



Planning and Mapping

176 Quarry, Off Bai Bureh Road,  
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# PaMGIS EMERGENCY RESPONSE MANAGEMENT PLATFORM

Delivered by PaM (Planning and Mapping)

Enabling Faster, Smarter, and More Coordinated Emergency Response Through  
Geospatial Intelligence

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## Overview

PaM (Planning and Mapping) delivers PaMGIS Emergency Response Management, a GIS-enabled platform that helps governments, emergency services, humanitarian organizations, and disaster management agencies prepare for, respond to, and recover from emergencies more effectively.

PaMGIS integrates real-time situational awareness, incident management, resource tracking, emergency communications, field operations, and geospatial analytics into a single operational platform. The solution enables decision-makers to visualize events as they unfold, coordinate response teams, allocate resources efficiently, and improve public safety outcomes.

Whether responding to natural disasters, disease outbreaks, floods, fires, accidents, or security incidents, PaMGIS provides a common operating picture for all stakeholders.

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## The Challenge

Emergency response agencies often face:

- Delayed incident reporting
- Limited situational awareness
- Fragmented communication systems
- Inefficient resource deployment
- Lack of real-time operational visibility
- Poor coordination among agencies
- Incomplete disaster risk information
- Difficulty tracking field operations

These challenges increase response times, operational costs, and risks to affected communities.

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## The PaMGIS Solution

PaMGIS provides an integrated Emergency Operations Platform that combines GIS, mobile technology, incident management, and real-time analytics to support the full emergency management lifecycle.

### Incident Management

- Incident reporting and tracking
- Emergency call logging
- Event categorization
- Incident escalation workflows
- Multi-agency coordination

### Real-Time Situational Awareness

- Live GIS mapping
- Incident visualization
- Operational dashboards
- Real-time status monitoring
- Common operating picture

### Resource Management

- Personnel tracking
- Vehicle monitoring
- Equipment management
- Resource allocation
- Deployment optimization

### Emergency Dispatch & Coordination

- Dispatch management
- Team assignment
- Route optimization
- Field communication support
- Response monitoring

### Disaster Risk Management

- Hazard mapping
- Vulnerability assessment
- Flood risk analysis
- Evacuation planning



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- Early warning support

## Field Operations Management

- Mobile response applications
  - GPS tracking
  - Damage assessment
  - Field reporting
  - Offline data collection
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## Key Benefits

- ✓ Reduce emergency response times
  - ✓ Improve coordination across agencies
  - ✓ Increase situational awareness
  - ✓ Optimize resource deployment
  - ✓ Strengthen disaster preparedness
  - ✓ Improve public safety outcomes
  - ✓ Enhance operational accountability
  - ✓ Support data-driven emergency planning
  - ✓ Improve resilience to disasters and crises
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## Core Platform Features

### PaMGIS Emergency Operations Dashboard

- Incident Monitoring
- Resource Tracking
- GIS Visualization
- Response Coordination
- Executive Reporting

### PaMGIS Mobile Response App

- Incident Reporting



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- GPS Navigation
- Field Data Collection
- Damage Assessments
- Offline Operations

## PaMGIS Spatial Intelligence Engine

- Risk Mapping
- Predictive Analytics
- Impact Assessment
- Resource Optimization
- Situation Forecasting

## Enterprise GIS Infrastructure

- PostgreSQL/PostGIS
- Cloud or On-Premise Deployment
- Secure Role-Based Access
- API Integration
- High Availability Architecture

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## Emergency Management Lifecycle

### Preparedness

Develop response plans, hazard maps, and resource inventories.

### Prevention & Mitigation

Identify risks and reduce vulnerabilities.

### Detection & Reporting

Capture incidents through multiple reporting channels.

### Response

Coordinate personnel, equipment, and emergency operations.

### Recovery

Assess damages, manage recovery efforts, and monitor progress.



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## Continuous Improvement

Analyze performance and strengthen future preparedness.

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## Key Use Cases

### Natural Disasters

- Floods
- Storms
- Landslides
- Earthquakes
- Wildfires

### Public Safety

- Traffic accidents
- Urban emergencies
- Search and rescue
- Security incidents
- Public event management

### Public Health Emergencies

- Disease outbreaks
- Pandemic response
- Medical emergency coordination

### Humanitarian Operations

- Refugee management
  - Relief distribution
  - Needs assessments
  - Recovery coordination
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## Deployment Options

### National Emergency Operations Center

Supports country-wide emergency coordination and monitoring.



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## Regional & Local Emergency Centers

Provides district and municipal-level emergency management capabilities.

## Cloud Deployment

Secure, scalable deployment managed by PaM.

## Hybrid Architecture

Combines local operational control with cloud-based resilience and scalability.

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## Ideal Users

- National Disaster Management Agencies
- Emergency Operations Centers
- Fire and Rescue Services
- Police Services
- Emergency Medical Services
- Ministries of Health
- Local Governments
- Humanitarian Organizations
- Civil Protection Agencies
- Development Partners

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## Why PaM?

PaM (Planning and Mapping) specializes in geospatial intelligence, emergency management systems, spatial analytics, and decision-support platforms.

Through PaMGIS, PaM empowers governments and organizations with the tools needed to anticipate risks, coordinate emergency operations, protect communities, and build resilience in an increasingly complex world.

## PaM (Planning and Mapping)

### Protecting Communities Through Geospatial Intelligence

**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 — See Faster. Respond Smarter. Save Lives.**