- GPS-enabled parcel capture
- Boundary surveys
- Mobile inspections
- Photo and document collection
- Offline data synchronization

Land Title Registration

- Automated title generation
- Digital registration workflows
- Configurable title templates
- Support for UTM, Latitude/Longitude, and national coordinate systems
- Digital approvals and verification

Land Administration

- Ownership transfers
- Subdivision and parcel consolidation
- Lease and concession management
- Encroachment detection
- Land-use monitoring

Document Management

- Deeds and survey plans
- Ownership certificates



- Supporting legal documents
- Digital archiving and retrieval
- Full document audit history

Public & Government Portals

- Parcel and ownership search
 - Land verification services
 - Administrative dashboards
 - Executive reporting and analytics
 - Decision-support mapping tools
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Key Benefits

- ✓ Reduce land disputes and ownership conflicts
 - ✓ Accelerate title registration and issuance
 - ✓ Improve transparency and governance
 - ✓ Strengthen land tax administration and building permits issuance
 - ✓ Secure land records through digital storage
 - ✓ Support urban planning and infrastructure development
 - ✓ Increase investor confidence
 - ✓ Establish a reliable national land information system
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Core Platform Features

PaMGIS Web Portal

- Interactive GIS Mapping
- Parcel Management
- Registration Workflows
- Reporting Dashboards
- Administrative Controls



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PaMGIS Mobile Survey App

- Field Data Collection
- GPS Parcel Mapping
- Boundary Verification
- Photo Capture
- Offline Operations

PaMGIS Spatial Database

- PostgreSQL/PostGIS
 - Enterprise GIS Architecture
 - High Availability Deployment
 - Secure Data Storage
 - API Integration Capabilities
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Land Registration Workflow

1. Survey & Data Collection

Capture parcel boundaries and ownership information

2. Verification & Validation

Validate ownership documents and survey information

3. Public Review (Optional)

Support objection and dispute resolution processes

4. Title Generation

Automatically generate land titles using approved templates

5. Approval & Registration

Authorized officers approve and register official records

6. Ongoing Administration

Manage transfers, subdivisions, leases, and update



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Deployment Options

Government Cloud

Hosted and managed on secure cloud infrastructure

On-Premises

Deployed within government or agency data centers

Hybrid Deployment

Combines local control with cloud-based scalability

Ideal Users

- Ministries of Lands
 - National Land Commissions
 - Municipal Governments
 - Local Councils
 - Property Tax Authorities
 - Development Agencies
 - Mining Authorities
 - Agricultural Agencies
 - Infrastructure and Utility Providers
 - Traditional Land Authorities
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Why PaM?

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

Through PaMGIS, PaM helps governments and organizations establish secure land tenure systems, improve governance, increase revenue generation, support economic development, and enable data-driven planning.

PaM (Planning and Mapping)

Technology for Better Land Governance



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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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