



# ASSET INTEGRITY MANAGEMENT SOLUTIONS



**LEADING THE WAY**  
IN ASSET INTEGRITY MANAGEMENT & INDUSTRIAL SOLUTIONS

[www.dgc-africa.com](http://www.dgc-africa.com)

SOUTH AFRICA

ZAMBIA

DEMOCRATIC REPUBLIC OF CONGO

MADAGASCAR

ZIMBABWE

BRAZIL

CHINA



**DGC AFRICA**, a division of the Dickinson Group of Companies, is a leading provider of **Asset Integrity Management (AIM)** solutions across sub-Saharan Africa. With a rich heritage spanning 115 years, **DGC AFRICA** has established itself as a trusted partner in the mining, metals smelting, mineral processing, and various other heavy industries.

OUR COMPREHENSIVE RANGE OF AIM SERVICES  
**ENSURES THE TECHNICAL  
INTEGRITY, OPERATIONAL  
EFFICIENCY, AND SAFETY  
OF A WIDE RANGE OF ASSETS  
THROUGHOUT THEIR LIFECYCLE.**

**DGC AFRICA's** commitment to innovation, safety, and customer-centric solutions has positioned us at the forefront of industrial services in Africa. Our extensive experience, coupled with our deep understanding of local markets, enables us to deliver tailored, high-quality solutions that meet the unique challenges of our diverse client base.

In today's competitive industrial landscape, every operational minute counts. Unplanned downtime can significantly impact financial health, safety records, and environmental compliance. **DGC AFRICA's** effective AIM strategies offer a holistic approach to asset management, ensuring assets perform optimally and comply with strict standards, thus safeguarding workers, the environment, and your bottom line.



## **PARTNERING FOR EXCELLENCE: DGC AFRICA & EAMS**

To further enhance our Asset Integrity Management capabilities, **DGC AFRICA** has formed a strategic alliance with **EAMS Africa (EAMS)**. **EAMS** is a recognized leader in asset management software and consulting services, bringing cutting-edge technology and international best practices to our AIM solutions.

This powerful partnership combines **DGC AFRICA's** deep understanding of African industrial landscapes with **EAMS's** deep asset management experience, innovative software solutions and global expertise. Together, we offer a unique blend of local knowledge and world-class asset management capabilities, providing our clients with unparalleled support in optimizing their asset performance, reducing risks, and driving operational excellence.

AT DGC AFRICA AND EAMS,  
OUR ASSET INTEGRITY MANAGEMENT SOLUTIONS  
**ARE DESIGNED TO ENHANCE  
PERFORMANCE, SAFETY, AND  
RELIABILITY OF CRITICAL INDUSTRIAL ASSETS  
ACROSS DIVERSE SECTORS.**  
LEVERAGING STATE-OF-THE-ART TECHNOLOGY  
**AND DEEP INDUSTRY EXPERTISE,**  
OUR COMBINED TEAMS DELIVER SPECIALIZED AIM SERVICES  
**TAILORED TO THE UNIQUE CHALLENGES  
OF EACH FACILITY.**



# OUR COMPREHENSIVE ASSET INTEGRITY MANAGEMENT SOLUTIONS



**MAINTENANCE, REPAIR & OPERATIONAL (MRO) SPARES OPTIMIZATION**

**MAINTENANCE PLANNING & CONDITION MONITORING**

**CONSULTING SERVICES & ASSET VERIFICATION**

**TRAINING SOLUTIONS & CMMS INTEGRATION**

**MAINTENANCE SOFTWARE & WIRELESS MONITORING**

**MAINTENANCE ANALYTICS**

**REGULATORY COMPLIANCE MANAGEMENT**

**RISK-BASED INSPECTION (RBI)**

**RELIABILITY-CENTRED MAINTENANCE (RCM)**

**FAILURE MODES, EFFECTS, & CRITICALITY ANALYSIS (FMECA)**

# MAINTENANCE, REPAIR & OPERATIONAL (MRO) SPARES OPTIMIZATION



STREAMLINING PROCESSES  
**TO MAINTAIN**  
OPERATIONAL EFFICIENCY  
AND REDUCE UNNECESSARY  
**EXPENDITURE**



Our **MRO Optimization service** focuses on creating a balanced approach that maintains operational readiness without over-stocking or under-preparing for potential equipment failures. We analyze historical data and usage patterns to predict future needs accurately, ensuring strategic stocking of essential spares and minimizing the risk of prolonged downtime due to parts unavailability.

By optimizing repair workflows, we standardize procedures and train personnel, speeding up repair times and ensuring consistency and quality in maintenance activities. This approach not only reduces costs but also improves overall equipment effectiveness (OEE) and extends asset lifespan.

## MAINTENANCE PLANNING & CONDITION MONITORING

Our **Advanced Analytics Tools** empower process and maintenance engineers to perform complex data analysis, regardless of their level of knowledge in data science. These tools apply statistical methods of machine learning and artificial intelligence to data pools, finding patterns of particular interest and enabling the diagnosis and prediction of plant issues with the propensity for recurrence.

By implementing condition monitoring, we help you transition from reactive to predictive maintenance. This shift allows for early detection of potential failures, reducing unplanned downtime and extending equipment life. Our approach integrates various monitoring techniques, including vibration analysis, oil analysis, thermography, and ultrasonic testing, providing a comprehensive view of asset health.



LEVERAGING ADVANCED  
**ANALYTICS FOR**  
COMPLEX DATA  
ANALYSIS AND  
PREDICTIVE MAINTENANCE



# CONSULTING SERVICES & ASSET VERIFICATION



PROVIDING EXPERT  
**INSIGHTS**  
AND ENSURING  
ACCURATE ASSET  
**CATALOGUING**



Our consulting services offer specialized knowledge in AIM, providing insights into best practices, identifying areas for improvement, and assisting in implementing advanced asset management strategies. Our asset verification process ensures that all physical assets are accurately catalogued and their condition assessed, allowing for more effective planning and management.

We conduct thorough audits of your current asset management practices, identifying gaps and opportunities for improvement. Our team of experts works closely with your staff to develop customized AIM strategies that align with your business objectives, regulatory requirements, and industry best practices.

## TRAINING SOLUTIONS & CMMS INTEGRATION

We offer tailored training programs to equip personnel with the skills needed to effectively utilize Computerized Maintenance Management Systems (CMMS). This integration of CMMS with targeted training programs enhances AIM capabilities, leading to improved plant reliability, maintenance planning and scheduling, asset tracking, and inventory management.

Our training solutions cover a wide range of topics, from basic AIM principles to advanced predictive maintenance techniques. We employ a mix of classroom instruction, hands-on workshops, and e-learning modules to cater to different learning styles and ensure knowledge retention. The CMMS integration ensures that your team can effectively leverage technology to streamline maintenance processes, improve data accuracy, and make informed decisions.



ENHANCING WORKFORCE  
**CAPABILITIES AND**  
**INTEGRATING**  
ADVANCED MANAGEMENT  
**SYSTEMS**



# MAINTENANCE SOFTWARE & WIRELESS MONITORING



**IMPLEMENTING  
CUTTING-EDGE  
TECHNOLOGIES  
FOR REAL-TIME ASSET  
CONDITION MONITORING**



**Our maintenance software, reliability modeling and wireless monitoring solutions** offer real-time visibility into asset conditions, enabling the early detection of potential issues and swift action to prevent failures. These systems integrate seamlessly with existing AIM frameworks, enhancing the responsiveness of maintenance teams to emerging challenges.

We implement IoT sensor and advanced data collection systems to provide continuous monitoring of critical assets. This real-time data is fed into our sophisticated analytics platforms, allowing for immediate alerts and trend analysis. The wireless nature of these systems means they can be deployed in even the most challenging industrial environments, providing crucial insights without the need for extensive wiring or infrastructure changes.

## MAINTENANCE ANALYTICS

**By analysing patterns and trends in asset performance data, our maintenance analytics service** helps identify underlying issues, predict potential failures, and tailor maintenance schedules to address specific needs. This analytical approach supports data-driven decision-making, optimizing maintenance interventions and improving asset reliability and performance.

Our advanced analytics platforms use machine learning algorithms to process vast amounts of data, identifying subtle patterns that might escape human observation. This capability allows for highly accurate failure predictions, optimal maintenance scheduling, and continuous improvement of asset performance. We provide intuitive dashboards and reporting tools that make complex data easily understandable, enabling quick and informed decision-making at all levels of your organization.



**TRANSFORMING  
RAW DATA  
INTO ACTIONABLE  
INSIGHTS  
FOR OPTIMIZED  
ASSET MANAGEMENT**



# REGULATORY COMPLIANCE MANAGEMENT



ENSURING ADHERENCE  
**TO LEGAL AND  
ENVIRONMENTAL  
STANDARDS**



**Our regulatory compliance management service** facilitates adherence to stringent regulations by ensuring that assets are maintained and operated within prescribed safety and environmental guidelines. We help avoid legal penalties and fines while supporting sustainable business practices and reinforcing your commitment to corporate responsibility.

We stay abreast of the latest regulatory changes in your industry and region, ensuring your AIM practices always meet or exceed current standards. Our compliance management system provides a clear audit trail, simplifying reporting and inspections. By integrating compliance into your overall AIM strategy, we help you turn regulatory requirements into a competitive advantage, enhancing your reputation and opening new business opportunities.

## **RISK-BASED INSPECTION (RBI)**

**Our RCM program** identifies the most critical assets and potential failure modes, allowing for the development of targeted maintenance strategies. This approach optimizes maintenance efforts, reduces costs, and improves overall system reliability.

We conduct thorough analyses of your systems, identifying critical functions and the assets that support them. By understanding how assets can fail and the consequences of those failures, we develop maintenance strategies that balance risk, cost, and performance. Our RCM approach identifies the appropriate mix of tactical options, including predictive, condition-based, time-based, and run-to-failure strategies, optimized for your specific operational context.



**FOCUSING  
MAINTENANCE  
EFFORTS  
ON CRITICAL SYSTEM  
FUNCTIONS**





# RELIABILITY-CENTRED MAINTENANCE (RCM)



**FOCUSING**  
MAINTENANCE EFFORTS  
**ON CRITICAL**  
SYSTEM FUNCTIONS

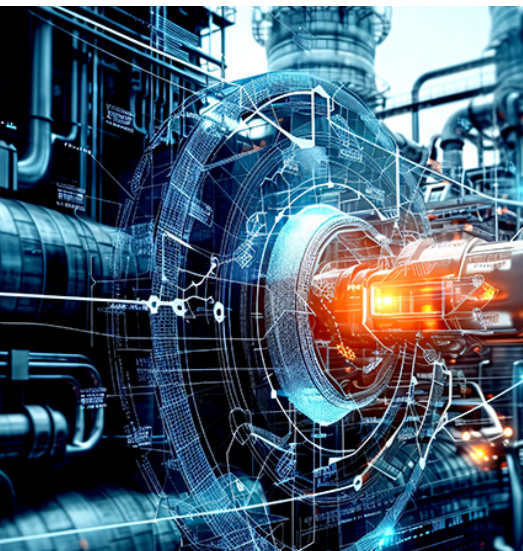


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## FAILURE MODES, EFFECTS, & CRITICALITY ANALYSIS (FMECA)

**Our FMECA service** provides a systematic approach to identifying potential failure modes, their causes, and their effects on system performance. This analysis helps prioritize maintenance and improvement efforts, reducing the risk of unexpected failures and enhancing overall system reliability. We conduct workshops with your technical experts to identify all potential failure modes for critical assets. Each failure mode is then analysed for its effects on the system, local effects, and end effects. We assess the severity, occurrence, and detectability of each failure mode to calculate a Risk Priority Number (RPN). This comprehensive analysis forms the basis for targeted improvement actions, from design changes to maintenance strategy adjustments, ensuring resources are focused on the most critical issues.



**IDENTIFYING**  
**POTENTIAL FAILURE**  
MODES AND THEIR IMPACTS  
**ON SYSTEM**  
**PERFORMANCE**



# THE BENEFITS OF IMPLEMENTING AIM WITH DGC AFRICA AND EAMS

## ENHANCED SAFETY

Reduce accidents and operational failures through systematic management of asset integrity, creating a safer work environment and protecting your most valuable asset - your workforce.

## OPERATIONAL EXCELLENCE

Minimize unplanned downtime and maximize asset availability for continuous, efficient production. Our AIM solutions help you achieve and maintain peak performance, giving you a competitive edge in your industry.

## COST EFFICIENCY

Avoid substantial costs associated with asset failure and extend equipment lifecycle. By optimizing maintenance strategies and preventing catastrophic failures, we help you reduce both direct maintenance costs and the hidden costs of inefficiency and downtime.

## REGULATORY COMPLIANCE

Ensure adherence to legal and environmental standards, avoiding penalties and supporting sustainable practices. Our compliance-focused approach helps you navigate complex regulatory landscapes with confidence, turning compliance from a challenge into a strategic advantage.

## STRATEGIC ADVANTAGE

Make informed decisions about asset management, investment in new technologies, and operational improvements. Our data-driven approach provides you with the insights needed to optimize your operations, plan for the future, and stay ahead of industry trends.

## ELEVATE YOUR ASSET INTEGRITY MANAGEMENT

Contact us today to schedule a comprehensive assessment of your assets and systems. Our experts are ready to develop a tailored Asset Integrity Management solution that will optimize your operations, enhance safety, and drive long-term efficiency.

**TRANSFORM YOUR ASSET PERFORMANCE  
LET'S BUILD A MORE EFFICIENT  
AND SUSTAINABLE FUTURE TOGETHER.**

## TAKE THE NEXT STEP

Through our Asset Integrity Management Solutions, **DGC AFRICA and EAMS** ensure the technical upgrading of facilities while fostering a culture of innovation and environmental stewardship. Join us to set the industry standard, enhance productivity, and promote sustainability across various industrial sectors. Partnering with **DGC AFRICA and EAMS** means investing in the future of your operations, where optimized asset performance, enhanced operational efficiency, and reliable performance are guaranteed.

Discover how our holistic approach to Asset Integrity Management can revolutionize your operations, reduce risks, and drive sustainable growth. Let **DGC AFRICA and EAMS** be your partners in achieving operational excellence and securing your competitive edge in the market.



# THE POWER OF PARTNERSHIP

By choosing **DGC AFRICA** and **EAMS** for your Asset Integrity Management needs, you're not just getting a service provider – you're gaining a powerful ally in your quest for operational excellence.

**Our partnership brings together:**

**DGC AFRICA's** extensive experience and deep understanding of African industrial contexts.

**EAMS's** cutting-edge asset management software and global best practices.

**A comprehensive suite of services** that cover every aspect of asset integrity management.

**A team of experts** committed to driving innovation and delivering tangible results.

## EXPERIENCE THE SYNERGY OF LOCAL EXPERTISE AND GLOBAL INNOVATION

Let **DGC AFRICA** and **EAMS** transform your asset management practices and propel your business towards a more efficient, safe, and sustainable future.





# OUR OFFICES

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