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MATRIX

**Your Partner in
Innovation, Control and
Operational Safety**

Smart Solutions. Safer Operations.



www.matrixteam.africa



Introduction

Matrix Design Africa has delivered intelligent business solutions for over 40 years. Our products and services empower organisations across industries to work smarter, safer, and more efficiently.

Our flagship ERP system, **DeltaERP**, is a cost-effective, modular platform designed to streamline business processes and enhance information management. Our digital Personal Protective Equipment (PPE) management solution, **ppe2go**, enables full control of PPE entitlements, issues, and costs in a simple, user-friendly interface.

Our portfolio includes cutting-edge safety and operational technologies such as **IntelliZone**, an advanced proximity detection system, and **OmniPro Vision AI**, a real-time monitoring and analytics platform that enables proactive decision-making and risk mitigation in high-risk environments.

In addition to our software offerings, we provide expert services in **Financial Modelling**, **Quantitative Risk Analysis**, **Non-Financial Reporting**, and **Market Research**. We also offer **Project Management** and **Implementation** services, as well as our **CTS (Call Tracking System)** solution.

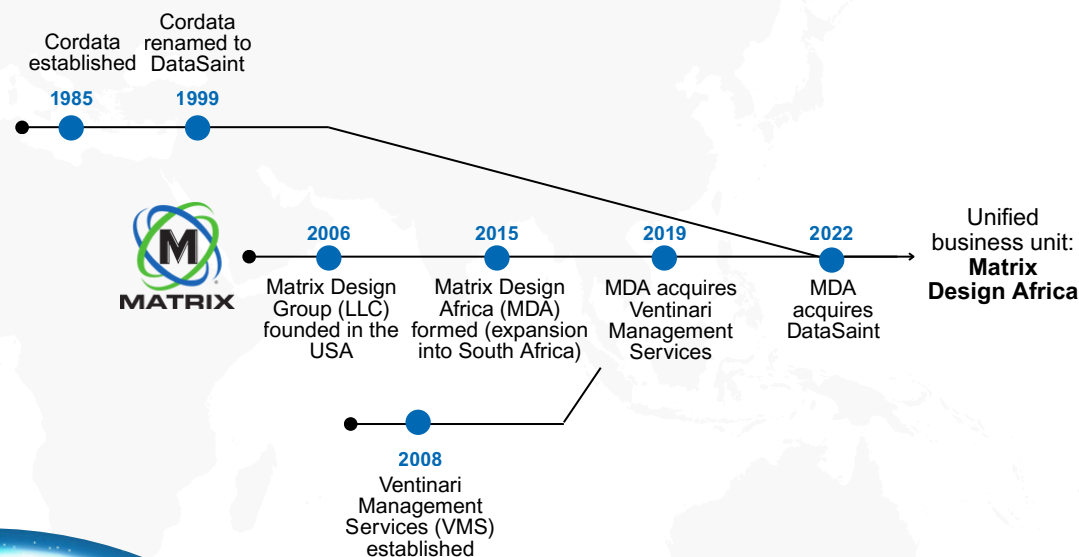
We proudly uphold our mission:

Creating Intelligent Business and Safety Solutions

Matrix Design Africa was formed in 2015 as part of Matrix Design Group LLC (under Alliance Resource Partners, L.P.), with a strategic vision to expand globally. In 2019, MDA acquired **Ventinari Management Services**, followed by **DataSaint** in 2022 - strengthening our expertise in consulting and technology.

Today, we serve clients across North America, South America, Sub-Saharan Africa, Europe, Canada, and Australia.

Our journey spans decades of innovation through legacy brands and strategic acquisitions. The timeline below highlights the milestones that shaped who we are today.



Matrix Design Africa is based in Pretoria, South Africa. Matrix Design Group's headquarters is located in Newburgh, Indiana (USA), with five field offices across the United States and additional offices in Australia.

What is ppe2go® ?

In any organisation, personal protective equipment (PPE) plays a critical role in ensuring employee safety and is often a statutory requirement. Employers must not only provide such safety equipment but also keep detailed records of all PPE issued, including intervals and quantities used. **ppe2go** is the solution that gives enterprises full control over their PPE, providing detailed records while maintaining financial oversight.



ppe2go includes standalone kiosks as a value-adding optional extra, which can be installed in convenient locations such as change rooms, lamp rooms, and canteens. These **self-service kiosks** have a robust design and are manufactured from high-quality mild steel, powder-coated for a long-lasting and durable finish.

Employees can navigate through a self-service, user-friendly portal to inquire about or request their own PPE items. Whether you prefer to use fingerprints, clocking cards, or facial recognition, biometric identification ensures accurate transaction recording for individuals.

A PPE Entitlement or Code of Practice (COP) can be set up at an employee occupational level, making it easy to maintain bulk data. Bulk issues, contractor issues, or exception issues can be routed for manual or electronic workflow approvals. Non-PPE related items can also be linked to "special" COPs if required.

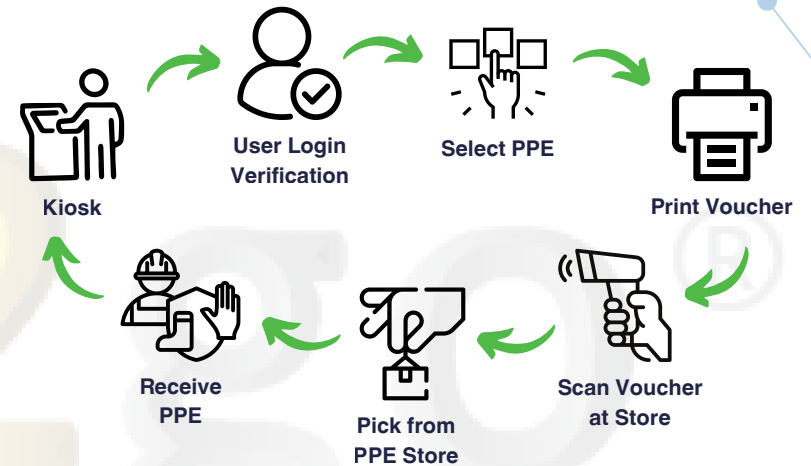
Various generic inquiry tools are available, offering a vast range of historical, statistical, trending, and consumption-based reporting options.



TOTAL VISIBILITY, TOTAL CONTROL - PPE MANAGEMENT MADE EASY.



Functional Process



Benefits

- ✓ ppe2go's user-friendly design - both in software and optional self-service kiosks - caters to all literacy levels, using clear icons and touch-screen navigation. Kiosks help reduce queues at PPE issuing points.
- ✓ ppe2go drives cost savings by enforcing PPE controls, limiting excessive use, and allowing only validated exceptions. Accurate forecasting also supports lower stock holding.
- ✓ ppe2go is an all-in-one solution for managing and controlling safety gear through a powerful inventory management system.





IntelliZone®

PROXIMITY DETECTION

The **MOST ADVANCED** proximity detection system operating worldwide in underground mines

The Matrix IntelliZone® system creates customised Caution, Shutdown and Operator Zones around mobile equipment, detecting workers even in low-visibility areas. Its components are durable, easy to use and simple to maintain.

- ✓ For all section equipment and light-duty vehicles.
- ✓ Proven in coal mines globally.
- ✓ Robust & compact locators.
- ✓ Precise worker location & dynamic zones.
- ✓ SharpZone™ technology minimises false alarms and allows long-range, through-curtain detection.
- ✓ Shaped zones allow precise location of support workers without reducing production.

The Matrix IntelliZone proximity detection system helps train personnel to stay clear of danger zones present around mobile equipment. The system is designed for use on all brands of continuous miners, shuttle cars and other mobile underground equipment or vehicles.

- **Proven Technology in U.S. Coal Mines** – first installed in 2009, more than 90% of all US underground coal mines operating with proximity detection systems use Matrix technology.
- **Highly Reliable** – machine-integrated “Drivers” are compact and robust for maximum uptime and manufactured for harsh operating conditions.
- **Service & Support** – all Matrix IntelliZone systems are backed by Matrix’s outstanding field service technicians and distribution network.



- **Data Logging** – IntelliZone is the only MSHA-approved prox system that allows precise personnel location and data logging.
- **MSHA, SANS 60079-0/1/11/18 and IECEx certified**

REVOLUTIONISE SITE SAFETY WITH INTELLIGENT, REAL-TIME PROXIMITY DETECTION.

IntelliZone Locator

The **IntelliZone Locator** uses audible and visual alerts to warn personnel of potential danger. The Locator is compact, lightweight, simple to use and powered by a rechargeable battery. All IntelliZone Locators for underground coal mines are Intrinsically Safe (IS).

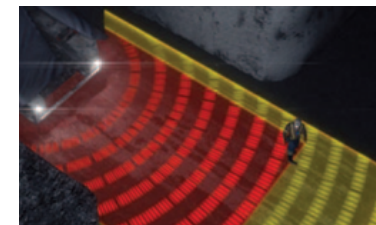


SharpZone™ Technology for Precise Programmable Awareness Zones

Matrix’s leading-edge SharpZone technology creates equipment-specific straight line and angled safety areas for the most effective Caution and Shutdown zones. These zones help protect miners from mobile equipment injuries and minimise nuisance warnings or shutdown.

Zones Extend as Speed Increases

As shuttle car speed increases, the zones increase in length to accommodate the longer required stopping time. The zones can “see” through barrier curtains, which helps protect workers.



OmniPro[®]



OmniPro[®] Vision AI Collision Warning System

In high-risk environments where even a split-second mistake can lead to serious harm, having a cutting-edge collision warning system is essential. **OmniPro[®] Vision AI** uses **award-winning technology** to enhance safety and minimise incidents in mining operations through advanced, intelligent features.

Fast, Precise Detection of Personnel and Machinery

- Each unit supports up to five configurable alert zones tailored to your site's needs
- Detects and notifies of critical hazards including workers, vehicles, and essential objects - no tags necessary
- Recognises individuals in various postures and wearing personal protective equipment
- Integrated reporting with time-stamped image capture
- Designed to minimise false or nuisance alerts

What Safety Risks are Present in Your Workplace?

- Limited visibility for equipment operators
- Tight or confined travel pathways
- Obstructed or blind corner areas
- Busy zones with frequent vehicle and foot traffic
- Operators who may become complacent over time
- Third-party or visitor vehicles on-site
- Recently onboarded or untrained personnel
- Fatigue-related lapses, particularly near shift changes
- Team members who could benefit from enhanced situational awareness
- Previous incidents involving pedestrian contact
- History of severe injuries or fatalities on-site

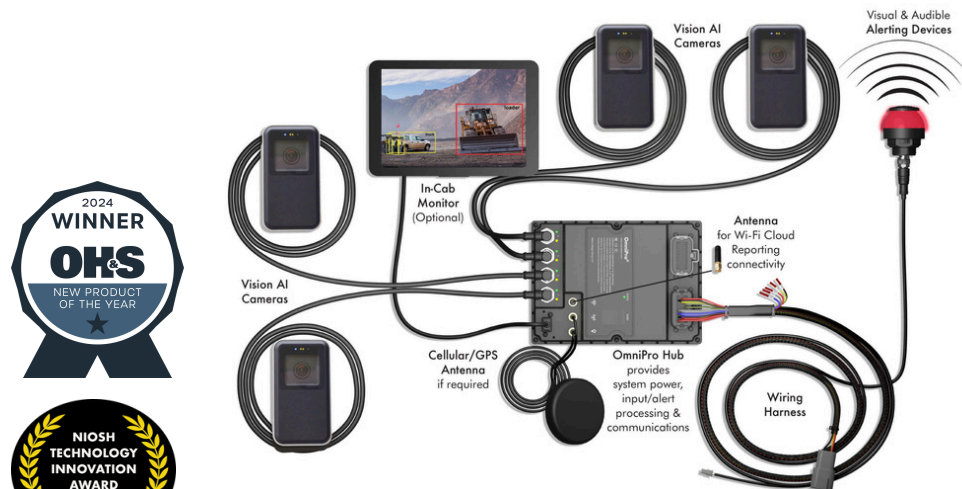


SMARTER CAMERAS. SHARPER INSIGHTS. SIMPLIFIED.

- Up to five customisable detection zones per camera, each with unique actions
- Tag-free detection of people, vehicles, and key objects
- Wi-Fi, LTE, Bluetooth & GPS connectivity for cloud access and smart reporting



OmniPro[®] Vision Ai Hardware Package For All Mobile Equipment



Up to 4 cameras for 360° blind-spot coverage



Discover DeltaERP

DeltaERP is a comprehensive ERP solution with functionality tailored to enhance the control and performance of your business, suitable for capital-intensive industries like mining or manufacturing, as well as any other organisations.

Our implementation process capitalises on our experience across diverse industries to optimise solutions specific to your business requirements.

Comprehensive Integrated Modules

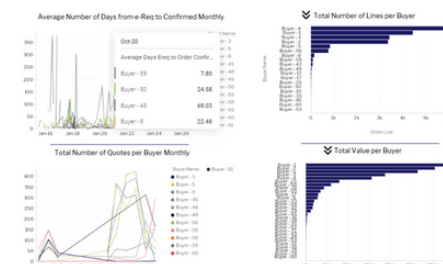


AN ERP SOLUTION OPTIMISING YOUR BUSINESS CONTROL AND PERFORMANCE.

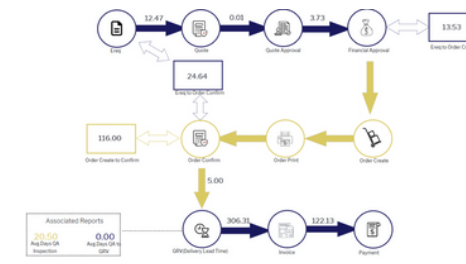
BI Dashboards

DeltaERP **BI Dashboard** transforms raw data into real-time, visual insights through fully customisable dashboards across every business area - operations, finance, procurement, and beyond. Designed to support faster, smarter decisions, these dashboards help you track KPIs, monitor trends, and maintain full visibility and control across your organisation.

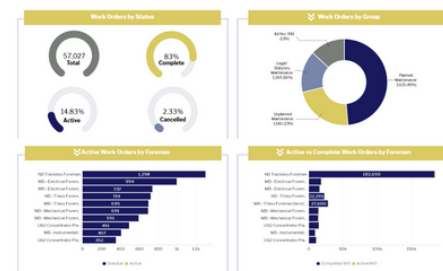
Buyer Performance



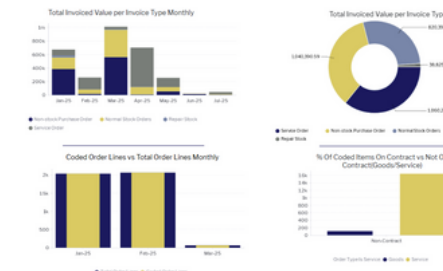
Procure to Pay Process



Work Order Management



Stock Measurements



and MORE!

Project Management Office

At Matrix Design Africa, project management is at the heart of how we deliver results. Our team follows a clear methodology and applies best practices in risk management, compliance, and continuous training - ensuring projects are delivered on time, within scope, and to the highest standard.

Methodology:

Our project delivery is guided by established processes and procedures that follow a structured lifecycle:

- **BUILD**
- **TEST**
- **TRAIN**
- **GO-LIVE**

This phased approach ensures that each stage of the project is carefully planned, executed, and aligned with client expectations.

Training & Development:

We invest in continuous learning to strengthen our project delivery.

- **Improved Project Success Rates**
Our training equips project managers with the skills needed to effectively plan, execute, and close projects, resulting in consistently successful outcomes.
- **Enhanced Efficiency & Productivity**
Well-trained project managers help streamline processes, improve time management, and boost overall team productivity.
- **Stronger Communication & Collaboration**
Communication is critical to project success. Our training focuses on fostering clear, consistent communication and collaboration across teams.
- **Adaptability & Change Readiness**
Continuous learning ensures our project managers remain agile and adaptable in dynamic environments - ready to respond to evolving challenges and opportunities.



BRINGING STRUCTURE, CLARITY, AND ACCOUNTABILITY TO EVERY PROJECT.



Risk Management:

Risk management is a vital part of our project support framework. We follow a systematic approach to identify, assess, and prioritise risks, followed by coordinated action to minimise, monitor, and control their impact. This proactive method helps our teams and Channel Partners navigate uncertainty and drive projects forward with confidence.

Compliance Categories:

Compliance is key to maintaining the integrity and success of every project. We align with multiple categories of compliance to ensure all activities meet internal and external standards:

- **Regulatory Compliance**
Adhering to laws, regulations, and industry-specific standards, including data protection and environmental requirements.
- **Contractual Compliance**
Fulfilling obligations outlined in stakeholder agreements and ensuring all deliverables meet contractual terms.
- **Organisational Compliance**
Aligning with internal policies, governance frameworks, and quality standards specific to Matrix Design Africa.
- **Ethical Compliance**
Upholding principles of honesty, integrity, and fairness in all project interactions and decisions.
- **Quality Compliance**
Ensuring deliverables meet predefined quality criteria through robust assurance processes and a commitment to continuous improvement.

Consulting

In addition to our core solutions, Matrix Design Africa offers a range of specialised services designed to support our clients' broader strategic, financial and operational goals. Each service is delivered with the same commitment to accuracy, insight and impact - ensuring our clients are equipped to make confident, data-driven decisions.

Quantitative Risk Analysis

At MDA, we integrate quantitative risk analysis into clients' operational and financial models, enhancing their ability to make resilient, data-driven decisions. Through structured collaboration with project and operational teams, we identify the variables with the greatest influence on key outcomes and map the risk events most likely to impact them.

Our facilitated QRA workshops transform static assumptions into dynamic inputs, defining value ranges rather than absolutes. Leveraging Monte Carlo simulations, we deliver risk-adjusted forecasts, detailed sensitivity analyses, and confidence intervals that reveal the true risk landscape behind every decision. This added layer of strategic insight equips organisations to optimise capital allocation, prioritise resources, and invest with greater precision and confidence.

Market Research

At MDA, we deliver comprehensive market research and analytical insights that empower clients to navigate complex markets with clarity and confidence. Our services go beyond data collection - we uncover market dynamics, quantify opportunities, benchmark competitors, and identify emerging trends critical to shaping strategic direction.

By transforming data into actionable intelligence, we help organisations sharpen their competitive edge, anticipate customer needs, and align business strategies with evolving market realities. Our research becomes the foundation for informed, forward-looking decisions that drive sustainable growth and market leadership.



SPECIALIST SUPPORT SERVICES TO STRENGTHEN YOUR STRATEGY.

Financial Modelling

At MDA, we deliver sophisticated financial modelling solutions designed to drive strategic decision-making and long-term value creation. Our models provide precise, adaptable frameworks for Life of Mine (LoM) scenario planning, cost analysis, and the development of critical financial statements, including Income Statements, Balance Sheets, and Cash Flow Statements.

We support clients across the full project lifecycle - from concept and pre-feasibility through to feasibility studies - as well as in conducting robust company valuations and impairment assessments. By applying cutting-edge modelling practices and offering expert insights on existing data and model architecture, our team ensures clients gain actionable intelligence.

Every model we craft is tailored to the client's specific objectives, equipping leadership teams with the foresight and clarity needed to evaluate scenarios, mitigate risks, and optimise investment strategies.

Non-Financial Reporting

At MDA, we empower clients to deliver compelling, insight-driven presentations and reports for Boards, investors, and other key stakeholders. Beyond simply preparing materials, we help organisations transform raw data into structured, high-quality information that serves as the foundation for reliable, efficient, and repeatable reporting processes.

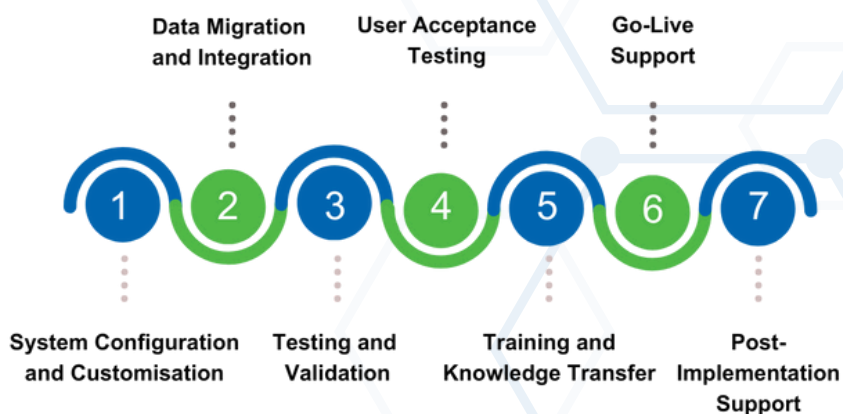
Our team designs and automates tailored internal reporting systems aligned with client priorities and strategic objectives, ensuring that key performance indicators (KPIs) are not just tracked - but actively drive accountability, transparency, and informed decision-making across the enterprise.

Implementation Services

At Matrix Design Africa, we don't just deliver systems - we implement solutions that empower teams, streamline processes, and ensure long-term success.

Our dedicated Implementation Team works alongside your organisation to ensure every step of the transition to a new software system is seamless, practical, and tailored to your needs.

From initial setup through to post-launch support, we handle the technical detail and the human experience - helping your team adopt the system with confidence and clarity.



1 System Configuration & Customisation

Every business operates differently, which is why we never take a one-size-fits-all approach. Our team configures your new system to match your internal processes and workflows, and we apply customisation where necessary to ensure it fits your unique operational needs.

2 Data Migration & Integration

We take care of securely transferring your existing data into the new system, maintaining accuracy and integrity throughout the process. Where necessary, we also integrate the system with your existing platforms and applications, ensuring seamless data flow and business continuity.

TURNING SOFTWARE INTO SOLUTIONS THAT WORK FOR YOU.

3 Testing & Validation

Before going live, we thoroughly test the system to ensure everything functions as expected. This includes technical validation, functional testing, and system checks - all designed to catch potential issues before they affect your operations.

4 User Acceptance Testing (UAT)

Your users know best what they need. That's why we include them in the process through UAT - where real end-users test the system in practical, real-world scenarios. This step confirms that the software is user-friendly, functional, and ready for daily use. Any final issues are identified here, and depending on their severity, will be resolved before go-live.

5 Training & Knowledge Transfer

A successful system is one your team feels confident using. We provide hands-on training for both end-users and system administrators, equipping them with the knowledge they need to navigate, manage, and maintain the system from day one.

6 Go-Live Support

When it's time to go live, we're on the ground with you. Our team is available to troubleshoot issues, provide support, and ensure that the transition happens smoothly with minimal disruption to your operations.

7 Post-Implementation Support

Our support doesn't end at go-live. We continue to monitor system performance, gather user feedback, and make improvements where needed. This ongoing involvement ensures your system keeps delivering value - not just on day one, but in the long run.






Call Tracking System

CTS (Call Tracking System) is a powerful helpdesk and resource management tool used for logging all task-related activities. It also enables the retrieval of timesheet information for management, productivity tracking, and cost measurement purposes.

A key feature of CTS is its ability to streamline task and resource management. The helpdesk acts as the input source, while the timesheet module delivers results for task tracking and resource utilisation.

Process Overview:

- 1** A user sends an email request to the helpdesk.
- 2** The request is analysed and a task is created.
- 3** A resource is assigned to the task.
- 4** The task is completed.
- 5** Timesheet information is generated for reporting and compliance.



YOUR ALL-IN-ONE COMMAND CENTER FOR TASK AND RESOURCE TRACKING.

Key Features:

- Secure and password-less (authenticated token) access.
- Colour-coded task priority for easy identification.
- Role-based access control to ensure users can only access the features they need.
- Advanced task filtering and status tracking.
- Maintenance tools to manage resources and client records.
- Timesheets to support compliance, productivity monitoring, and billing.
- Enables the client/channel partner to view/track progress on their tickets.

Benefits:

- Centralised communication: all related emails are linked to each task for quick reference.
- Comprehensive reporting options.
- All relevant documentation can be included in emails linked to the call or task.
- Role-based access control to ensure users can only access the features they need.
- Online enquiry functions allow performance and historical data to be easily retrieved.
- Streamlines quotation process.
- Built-in spell check functionality to support professional communication.



Matrix Academy

*Empowering Users
and Partners*

Matrix Academy is a cloud-based learning platform created to support everyone who uses, supports, or sells Matrix solutions. Designed as a single, centralised learning environment, it enables users and partners to build knowledge, develop practical skills, and gain recognised certification - all in one place.

Whether you are an end user looking to confidently navigate Matrix systems in your daily role, or a partner responsible for implementation, training, and ongoing support, Matrix Academy provides structured, accessible learning that supports real-world application.

The platform ensures that every learner engages with consistent, up-to-date content aligned with Matrix solutions and best practices.

Who is it for?



End Users

Matrix Academy equips end users with the knowledge needed to work confidently and effectively with Matrix solutions. Through guided learning paths and assessments, users gain a deeper understanding of system functionality, helping to improve accuracy, efficiency, and day-to-day performance.



Partners

For partners, Matrix Academy delivers certified product training that strengthens implementation capability and support delivery. By enabling teams with formal accreditation and verified product knowledge, partners can deliver consistent, high-quality solutions with confidence.

EVERYTHING YOU NEED TO MASTER OUR SOLUTIONS - IN ONE PLACE.

Key Capabilities

- **Structured, Self-Guided Training**
Role-based learning paths tailored to specific Matrix solutions, allowing learners to progress confidently at their own pace while building practical, real-world knowledge.
- **Assessments & Knowledge Validation**
Integrated assessments and testing reinforce learning and ensure true understanding, moving beyond simple course completion to verified competency.
- **Certification & Accreditation**
Formal certification programmes validate skills and expertise, enhancing credibility and confidence for both users and partners.
- **One Platform, All Matrix Solutions**
A single, centralised source of truth for training across the full Matrix solution suite, ensuring consistency and up-to-date product knowledge.
- **Cloud-Based, Anytime Access**
Fully cloud-based access allows learners to train anytime, anywhere, across desktop and mobile devices.

**Confident, capable users.
Skilled, empowered partners.**

Empower your teams with Matrix Academy - a modern learning platform designed to build knowledge, capability, and confidence across Matrix solutions.



AI in Mining

Mining has always evolved through technology. From mechanisation to automation, from instrumentation to analytics, progress has consistently been driven by a single objective: doing difficult work more safely, efficiently, and reliably.

Artificial Intelligence (AI) represents the next stage of this evolution - not as a replacement for proven systems or experienced people, but as a powerful extension of both.

At Matrix Design Africa, AI is not treated as a standalone solution or a marketing label. It is an enabling layer that strengthens safety systems, improves operational insight, and supports better decisions, designed by teams who understand both the data and the operational realities behind it.

From Data to Understanding

Modern mining environments generate vast amounts of data: equipment telemetry, location data, safety events, workflows, and human interactions with systems. Historically, much of this data has been under-utilised, typically recorded, stored, and reviewed after the fact.

Modern AI and machine-learning (ML) techniques allow us to engage with this data differently. Rather than relying solely on static thresholds or predefined rules, AI/ML systems can:

- Identify patterns that develop over time
- Highlight emerging risks earlier
- Surface relationships that are difficult to detect manually

This shift moves operations from reacting to events toward anticipating conditions. Importantly, people remain firmly in the loop, with analytical models developed, tested, and validated through close collaboration between data specialists and domain experts.

BUILDING SAFER, SMARTER OPERATIONS

Practical AI, Embedded Where It Matters

Across Matrix platforms such as DeltaERP, ppe2go, IntelliZone, and OmniPro, AI is applied pragmatically. This includes modern AI techniques like large language models (LLMs), used not as standalone intelligence, but as integrated components within broader systems.

The most effective solutions are not headline-grabbing “general AI,” but well-designed combinations of • statistical modelling, • machine learning, • LLMs and other recent advances in AI, • optimisation, and • domain-specific logic.

These deliberate engineering choices balance technical rigour with operational understanding. The result is improved situational awareness and stronger compliance without obscuring how decisions are made. AI, in this context, is about clarity, consistency, and confidence.

Safety as the First Principle

In mining, technology earns trust through performance and transparency. Matrix's approach ensures models are measurable and outputs are explainable. Systems must integrate seamlessly with established safety processes rather than bypass them.

While AI reduces information overload and supports earlier intervention, it does not remove accountability. Responsible AI enables innovation to be applied safely and consistently.

Looking Forward

The future of mining will be increasingly connected and data-driven, yet deeply human. AI will play a growing role in supporting operators, with success defined by careful engineering and thoughtful integration.

AI is not a destination but a tool - powerful when placed in capable hands.