

# Business Company Profile

The background of the slide features a dark blue field with glowing white binary code (0s and 1s) arranged in curved lines. Overlaid on this are intricate white circuit board patterns. In the bottom right corner, a portion of a globe is visible, showing continents and latitude/longitude lines. A thick, wavy banner in blue and orange spans the bottom of the slide.

## BINARY ITS BINARY ITS COMPANY PROFILE

**Orchestrating the Digital Future:  
Innovation. Integration. Intelligence.**  
**Your B-BBEE Level 1 Strategic Partner for the 4th  
Industrial Revolution.**



# BINARY ITS BINARY ITS COMPANY PROFILE

## About Company

**The Power of 0 and 1. Amplified!**  
**Decoding Complexity. Automate Success**  
**Transforming Data into Digital Sovereignty.**

**It all starts with a decision: Yes or No. 1 or 0.**

**In a world saturated with noise, Binary represents clarity.**

For too long, there has been a disconnect between the physical world of heavy industry and the digital world of agile technology. We exist to bridge that gap. At Binary Innovative Technology Solutions, our mission is to strip away the inefficiencies of traditional IT and replace them with lean, high-velocity digital ecosystems.

We are not just architects of code; we are an implementation partner that gets its hands dirty.

We understand that an algorithm is only as good as the asset it protects.

As a proudly South African technology leader, our mandate is to democratize access to world-class innovation. Whether it is securing digital identities with IdentiCore or optimizing power grids with CASS, we apply the logic of machine learning to solve the unpredictability of human business challenges.

**Industrial Strength. Digital Speed. Welcome to Binary.**



**BINARY  
ITS**

**BINARY ITS**

**Salomi Ramlall**  
*Chief Executive Officer*

COMPANY PROFILE

# Welcome Message

We stand at the precipice of a new era in business—where the 4th Industrial Revolution (4IR) is no longer a concept but a daily operational reality. At Binary Innovative Technology Solutions, we understand that true digital transformation is not just about buying software; it is about fundamentally decoding your business challenges and re-architecting them for resilience, speed, and intelligence.

As a proudly South African B-BBEE Level 1 organization, our mission goes beyond traditional system integration. We are here to bridge the gap between legacy infrastructure and the autonomous future. Whether it is deploying Artificial Intelligence to automate complex decisions or utilizing Machine Learning to predict market shifts, our goal is to help you monetize your data and disrupt your market trends.

We believe in a people-centered approach to technology. By combining deep industry expertise with agile methodologies like DevOps and CI/CD, we don't just deliver IT solutions; we deliver the competitive edge needed to thrive in a volatile global economy.

Welcome to the future of integrated intelligence.

Welcome to Binary **01010**





# Binary

## Vision & Mission

### Vision

Clarity in a Complex World. To build a digitally sovereign South Africa where every organization, regardless of size, can harness the power of Advanced Analytics, AI, and IoT to thrive in the global economy

### Mission

To Decode. To Automate. To Empower. Our mission is to transform "data" into "decision-making power." We achieve this by providing end-to-end integrated solutions that monetize information and automate the mundane. We exist to support our customers every step of the way, ensuring that technology serves the business, not the other way around.



# Our Service

## CORE DIGITAL SERVICES Engineering Business Agility

In a business environment defined by rapid technological shifts and competitive volatility, "keeping the lights on" is no longer enough. At Binary, we do not just support your strategy; we accelerate it.

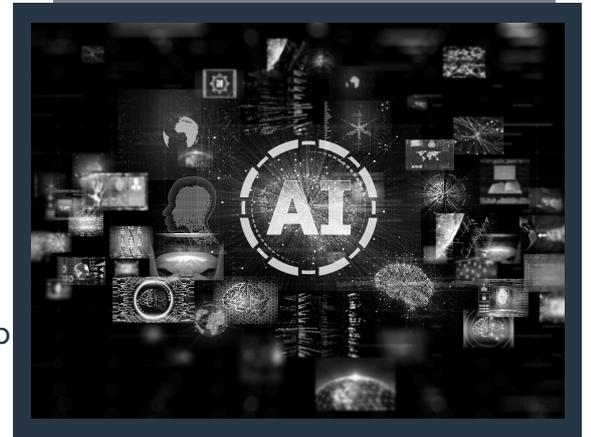
We focus on designing and implementing IT architectures that deliver measurable Return on Investment (ROI) and tangible business benefits. By moving beyond the role of a traditional service provider, we act as a strategic partner, helping leadership teams decode complex challenges and providing the independent perspective needed to make high-stakes decisions.

### Our Delivery Promise

**Precision Execution:** Our technical expertise is governed by world-class methodologies, including Agile, DevOps, and Prince2, ensuring that every deployment drives your business forward without operational drag.

**Adaptive Scalability:** Innovation requires the right talent at the right time. We provide flexible, scalable resource models that place expert skills exactly where you need them, optimizing cost without compromising on quality.

## Our Business Drivers



# Partnering with **binary 01010**

## The Binary Advantage

**Sovereign Strategic Compliance:** We are a proud B-BBEE Level 1 Contender, allowing our partners to maximize their procurement recognition while investing in a 100% South African-owned digital future.

**Accelerated Speed-to-Value:** We don't start from scratch. We leverage a massive repository of proven case studies and reusable code frameworks. This allows us to deploy solutions faster, reduce development costs, and create immediate savings for our customers.

**Hybrid Governance Mastery:** We speak your language, whether it is corporate stability or startup speed. Our delivery engines are adaptable, utilizing PMBOK and PRINCE II for structured governance, while deploying Agile and DevOps for rapid, iterative execution.

**Vendor-Agnostic Integration:** We fit the technology to the problem, not the other way around. Our team possesses deep skills across SAP, Oracle, and Microsoft ecosystems, as well as Open Source and custom API integration, ensuring you get the best tool for the job.

**Cognitive-First Engineering:** We design for the 4th Industrial Revolution (4IR). Our solutions are not static; they are built to be intelligent, spearheaded by Advanced Analytics, Machine Learning, and Automation from day one



# Success Stories

## Binary's IdentiCore

Redefining Customer Authentication

At Binary, we build smart solutions that tackle real-world challenges. Our latest breakthrough, IdentiCore, is transforming fraud prevention and customer authentication in the telecom sector.

Recently deployed by one of South Africa's top tech leaders, IdentiCore has dramatically cut losses from fraudulent transactions. Its adaptive authentication methods ensure secure, frictionless customer experience.

Core Highlights of IdentiCore

Biometric Verification:

Facial and fingerprint recognition via IoT devices

Scalable Backend: Powered by AWS S3, Redis, and MySQL

Modern UI:

Built with Next.js for responsive, intuitive interaction

DevOps Mastery:

CI/CD with GitLab and ArgoCD, containerized via Docker

Real-Time Monitoring:

Kibana-driven request tracking

Third-Party Validation:

Integration to National Databases

AI Rule Engine:

Smart routing for continuity and failover

IdentiCore isn't just a security layer; it's a full-fledged trust platform, setting new standards



# Success Stories

## Binary Coal Automation Surveillance System

Revolutionizing Power Generation Monitoring

Binary ITS proudly presents CASS—the Coal Automation and Surveillance System, our in-house innovation designed to optimize coal flow and electricity output across power generation facilities. Delivering real-time insights and operational efficiency, CASS is reshaping how energy providers manage critical infrastructure.

### Key Technologies Behind CASS

#### Frontend

Built with React and styled using Tailwind CSS for a fast, intuitive operator experience

#### Backend

Dual-database architecture with Redis for real-time metrics and PostgreSQL for historical data and reporting

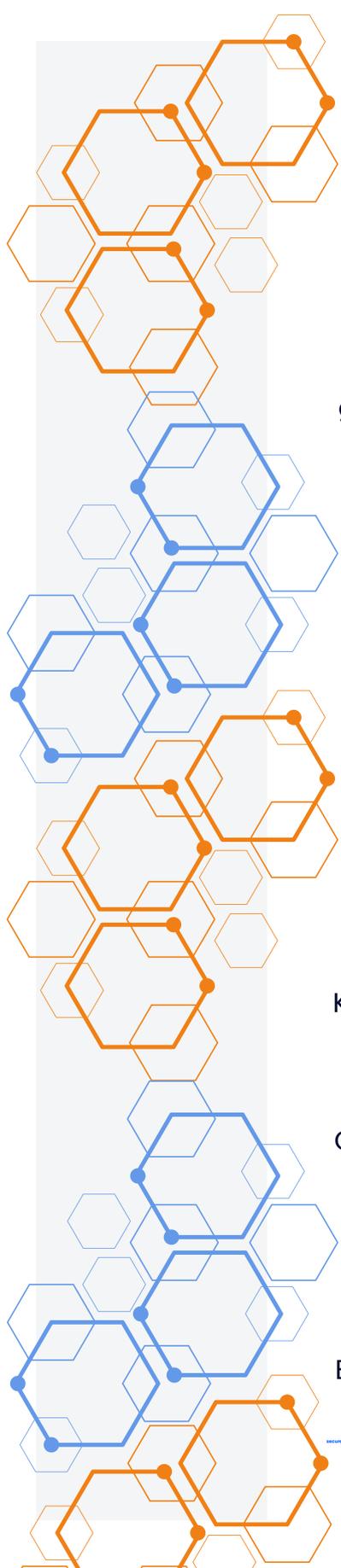
#### Authentication

Keycloak ensures secure, realm-based access control across user domains

#### Real-World Impact

CASS empowers operators with live visibility into coal-to-electricity processes, enabling smarter decisions, proactive maintenance, and peak performance, even under demanding conditions.

By combining modern tech with deep industry insight, Binary ITS has delivered a robust,



# Success Stories

## Transforming Waste Management with IoT Innovation

Binary ITS partnered with a leading recycling plant to deploy an advanced IoT-powered waste management system, revolutionizing mineral recycling operations. From collection to processing, the system automates and monitors material flow, boosting efficiency, transparency, and profitability.

### Key Features

#### Live Reporting & Alerts

Real-time visibility into users, drivers, and materials with automated notifications

#### Financial Integration

Seamless sync with platforms like Sage for accurate accounting

#### Fleet & Asset Tracking

GPS monitoring trucks and flowbins, plus fuel level tracking to cut costs and prevent theft

#### Maintenance & Predictive Analytics

Full asset history, trust scoring, and issue forecasting

Weighbridge Monitoring: Device failure detection and supplier rating system for quality control

#### Visual Surveillance

IP camera verification for enhanced facility security

#### Impact Highlights

#### Efficiency Gains

Faster processing and reduced manual labour

#### Operational Transparency

Clear data trails minimize disputes

Cost Reduction: Smarter routing and maintenance slash expenses

#### Strategic Insight:

Rich analytics drive smarter decisions

Binary ITS's ability to harness IoT for real-world impact, delivering scalable, intelligent solutions that redefine industry standards



# BINARY ITS

## BINARY ITS

### COMPANY PROFILE

# Our Products

#### Advanced Analytics

- Customer Intelligence
  - Analytical marketing
  - Customer journey optimization
  - Real-time customer experience
  - Ecosystem excellence
- Data Management
  - Quality Management
  - Integration and Access
  - Data Preparation
  - Data Governance
  - Event stream processing
  - Data Management Ecosystem ☑
  - Data Mining
- Forecasting
- Fraud and Security Intelligence
  - Fraud and Improper payments
  - Anti- Money Laundering/CFT compliance
  - Identity Analysis
  - Public Security
  - Cyber Security
- ☑ Network Analytics (GSM)
- ☑ Optimization and simulation ☑
- Risk Management
  - Regulatory Risk Management
  - Capital Planning
  - Credit Risk Management
- ☑ Risk Governance Insurance Risk management
- ☑ Statistical Analysis
- ☑ Text Analytics

#### Brand Protection

- "Always On Products" consumer engagement
- Aggregation Management
- Brand protection marking ☑ Counterfeiting protection
- IoT tracking
- RFID ☑ Serialization
- UID generation and management

#### Software Systems

- ERP and CRM
- SAP
- Oracle
- Sage
- Fusion Software ☑ Microsoft software
- Office
- Dynamics
- Projects



#### AI & Machine Learning

- ☑ Automated feature engineering
- ☑ Automated Risk Management
- ☑ Computer vision and Biomedical imaging
  - Deep learning
- ☑ Natural language processing ☑
- Visual data mining
- ☑ Robotic Process Automation

#### Blockchain

- Blockchain and Direct Acyclic Graphing
- Immutable Database ☑
- Specialized serialization

#### Cyber Security

- Antivirus/malware management
- Consulting ☑
- Cyber security system management
- Ransomware management and detection

#### IoT/AIoT (Internet of Things/Artificial Intelligence of Things)

- AI & Machine learning
- Big Data Management ☑
- Intelligent Edge
- IoT/AIoT hardware
- Stream Analytics

#### Security Printing

- Specialized security printing
- Tax stamps
- Bank cheques
- Certificates
- Passports
- ID documents
- Currency
- Serialized documents
- Printing techniques
- UV inks
- IR inks
- UV fiber inlays
- Microtext
- Textured substrates

#### System Integration

- Ecosystem creation
- Ecosystem integration
- API development





### Hardware

- Server infrastructure
- Huawei
- Dell EMC
- HP
- General IT hardware
- Laptops
- Desktops
- Printers & Retail hardware
- Point of sale devices
- Handheld Scanners
- Security Scanner

### Manufacturing

- Consulting
- Primary coding
  - Laser
  - Inkjet
  - Thermal transfer
  - Answer mobile inkjet
- Secondary coding (production line)
  - Drop on demand printing
  - Large character printing
  - Hi-Res large character printing
  - Print and apply (labels)
  - Thermal inkjet
  - Answer Mobile
- Tertiary coding
  - Print and Apply labels
- Labeling
  - AL wind and Count
  - Self-adhesive
  - Linear labeling
  - Cylindrical labeling
- Production line integration all equipment management
- Supply chain management
- Production line accessories and consumables
- General and smart labels (NFC)

### Digital Intelligence Investigative Analytics

- Social Media Monitoring
- Lawful Interception
- Digital Intelligence Platform/Analytics



### Our Offerings

#### Advanced Analytics

The autonomous or semi-autonomous examination of data or content using sophisticated techniques and tools, typically beyond those of traditional Business Intelligence (BI), to discover deeper insights, make predictions, or generate recommendations.

#### AIoT/IoT

A broad term for applying artificial intelligence to the Internet of Things (IoT), a new phenomenon that represents many simple digital connections between hardware devices. The Internet of Things is comprised of billions of small connected devices, including traditional devices and appliances networked together and communicating

#### Cloud Computing

Refers to running workloads remotely over the internet in a commercial provider's data center, also known as the "public cloud" model. Popular public cloud offerings—such as Amazon Web Services (AWS), Salesforce's CRM system, and Microsoft Azure—all exemplify this familiar notion of cloud computing

#### Robotics: AI & ML

Artificial Intelligence (AI), machine learning and deep learning are three terms often used interchangeably to describe software that behaves intelligently. These techniques are used for software to learn and alter its behavior when certain conditions are met.

#### Software

Software plays an integral part of any organization. From payroll to Human Resources Management and much more. Using the correct software and tools can leapfrog your organization into the future and provide your organization with a competitive edge that will set you apart from others.

#### Hardware

Having all the latest and greatest in the software in the industry means nothing without the hardware required to unlock its potential. Hardware is used to support your organizations operational drive. Organizations should always ensure that they have the correct hardware in the right guise.





# Thank You

## Ready to Decode Your Future?

The Fourth Industrial Revolution is not waiting for anyone. The gap between those who embrace digital autonomy and those who rely on legacy systems is widening every day.

You have seen our vision. You have seen our capability. Now, the choice is yours.

At Binary Innovative Technology Solutions, we do not just sell services; we build long-term, sovereign partnerships. We are ready to navigate the complexity of the digital landscape with you, stripping away the noise to reveal the clear path to profitability and resilience.

**Complexity Ends Here.**



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