



Transforming IT into Operational Capability

Profile: Defence

Company Overview

Matsei, a Level 1 BEE company, was formed by individuals whom individually have long and successful track records in building and managing businesses and delivering projects successfully in both the public and private sectors. This track record and associated business network allows Matsei to attract the services of experienced and recognised specialists providing a sound basis for service delivery as well as for South African skills creation.

Matsei's experience centres on the design, provision and effective implementation of IT solutions into the Public Sector in general as well as specialising in solutions for both the Military and Industry domains of the Aerospace and Defence sector.

Matsei's resources collectively has decades of experience within the international Aerospace and Defence arena amongst other spanning programmes in the UK, France, Canada, Sweden and the UAE. In this pursuit, we have gained experience in both the design and development of bespoke IT solutions as well as gained experience with most of the dominant COTS/MOTS solutions specifically catering for the Aerospace and Defence market. In addition, a number of our resources held significant positions on the Government IFMS programme and Matsei is well equipped to deliver Defence specific solutions cognisant of Government's general IT direction and requirements.

Utilising IT Architecture and System Engineering capabilities, our business model aims to leverage our expert in-house capability, specialist subsidiary companies, and strategic partners to deliver integrated higher level user systems.

Situated at the excellently facilitated Innovation Hub in Pretoria, Matsei is ideally located to support the SANDF and RSA Defence Industry.

Vision

Our Vision centres on the following key points:

- Indigenous and Strategically stable Company recognised as being a globally competitive supplier of ICT Products and Services into the technically challenging areas of the Aerospace and Defence market.
- A Company that has amassed the size and skills portfolio required to be credibly contracted as Prime System Integrator delivering large Defence ICT solutions in the RSA and other emerging Defence markets.
- A Company known for its skills development ability and be an employer of choice amongst young upcoming technical professionals.
- A Company truly contributing to the SANDF and other client's operational capabilities through the cost-effective implementation of solutions against expected cost, time-frames and specification.
- Be a partner of choice within the Industry at large.
- Be an exemplary Company within the context of Skills Development, Transformation and the National Development Plan.

Mission

- Actively pursue the true and viable "make a difference" projects.
- Contract responsibly and Deliver against expectation.
- Amass and retain the specialist skills portfolio required to contribute cost-effectively to these projects.
- Capacitate for skills creation and identify, pursue and attract leading talent.
- Retain and grow talent through structured knowledge investment and a vibrant corporate culture.
- Align with other leading solutions partners known for being suppliers of performing Products and real Services delivery.
- Implement professional Management and Governance practices enabling effective collaboration with Partners and Clients.
- Establish and protect the Company's values in terms of Integrity, Objectivity and real Delivery capacity.





Defence Landscape

Matsei is well familiar with the prevailing DOD operating environment and understands that solutions will have to be provided amidst an integrated range of challenges. Some of the key change drivers being as follows:

Financial pressures and impact on sustained capability and readiness levels.

The DOD is conservatively funded by international norms and that on a continent that is experiencing significant increases in military spending and subsequent capability. Amidst responsible Human Resource employment practices, the operational readiness levels of prime equipment systems comes under severe financial pressure necessitating the introduction of a holistic Through Life Capability Management (TLCM) based operating model.

Strategic Defence Review 2013.

The recent Strategic Defence Review calls for a much more actively employed Defence Force in the form of missions such as UN supportive Peacekeeping Missions, Border Safeguarding and Protection of National Key-points. Whereas the SADF were conservatively occupied with Force Preparation duties in the last two decades, it will have to increase its capacity for the conduct of concurrent operations from military capability, support, command and control, and administrative perspectives.

UN Missions.

Reimbursable United Nations missions requires military operations to be comprehensively managed as commercial undertakings. As such, military commanders and administrative staff needs to be capacitated with the skills and information to be able to concurrently conduct such operations from both military and contractual programme management perspectives.



HR Profiling and Transformation.

The SANDF is continuously under pressure to optimize and manage its HR profile to the levels of demography, skills categories, seniority, deployability and structure required by its mandate and anticipated operational profile. This challenging task requires specialist HRM skills and information systems in its own right.

Changing nature of Industry Relationships.

Due to the complexity, cost and long service lives of modern prime equipment systems, the nature of the relationships between the Military and its supporting Defence Industry base is changing. Whereas the Military historically capacitated for the in-house support of systems, this is now increasingly being replaced by support contracting with Industry that can take any number of shapes such as Performance Based Logistics contracting. Once again, this calls for the capacitation of logistics contract management resources supported by comprehensive information systems capable of exchanging applicable technical and commercial data between the various involved entities.

General Governmental Compliancy.

Defence Forces are increasingly being expected not only to comply with general statutory regulation but to physically interact with transversal Government systems. This poses the challenge of concurrently ensuring Military security and uninterrupted availability of specialist Defence functionality whilst interoperating with the generalist Government systems.

State of DOD ICT Systems.

The current portfolio of DOD ICT systems are technologically outdated, functionally in-adequate and suffers from siloed duplication in key areas. This is recognised in the SDR 2013 which clearly identifies that the DOD will need to rapidly evolve its systems to an Integrated Defence Enterprise Information System (IDEIS) if the above challenges are to be met.



IDEIS Solution Requirements

To be effective in the approaching Military financial and operational scenario, an Integrated Defence Enterprise Information System (IDEIS), such as is strongly called for in the SDR 2013, will need to offer a range of key features. These include the following:

Support for the DOD Operating Model

An IDEIS solution will have to support the overall DOD operating model through the concurrent management of, and seamless transitioning between, the application of Force Elements and associated Capabilities over the principle stages of:

- Force Design
- Force Acquisition
- Force Preparation
- Force Employment
- Phase-out & Disposal

The above fully subject to the required Governance and Support functions whilst providing both Divisional as well as Services specific functionality, both autonomously as well as in Joint operational context.

Adaptability

The DOD IDEIS requirement will involve both general global Military requirements as well as requirements unique to the SANDF. As such, the IDEIS solution will have to be configurable to present standard Military functionality in the context of the SANDF's business process requirements as well as allow for the additional, modular, yet integrated development of SANDF unique functionality.

Interoperability

Modern Defence ICT solutions is expected to interface successfully with a growing number of peer as well as other external systems. IDEIS type solutions are expected to interface in real time with systems such as operational Command and Control systems, Industry Logistics Support systems, Veterans Support systems and other Governmental systems such as National Treasury systems. To achieve this, the solution platform must provide a range of open, configurable yet secure interoperability supportive services.

System Performance

Given increasingly complex weapon systems, the scope of operations required to be supported by integrated information systems and the real time nature of network centric operations, it is imperative the Military ICT solutions not suffer from a lack of performance originating from any one of the technological layers involved such as database operations, application efficiency or communication infrastructures. In scenarios where such limitations are anticipatable, contingency features must ensure essential operational serviceability at the required point of usage.

Inherent Functional Integration

An IDEIS solution will have to provide seamless and inherent integration between the principal domains of:

- Operations
- Logistics
- HR
- Finance
- Military Health

Defence Sector Integration

An IDEIS solution must enable effective and integrated cooperation in the Defence Sector at large covering:

- Armed Forces
- Defence Industry
- Other Industries (e.g. Health Industry)
- Procurement Agencies
- Veterans Management Systems
- Other Governmental Departments and Agencies (incl. Treasury)
- Multi-National Operations (e.g. Joint UN operations)

Military Security

An IDEIS Solution must ensure integrated multi-tiered military security covering all technological layers and access channels across all of the potential platform deployment scenarios.

Deployable Military Platform

An IDEIS Solution must be operable from a range of operationally deployable platforms including:

- Static in-country infrastructure
- Asynchronous or Synchronously connected Deployed server infrastructure (e.g. Forward base)
- Autonomous Mobile server/PC supported operations (e.g. Naval Vessel)
- Mobile smart devices (e.g. intra-facility support such as in a Hospital)





Matsei's products and services portfolio was designed against the backdrop of the technology and skills required to acquire, integrate, configure and implement enterprise level Military ICT solutions conforming to these requirements.



Our defence specific business consultation areas:

- Through Life Capability Management (TLCM)
- Weapon System Life Cycle Management
- Commodities Management
- Facilities Management
- Product Data Management (PDM)
- Logistics Support Analysis (LSA)
- Supply Chain Management
- Inventory Management for Advanced material items (e.g. Rotables and Munitions)
- Maintenance Repair and Overhaul (MRO)
- Product Life Cycle Support (PLCS) and Performance Based Logistics
- Procurement and Acquisition Management
- Operations Planning and Support
- Defence Master Data Management
- Electronic Content Management (ECM)
- Enterprise Asset Accounting
- Financial Management and Capability based Budgeting
- Defence Manufacturing
- Military Health
- Veterans Administration

Services offered in conjunction with specialist consultation areas:

Enterprise Architecture Frameworks

We provide qualified and experienced TOGAF, Zachman, FEAF, MODAF, DODAF and GWEA architecture framework professionals to define and implement suitable architecture frameworks and tools for projects.

Solution Implementation

Our resources have years of extensive experience in large and complex ERP implementations in the public and Defence sectors which makes us the perfect partner for large IDEIS type implementations. Our ERP domain specialisation includes all of the subject areas listed above. Implementation projects are managed through our expert Project Management capability (incl. PMBOK, Prince 2) and extensive knowledge of Software ERP Implementation methodologies.

Integration Architecture

Using typical Service Orientated Architecture (SOA) approaches, we architect the integration of an organisation's business processes and underlying ICT services through applicable middleware (e.g. ESB, BPM, and MDM) or other mechanisms. Integration may span from the internal integration of system functionality into business process supportive workflows to the design of interfaces with external systems.

Solution Architecture

Our solution architecture services ensure that enterprise ICT solutions align to actual business requirements leveraging business process management, application, data, middleware and security technologies to ensure technology efficiency and return on investment.

Business Architecture

Our business architecture capability comprises enterprise performance, organisation, business process and information modelling. Business architecture deliverables are derived from the applicable enterprise business strategies and operating models providing an enterprise with improved business capabilities and agility. Standards used for modelling include IDEF, BPMN and UML. Our existing knowledge base, comprising of Leading and Standard Business Architecture models and templates can be used to accelerate business architecture initiatives i.e. APQC PCF.

System Engineering Services

We offer ISO 12207/ ISO 15288 based system engineering services ensuring complete system life cycle control for an enterprise.

Information Architecture

Our information architecture services constitutes a key linking construct between the business and system designs ensuring that information and data is an asset for an enterprise. We acquire, align and structure an organisations information to become a valuable complete and internally consistent asset utilising amongst other MDM, ECM and BI layers.



Key services

Major Clients

Track Record

Matsei resources have extensive experience in the Defence and related sectors with historic involvement in projects such as the following:

SANDF: Leading involvement in projects such as the OSIS, Deployed Health, IRMS, Monolog and Through Life Capability Management (TLCM) projects.

International Military: Leading involvement in large Integrated Logistics Systems projects in the UK, Canada, France, South America and the UAE.

Local Defence Industry: Involvement in Armscor and various Denel related projects.

International Defence Industry: Involvement in OEM related projects in Italy, Sweden and the UK.

General Public Sector: Involvement in Government's IFMS initiative.





Our principle product partner

Based on our international Defence IT experience and familiarity with the SANDF's IDEIS objectives, Matsei has aligned itself with SAP's Defence Force and Public Security (DFPS) offering as a core Defence solution. We believe that the DFPS product range offers a comprehensive, fully integrated and cost-effective solution to the requirements and challenges associated with the IDEIS objectives. As a MOTS solution, DFPS offers fast time-to-value, a documented base for skills development and excellent support for local configurability and additional modular extension by means of local development. The latter providing a technically stable and financially viable base for re-capacitation of the local Defence IT industry. The extended Defence significant SAP product range covers areas such as the following:

- Core SAP ERP
- DFPS suite
- SAP Health
- SAP Real Estate (Facilities/Works) Management
- SAP Distribution Management
- SAP Maintenance Repair and Overhaul (MRO)
- SAP Aerospace and Defence Manufacturing
- SAP Supplier and Sourcing Management
- SAP Project Management
- SAP Genie (Veterans and Skills Management)

The SAP application suite runs on the class leading Netweaver platform offering Configurability, Interoperability, Deployability, Performance and Security. The SAP solution is fully compatible with the SANDF's current and anticipated Hosting Infrastructure direction.



The world leader in enterprise software and software-related services. Our services and SAP solutions comprise SAP ERP, SAP SRM, SAP Sourcing, SAP Supplier Lifecycle Management, SAP Netweaver, SAP Solution Manager, DFPS, SAP Health, SAP Real Estate Management.

**Matsei is a SAP Commercial Sales Partner*

Copyright © 2014. Matsei and/or its affiliates. All rights reserved. Published in South Africa. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, disclaim any liability with respect to this document and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written consent.

SAP logo is a registered trademark of SAP international and/or its affiliates.

Other names may be trademarks of their respective owners.



Contact Information

Matsei Technologies and Consulting (Pty) Ltd

Registration No: 2013/071087/07

Innovation Hub, The Innovation Centre
Unit 23 A Enterprise Building
Mark Shuttleworth Street at The Innovation Hub
Pretoria, South Africa, 0087

Phone: 012 844 0248/082 448 0517

Fax: 012 844 0249

Visit: www.matsei.co.za

Contact Persons:

Thando Mbandlwa: Thando@matsei.co.za

Bertus van Niekerk: Bertus@matsei.co.za

Leon van Deventer: Leon@matsei.co.za
