

**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



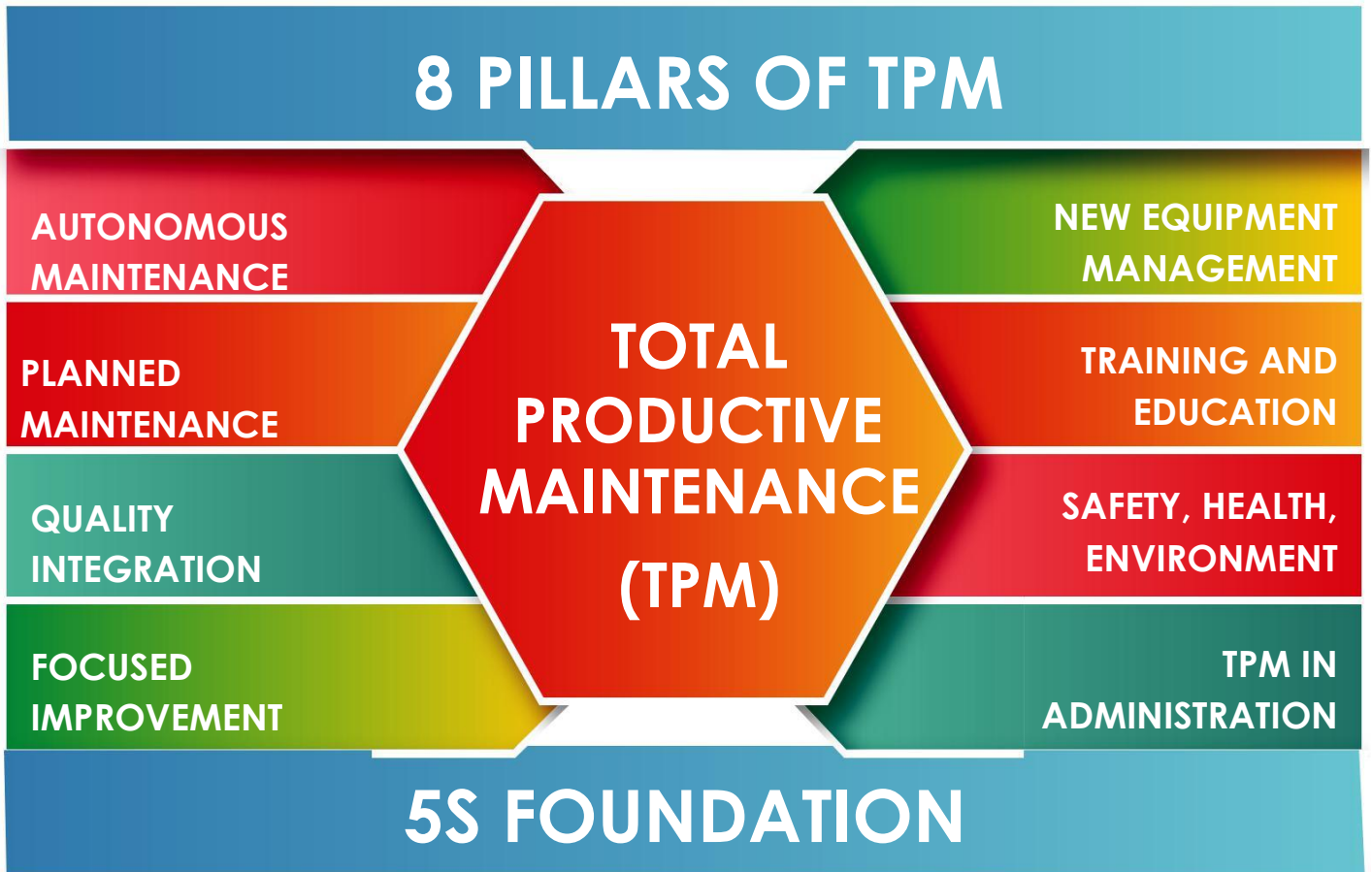
Izinga Integrated Solutions is a 100% BEE entity (Level 1) with offices in Johannesburg as well as in Kwa Zulu Natal and provide our services throughout South Africa





## 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- Outdated legacy systems not compatible with new technologies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 PRACTICES



## VALUE PROPOSITION

- We are a growing organization with a culture of being at the forefront of *cutting-edge technology and innovation*.
- We have the skill and know how to assist and support the specific and unique needs of our clients, at the high level of detail and at the highest quality level that our clients rightfully deserve.
- Our clients will have Access to Extensive knowledge and experience of Maintenance, Automation, Process Control and Instrumentation – from Fundamentals through to advanced systems and solutions
- Our clients will also have Access to Extensive industry knowledge within MMM, General Manufacturing
- The benefit of being supported with New, smart technology *solutions that interface* with a broad spectrum of existing systems and platforms.
- IoT and Industry 4.0 solutions that are selected and developed within platforms to suit your direct needs, we don't believe in over engineered solutions that don't deliver on our client's needs.
- Our approach is based on the TPM (Total Productive Maintenance) model as the foundation of all our solutions and service offerings.
- Smart, autonomous solutions development using machine learning, AI, predictive analytics and big data are models/concepts that we constantly look at as part of a digital transformation journey.
- Technical skills development and transfer using Augmented Reality and Virtual Reality solutions.
- Specialised mentorship and coaching interventions based on our client's needs.
- Strategic partnerships with technology and solutions companies
- Ecosystem of specialised and critical skills, that can be fully scalable based on our client's needs
- Ability to provide technical skills to our clients based on their needs. This can be done either on FTC or a permanent basis.

We offer a **guided and collaborative approach** to ensure that our solution delivers on our client's needs.

# OUR SERVICE OFFERINGS

## Consulting: Introductions – What we are about and what we can do for you.

- Understanding your needs and requirements through assessments and gap analysis
- APM, RCM, RBM, ROI assessments to understand the gaps and the approach to follow
- Strategic discussions on potential approaches to supporting and providing possible solutions to your problems.
- Formulation of a roadmap of possibilities based on an agreed relationship

## Maintenance & Reliability Engineering: Engineered services and solutions – based on a mutual understanding of your requirements and expectations.

- Identify asset base and develop Asset performance management solutions factoring in efficiency and operational requirements.
- Consider engineered solutions using technologies and innovations as part of a digital transformation platform – APM suite, Predictive analytics, AI and Machine learning, digital solutions around planning/scheduling/procedures & instructions (MI's, WI's)
- Analysis and/or development of equipment and asset life cycle models
- Design and development of the strategic layer inclusive of plant, process and operational views using dashboards, KPI's, asset and process monitoring tools/solutions
- Detailed, integrated implementation and execution plan with options to accommodate various implementation requirements
- Develop and optimize your automation and control platform to accommodate APM and smart maintenance management solutions.

## Data Science and Information Management: Big Data and Information (documentation) management-based solutions

- Smart capture and management of data
- Smart and customisable dashboards
- Data-driven process improvement – Acquisition, Processing and manipulation of Process data
- Enterprise Asset Management solutions including inventory and warehousing
- Database design and management
- Tracking, trending, processing of historical data
- Design and Development of a full scope of maintenance documentation (MI, WI, SOP's)
- E-Library, technical libraries and paperless solutions

## Training and Development: Ensuring the necessary skills, systems and tools are available to support the operations

- Assessments and identification of skills
- Content development – multimedia content e.g. videos, media-based tutorials
- AR/VR solutions for immersive technical training
- Development of expansive troubleshooting guides
- Training, mentoring and coaching
- Provision of Technical skills



# 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

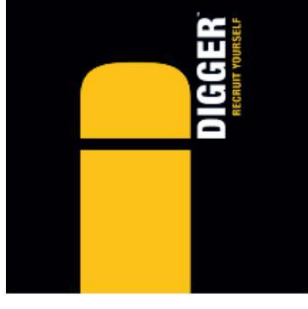
Izinga Integrated Solutions offers maintenance management solutions for plant equipment

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

CLIENTS THAT WE HAVE WORKED WITH



TOYOTA



GLENCCORE



GIBCO

ALSTOM SIEMENS



# COMPANY DETAILS

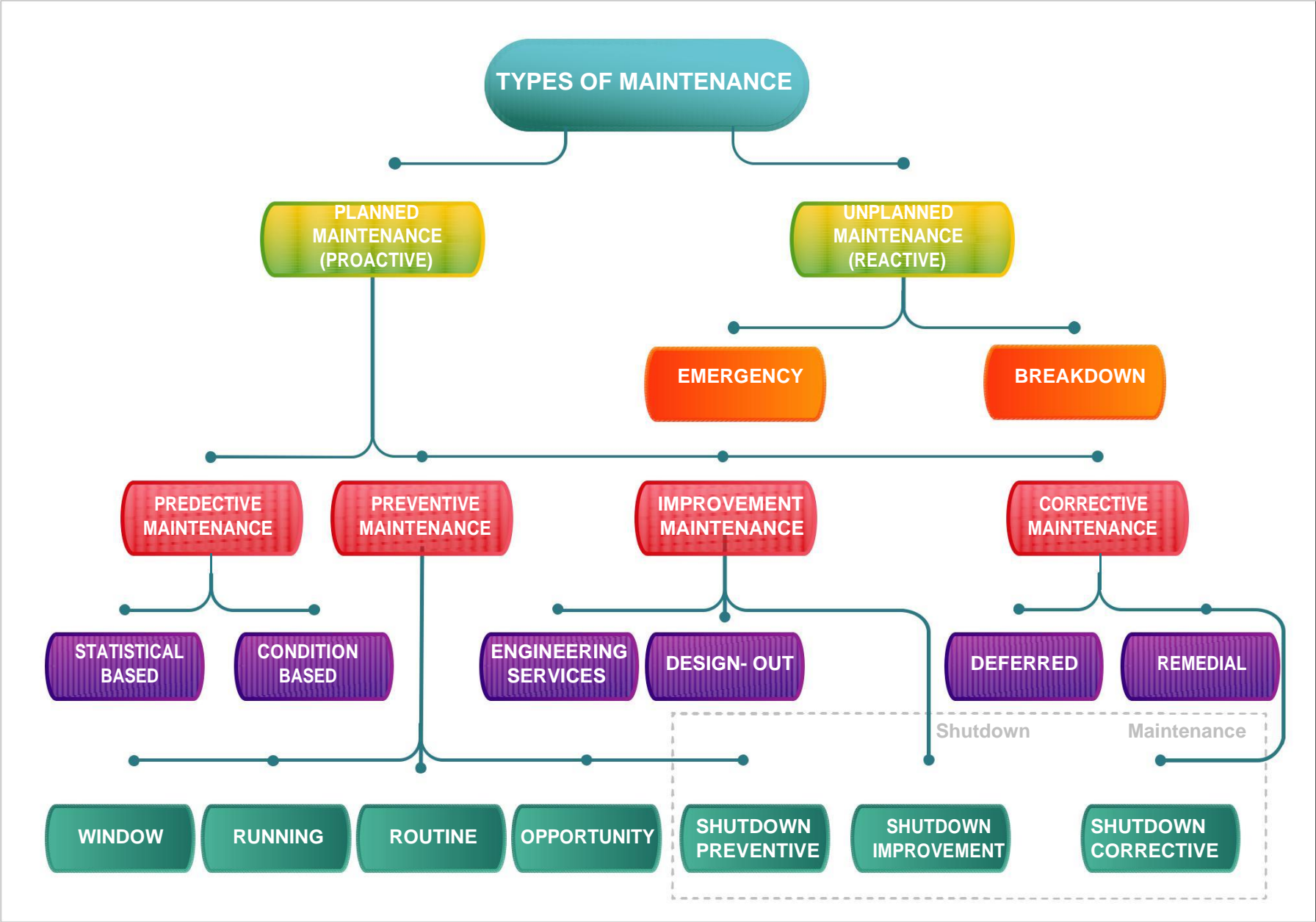
<b><u>Head Office Location</u></b>	<b>Johannesburg, South Africa</b>
<b><u>BEE Status</u></b>	Level 1
<b><u>Company Registration #:</u></b>	2018 / 493407 / 07
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## APPENDIX

- 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



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