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INTRODUCTION

PMM is a level 2 BBBEE company that believes in driving development within SA forward.

Leaders
On the forefront of custom software development providing you an edge

Comprehensive
Giving you peace of mind with complete & accurate data

Reliable
An integrated system that is highly visual and user-friendly

OVERVIEW

PMM was established in 2003, with the core focus of developing custom-made Software, specialising in Oracle web-based solutions, including GIS & Mobile GIS applications and the rendering of related services (Express GIS in Layman Terms to display locations on maps).

The development of Custom-Made Oracle Web-based software solutions serves to fit your project needs. Various Specialised Solutions and/or Services are offered by PMM:

- Big Data analysis utilising Oracle Big Data, Pandas, R & STATA
- On-site GIS data collection for the verification of households and assets
- Document management systems
- Process automation
- Data vending

ACCREDITATIONS

PMM is an Oracle Gold Partner which keeps PMM in the know with the latest software development trends.

PMM was the first entity in South Africa to develop solutions in Oracle Process Cloud and Content.

PMM further received Oracle Exastack Ready Certification which implies that our applications are designed and developed to meet international required quality system development standards and functionality

PMM is a Carto Certified Partner which enables us to visualise and analyse location-based mega GIS datasets via a powerful, flexible enterprise-ready and user-friendly platform.

PMM utilises Block Chain technology to secure and encrypt Valuation Information in our Oracle Database.

“If data is inaccurate or incomplete, it’s useless to you and will not accomplish your goals, causing you to fail.”
“If you’re not compliant, you run the risk of losing out on future opportunities.”

GIS and Mobile GIS business opportunities drive our development of various custom-made Mobile GIS software packages to address our clients’ ever-changing needs. Our Oracle on Oracle Solutions, exceptional in-house skills and experiences make PMM a leader in the mobile GIS industry. Our mobile solution records GPS coordinates linked to the attribute data & images. Recordings are Saved & Synchronized to a central server from where the data is immediately accessible on the web.

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- PMM further received Oracle Exastack Ready Certification which implies that our applications are designed and developed to meet international required quality system development standards and functionality.
- PMM is a Carto Certified Partner which enables us to visualise and analyse location-based mega GIS datasets via a powerful, flexible enterprise-ready and user-friendly platform.
- PMM utilises Block Chain technology to secure and encrypt Valuation Information in our Oracle Database.
PMM has the following developed software solutions which can be custom-made to meet your business user requirements:

1. **Meter Reading Technology**
   Our web-based GIS meter reading system has the following functional specifications:
   - Sub-meter accuracy to ensure the accurate location of the meters
   - OCR technology to ensure accurate meter readings
   - Synchronisation function to sync meter reading data to a central server which integrates with the debtors’ system which limits human intervention

2. **Spatial Planning & Land Use Management System (SPLUMS)**
   Our Land use management system supports a Single Land use scheme which incorporates the Spatial Development Framework (SDF) and other data sources for all spatial planning and land use management functions data is immediately accessible on the web.

3. **Deeds Search Application**
   Our deeds search application daily auto-update all transfers in the demarcated area of the municipality to maintain the deeds status for all the various municipal systems e.g.
   - Land use management system
   - Debtors
   - Valuation & Supplementary valuation rolls
   - GIS

4. **Valuation Roll System**
   Our Oracle on Oracle GIS Web Based Valuation System incorporates a Mobile GIS Application for field cards for all property categories.
   The System further provides
   - Property Master File with Deeds data and Surveyor General Spatial data Layers
   - Computer Aided Mass Appraisals for Valuations
   - Audit Trail
   - GIS Database
   - Electronic field cards
   - Objection and Appeal Processes
   Our valuation system integrates with the Deeds office, Municipal GIS and debtors’ systems. Our automated building plan and town planning approval system integrates with the valuation system to trigger supplementary valuations and continuously maintain the property master file.

5. **Fixed Asset Verification & Condition Assessment System (FAAS)**
   Our on-site GIS data collection tool force assessors to be within 5m of a research point to ensure accurate and complete asset verification and condition assessments.

6. **Automated / Integrated Building & Town Planning Approval Processes**
   PMM developed an automated and integrated Building and town planning approval system for municipalities to manage all relevant building plan and town planning approval processes. The solution also manages the issuing of occupancy certificates, and integrates with the valuation system to trigger supplementary valuations to continuously maintain the property master file.

7. **Document Management System**
   Our Document Management System (DMS) is an electronic system that assists an organization to streamline their document management processes. It enables scanning, storage, retrieval, sharing, tracking, revision, and distribution of documents and hence information and data they contain.

8. **Schools Feeder Zone System**
   Our GIS web-based school feeder zone system allows schools to record their learner feeder zone in a GIS database.

9. **End-to-end RDP Housing Administration System**
   Fully automated transparent rules-based Web-based Housing Database storing all household information across all RDP housing cycles with incorporated Biometric fingerprint verification, validated ID numbers and signatures.
   End to end system comprising of a Web-based management platform for authenticated users and a mobile application to allow online and offline capturing with built-in validation controls and GIS functionality, save & synchronization functionalities, quality control and reporting across all cycles of Housing

10. **RDP Housing Inspection Tool**
    PMM's RDP housing inspection tool has the following characteristics:
    - The inspector must be within the stand boundaries
    - Various inspection levels with Logic Inspection Flow
    - Embedded photos for each inspection level
    - Only approved beneficiaries occupy houses (house handover)
    - Payment milestones per inspection level
Bongani Slbuyi (CEO)
IT Technician
Web Developer
J2EE Developer
Software Developer

Bongani comes from a software development background, where he worked on several turnkey projects in government, private sector and parastatals. He has vast experience with the deeds office, Surveyor general and Land restitution systems after spending 10 years with the department of rural development and land reform.

His previous experience also includes SARS eFILING integration as a senior developer.

His international certifications include Oracle Certified Java Professional and Prince 2 Project Management Framework.

He’s currently pursuing his studies toward BCOM Economics.

Flip Jooste (CIO)
Land Surveyor
GIsc Practitioner
Spatial Analyst

Flip is the Director and Chief Information Officer at Professional Mobile Mapping(PMM). He is a registered Professional Land Surveyor and GIsc Practitioner, with more than 20+ years’ experience as Spatial Developer, Spatial Analyst/GIS Specialist and in developing GIS and Mobile GIS applications.

As GIS Specialist, Flip developed and managed various GIS related projects for amongst others: Department of Department of Rural Development and Land reform, National and Provincial Department of Public Works, SABC, Department of Justice and Constitutional Development, City of Johannesburg, Ekurhuleni Metropolitan Municipality, Gauteng Department of Education, Gauteng Department of Housing, National Department of Housing and Statistics South Africa.

Throughout his career journey as experienced professional, his joint knowledge and experience in the fields of land surveying, GIS and Software Developer has made him to excel in offering the ultimate Mobile GIS Solutions manage projects in the modern world, covering all spheres in the geographical information system environment.

OUR TEAM

Kulane Mabunda
IT Technician
Web Developer
J2EE Developer
Software Developer

Refliwe Magampa
Client Relationship Manager
Human Resource Management

Rhine Singh
Oracle Database 10g Administration
SQL
C-Sharp
Oracle Certified Associate
Database Administration
Oracle Apex Developer

Mojela Samuel
JSE / J2ME
JEE / VB
NET / Android
Java Script / Oracle Jet
Node JS / MCS
SQL

Nyiko Mahlaule
Programming: Asp.net, C#, JavaScript, Html, MVC
Database: SQL Server, Microsoft Access, MySQL
Computer competency: Microsoft Office, Microsoft Project, Microsoft Visual Studio, Microsoft Visio, Microsoft Windows 2000 - Windows 10, A+ (troubleshooting, installation and software interaction)

Mafhara Awelani
Computer Literacy: MS Word, MS Excel, MS PowerPoint, MS Visio
MS Projects: Process Mapping, Facilitate JAD sessions, Drafting Memos, SDL Documents drafting, Knowledge of BABOK, Knowledge of EA book, Advanced communication skills, Advanced report writing and presentation skills, Advanced scientific report writing and data analysis skills
OUR APPROACH

When building our solutions, we proactively take the future into account, making sure that your system can adapt to your growing needs.

KEEP YOUR DATA

Accurate
Complete
Secure
Reliable
Integrated
Compliant

OUR PROCESS

Inception
- Project Charter
- Project Inception
- Project Plan
- SLA

Analysis
Business Process & Systems Analysis
- BUR Specifications
- Functional Specifications
- Technical Specifications
Development & Integration
- Prepare Development Environment
- Interface Analysis

Infrastructure & Technology
- Infrastructure Readiness Assessment

Change Management
- Stakeholder Analysis

Testing
- Develop Testing Plan
- Execute Testing Plan

Training
- Develop Training Plan
- Develop Training Material

Pilot Project & System Implementation
- Pilot in 2 Provinces
- Pilot Support & Monitoring

Go Live
- National Go Live
- Go Live Activities
- Post Go Live Support
- Project Close Out

Support & Maintenance
- Support & Maintenance Activities
- Support regarding Required Improvements
- Capacity Building Program
- Final Handover

Development
Business Process & Systems Analysis
- Requirements Management
Development & Integration
- Database Design
- Setup/Configure Oracle Mobile Server
- Setup GIS/Oracle Spatial Database
- Design/Develop Web Application
- Design/Develop Report Features
- Integration Deeds/SG/ Home Affairs

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PMBOK organises Project Management Processes into five groups, which are interlinked. An output of one process is often an input to another process.

**OVERVIEW**

Business Process & Systems Analysis:
- Authorise the project

Planning Process:
- Defining and refining the objectives and selecting best of the alternative courses of action to attain the objectives that the project was undertaken to address

Executing Process:
- Co-ordinating people and other resources to carry out the project plan

Controlling Process:
- Ensuring that project objectives are met by monitoring and measuring progress regularly to identify variances from plan so that corrective action can be taken

Closing Process:
- Formalising acceptance of the project or phase and bringing it to an orderly end-measuring progress regularly to identify variances from plan so that corrective action can be taken

**INTEGRATION**

These processes will be integrated with the following knowledge areas of project management.

**Project Integration Management**
Coordinating project activities and integrating them into a project plan; analysing and reporting the results of carrying out the plan; controlling changes to baseline plan; and collecting and organising project information in a project information system.

Process includes:
- Project Plan Development
- Project Plan Execution
- Integrated Change Control

**Scope Management**
Ensuring that the project includes all the work required for successful project execution, the scope is properly managed, and the work required is shared with the customer, stakeholders, and project team.

Process includes:
- Initiation
- Scope planning
- Scope definition
- Scope verification
- Scope change control

**Project Time Management**
Developing a project schedule, managing the schedule, and ensuring that the project completes within the approved timeframe.

Process includes:
- Activity definition
- Activity sequencing
- Activity duration estimating
- Schedule development
- Schedule control

**Project Cost Management**
Determining the total costs of the project; managing those costs, and ensuring the project completes within the approved budget.

Process includes:
- Resource planning
- Cost estimating
- Cost budgeting
- Cost control

**Project Quality Management**
Ensuring that the products and services meet specifications and satisfy customer requirements.

Process includes:
- Quality Planning
- Quality Assurance
- Quality Control

**Project Human Resource Management**
Ensuring that the requisite skill sets required for specific project activities are defined and that appropriate individuals are identified and assigned to the project activities.

Process includes:
- Communications planning
- Information distribution
- Performance reporting
- Administrative closure

**Project Communications Management**
Managing all project information requirements from information collection, to dissemination, and feedback.

Process includes:
- Communications planning
- Information distribution
- Performance reporting
- Administrative closure

**Project Risk Management**
Identifying, analysing, responding and controlling risk factors throughout the life of the project. Risk management strives to understand the risk probability and impact and develops a mitigation strategy to monitor and manage the project risk.

Process includes:
- Risk management planning
- Risk identification
- Qualitative risk analysis
- Quantitative risk analysis
- Risk response planning
- Risk monitoring and control

**Project Procurement Management**
Ensuring that all goods and services required to support the project is procured by way of a planned and managed process.

Process includes:
- Procurement planning
- Solicitation planning
- Solicitation
- Source selection
- Contract administration
- Contract close-out
Department of Justice
Customised Mobile GIS Condition Assessment tool for physical verification, Asset condition assessment and space audit of immovable assets.

SABC TV Licence Inspection Tool
A Mobile GIS Application used for identifying unlicensed households nationwide utilising:
- Spatial data
- Web Services
- Open Source platform
- Mobile Platform
- Web Platform
- Spatial Mapping

Department of Public Works
An enhancement of the National Department of Public Works Mobile GIS Fieldwork Technology Solution.

MDP Consulting
A Mobile GIS Asbestos Roof inspection tool for the Gauteng Department of Human Settlements.

Department of Rural Development & Land Reform
Ekurhuleni Metropolitan Municipality/ Indigo Kulani Group.
A Property auditing, Immovable Asset Management and Immovable Asset Condition assessment system utilising:
- Spatial data
- Web services
- Open source platform
- Mobile Platform
- Spatial Mapping
- Carto DB Spatial Web Mapping

National Department of Public Works
A Mobile GIS Fieldwork Technology Solution with web-based back-end platform for Physical on-site verification and condition assessments audits with web-based reporting utilising:
- Spatial data
- Web Services
- Open Source platform
- Mobile Platform
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KEY PROJECTS

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“Our Oracle on Oracle Solutions, exceptional in-house skills and experiences make PMM a leader in the mobile GIS industry...”
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