

**IZINGA**  
INTEGRATED SOLUTIONS

## COMPANY PROFILE

Izinga Integrated Solutions (Pty) Ltd

## ABOUT US



Izinga Integrated Solutions is a Maintenance Management Consulting and Solutions Provider providing bespoke client solutions integrating our deep industry knowledge and real-world exposure across the maintenance management spectrum



Our business is founded on almost 20 years of industry experience within the automotive, medical equipment, IT and telecoms, mining and smelting, building maintenance, construction and railway industries



We offer a partnered approach to a full spectrum of maintenance services and solutions designed around our clients' needs



We are a growing organisation with a culture of being at the forefront of cutting edge technology and innovation



Our vision is to be the leader in the maintenance management solutions space within our selected target markets



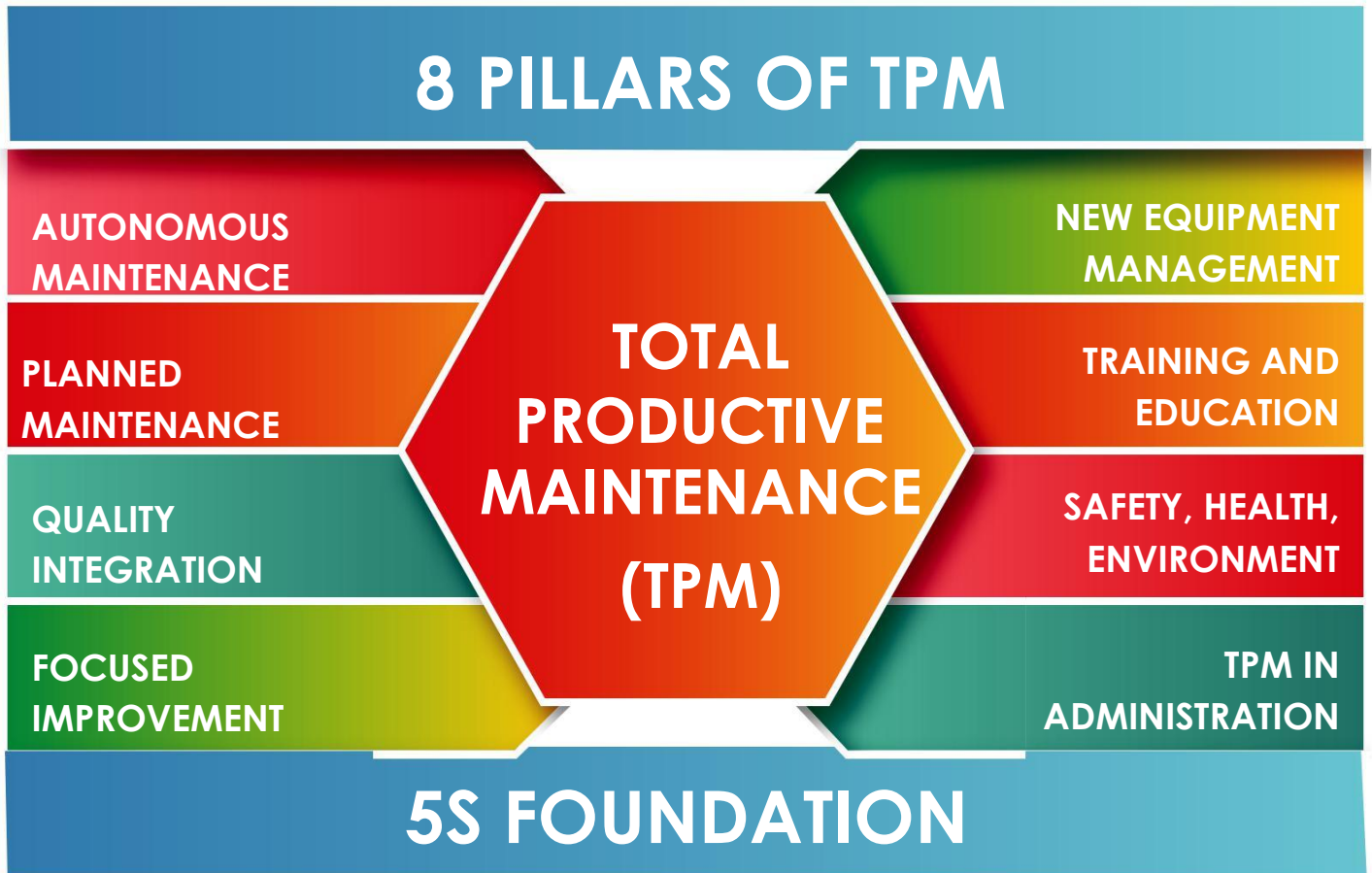
Izinga Integrated Solutions is a 100% BEE entity (Level 1) with offices in Johannesburg as well as in Kwa Zulu Natal and provide our services throughout South Africa





## WHAT WE DO

Our Maintenance Management philosophy is based on the concept of Total Productive Maintenance (TPM)



# REALITY: WHY MOST MAINTENANCE MANAGEMENT SOLUTIONS FAIL IN COMPANIES?

Working with various organisations over the years the following challenges are evident:

## **Maintenance management processes and systems**

- Lack of rigorous maintenance management practices – strategy, systems and processes are not in place
- Reactive and unscheduled corrective repairs occur rather than planned and predictive equipment life cycle-based maintenance
- Outdated legacy systems not compatible with new technologies

## **Data science and documentation management**

- Lack of or incomplete documentation and poor record-keeping
- Historical, failure and wear rate data are not maintained or available
- Bill of materials data is not readily available or corrupt

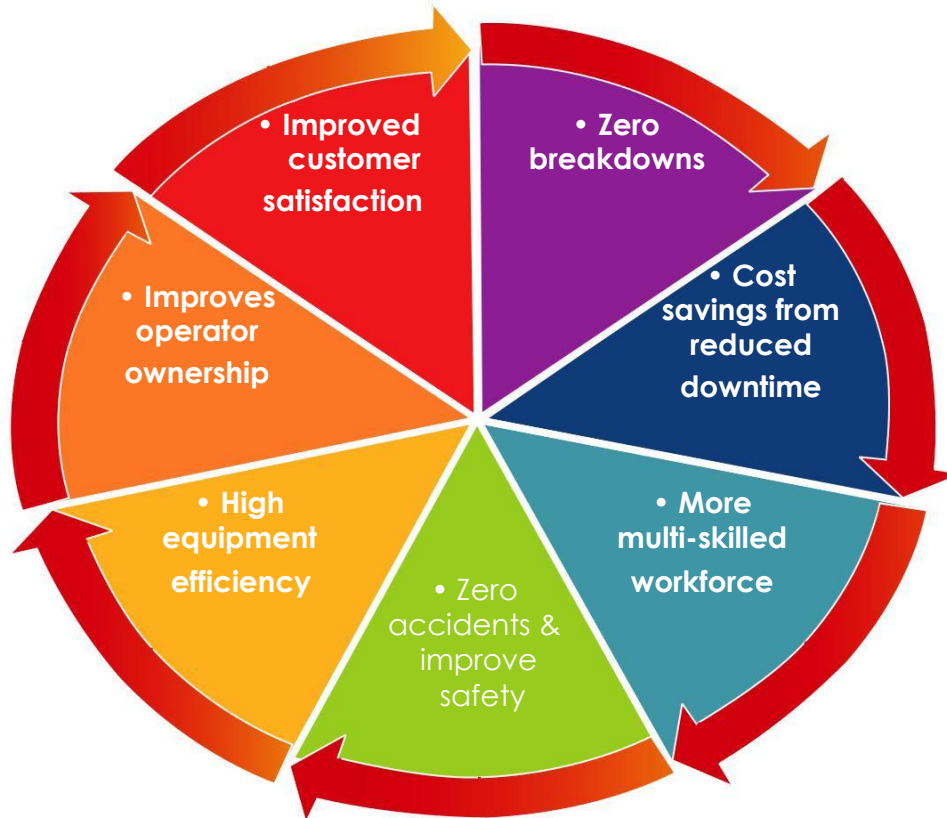
## **Equipment life cycle planning**

- Forecasts and costing of replacement equipment and components is not done
- Planned obsolescence is not considered
- Forecasting and budgeting of maintenance required over equipment lifespan is not done

## **Training and development**

- Skill levels within these organisations vary resulting in sub-optimal maintenance practices
- Lack of knowledge in terms of maintenance best practices
- Insufficient funding and budgeting for training
- Insufficient or lack of real and relevant training material

# THE MANY BENEFITS OF GOOD MAINTENANCE MANAGEMENT PRACTICE



## VALUE PROPOSITION

- We are a growing organisation with a culture of being at the forefront of **cutting-edge technology and innovation**
- New, smart technology **solutions that interface** with a broad spectrum of existing systems and platforms
  - IoT and Industry 4.0
  - Smart, autonomous solutions development such as machine learning and AI
  - Autonomous service on demand requests
  - Remote data feed access for analytics
- We offer a **guided and collaborative approach** to ensure that the solution delivers on the client's needs

# OUR SERVICE OFFERING

## CONSULTING

### DESCRIPTION:

High level maintenance management strategy development

### OUTPUTS:

Gap and needs analysis

Formulation of maintenance management roadmap

## MAINTENANCE ENGINEERING

### DESCRIPTION:

Operational involvement in linking strategy with operations

### OUTPUTS:

Design and development of maintenance plans, schedules

Design and development of systems and processes

Analysis and development of equipment life cycle

Detailed, integrated implementation and execution plan with options

## DATA SCIENCE & DOCUMENTATION

### DESCRIPTION:

Data and information-based solutions

Documentation management

### OUTPUTS:

Smart capture of data

Smart and customisable dashboards

Data-driven process improvement

Inventory management and ERP solution

Database design and management

Tracking and trending of historical data

Development of full scope of maintenance documentation (MI, WI)

E-Library, technical libraries and paperless solutions

## TRAINING & DEVELOPMENT

### DESCRIPTION:

Training and upskilling

### OUTPUTS:

Content development – multimedia content e.g. videos

Development of expansive troubleshooting guides

Training, mentoring and coaching

## OUR CORE BUSINESS VALUES

Integrity	Professionalism	Customer focused	Passion for what we do
<ul style="list-style-type: none"><li>• Doing the right thing</li><li>• Being able to deliver on our commitments</li><li>• Ethical</li></ul>	<ul style="list-style-type: none"><li>• Competent and adequately skilled</li><li>• Provide reliable and appropriate services</li><li>• Ensuring our best quality at all times</li></ul>	<ul style="list-style-type: none"><li>• Creating value for customers</li><li>• Collaborative, partnered approach</li><li>• Understand client needs</li><li>• Good relationship with stakeholders</li></ul>	<ul style="list-style-type: none"><li>• Always looking for new solutions and technologies</li><li>• Constantly evolving and improving the way we work</li></ul>

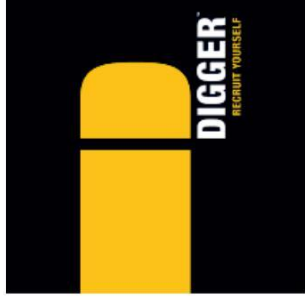
## OUR TARGET MARKET

Izinga Integrated Solutions offers maintenance management solutions for plant equipment

<b>Mining</b> <ul style="list-style-type: none"><li>• Precious metals</li><li>• Non-precious metals</li><li>• Commodities</li></ul>	
<ul style="list-style-type: none"><li>• <b>Manufacturing</b></li><li>• Smelting</li><li>• Food &amp; beverage</li><li>• Railway</li><li>• Breweries</li></ul>	<ul style="list-style-type: none"><li>• Automotive</li><li>• Selected light and medium industry sectors</li></ul>



## CLIENTS THAT WE HAVE WORKED WITH



GLENCORE



ALSTOM SIEMENS



## COMPANY DETAILS

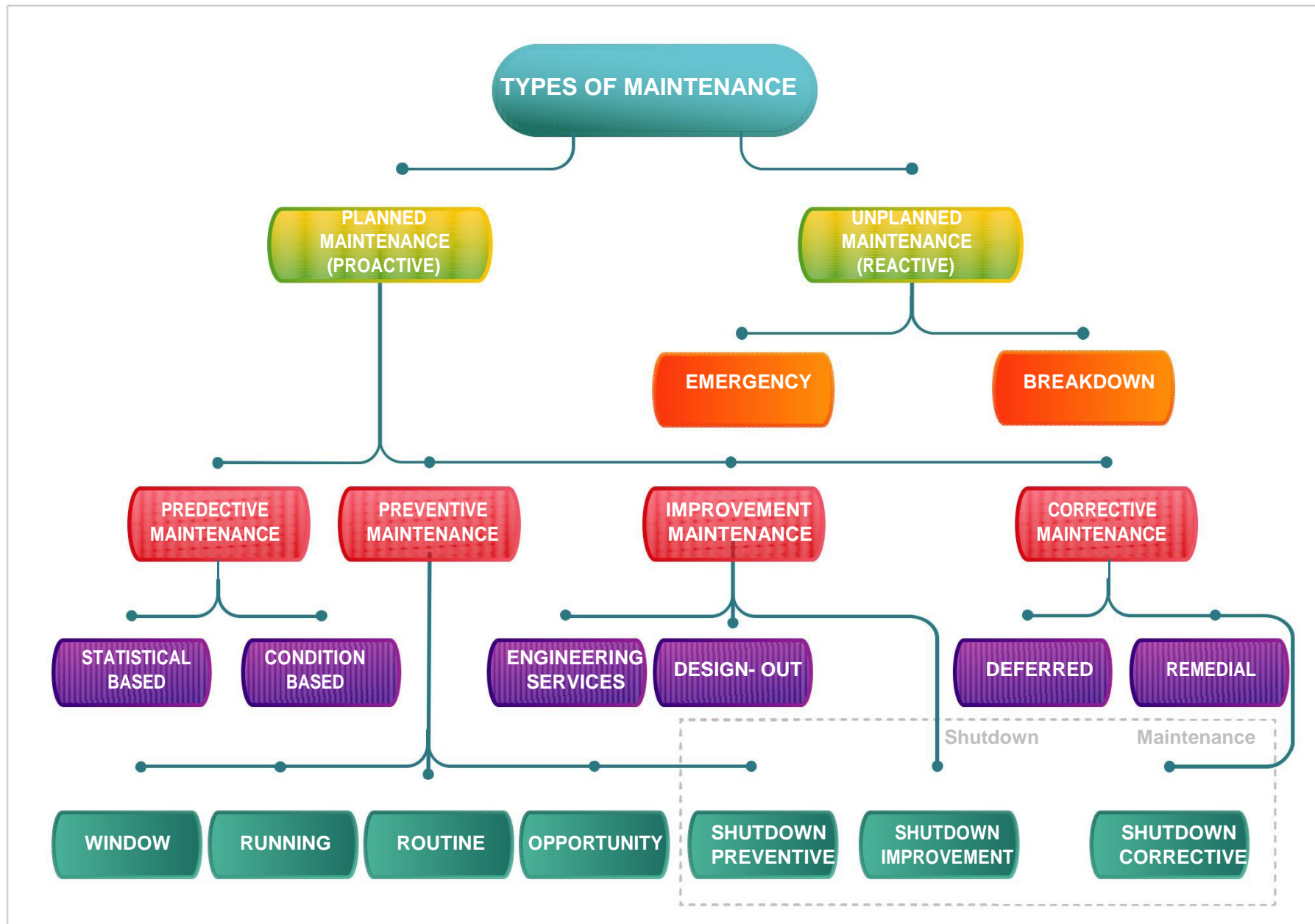
<b><u>Head Office Location</u></b>	<b>Johannesburg, South Africa</b>
<b><u>BEE Status</u></b>	Level 1
<b><u>Company Registration #:</u></b>	2018 / 493407 / 07
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## APPENDIX

- Types of maintenance
- Comparison of maintenance types



# TYPICAL TYPES OF MAINTENANCE INTERVENTIONS



# A COMPARISON OF MAINTENANCE TYPES

	Preventive Maintenance					Corrective Maintenance	
Maintenance Type	Time based maintenance	Failure finding maintenance	Condition based maintenance	Predictive maintenance	Risk based maintenance	Deferred maintenance	Emergency maintenance
Task Type	Scheduled Overhaul / Replacement	Functional test	Measurement of condition	Calculation and extrapolation Of Data	Inspection or test	Repair / replace	Repair / replace
Objective	Restore or replace following regardless of condition	Determine if hidden failure has occurred	Restore or replace based on a measured condition compared to a defined standard		Determine condition and conduct risk assessment to determine when next inspection, test or intervention is required.	Restore or replace following failure. Result of a run to failure strategy or an unplanned failure.	Restore or replace following unplanned failure.
interval	Fixed time or usage interval e.g. 1 Month, 1,000hrs or 10,000 km	Fixed time interval (can be set based on risk assessment e.g. SIL)	Fixed time interval for condition measurement / inspections		Time based interval between tasks and scope of task is based on risk assessment	Not applicable but intervention is deferred to allow for proper planning & scheduling	Immediate intervention required



# COMPANY PROFILE

Izinga Integrated Solutions (Pty) Ltd

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