

KINROSS

CASE STUDY

KINROSS TASIAST – CIL TANKS PROJECT

2026

CUSTOMER SUMMARY

The Tasiast Mine is a large gold mining operation located in the Inchiri region of Mauritania and utilises a Carbon-in-Leach (CIL) process for gold recovery. The plant consists of leach tanks and CIL tanks where dissolved gold is recovered onto activated carbon.

PROJECT OVERVIEW

The project involved the delivery of a Process Control System (PCS) for the Kinross Tasiast CIL Tanks expansion. The scope included engineering, procurement, software development, manufacturing, testing, documentation, and delivery of the automation and control infrastructure required for the process plant.

The project formed part of the broader modernisation and expansion initiatives at the Tasiast operation, supporting reliable control and monitoring of the Carbon-in-Leach process.

SCOPE OF WORK

Engineering & Design

- Process Control System design.
- Control architecture definition.
- Panel design, manufacturing and documentation.
- Network design and communications architecture.

Hardware Supply & Manufacturing

- Process Control Cubicles (PCC).
- Instrument Junction Boxes (IJBs).
- Fiber Optic Infrastructure.
- Network Switching Equipment.
- PLC and Remote I/O Systems.

Completed hardware included: Process Control Cubicles, Instrument Junction Boxes, fiber infrastructure, and network equipment.



AUTOMATION TECHNOLOGIES

PLC Platform

Schneider Electric Modicon M580 PLC Platform including:

- M580 Controllers.
- X80 Remote I/O Architecture.
- Distributed I/O Systems.

Some specific hardware used on this project are:

- Modicon M580 CPUs.
- BMENOC0321 Network Modules.
- X80 Remote I/O modules and racks.

Network Infrastructure

- Cisco Catalyst 9200 Industrial Network Switches for IT networks.
- RuggedCom Industrial Ethernet Switching Equipment for OT network.
- Fibre-optic communications network.

Electrical & Control Components

- Schneider Electric protection and power distribution equipment.
- Industrial networking and fiber communication systems.
- Process Control and Instrumentation infrastructure.

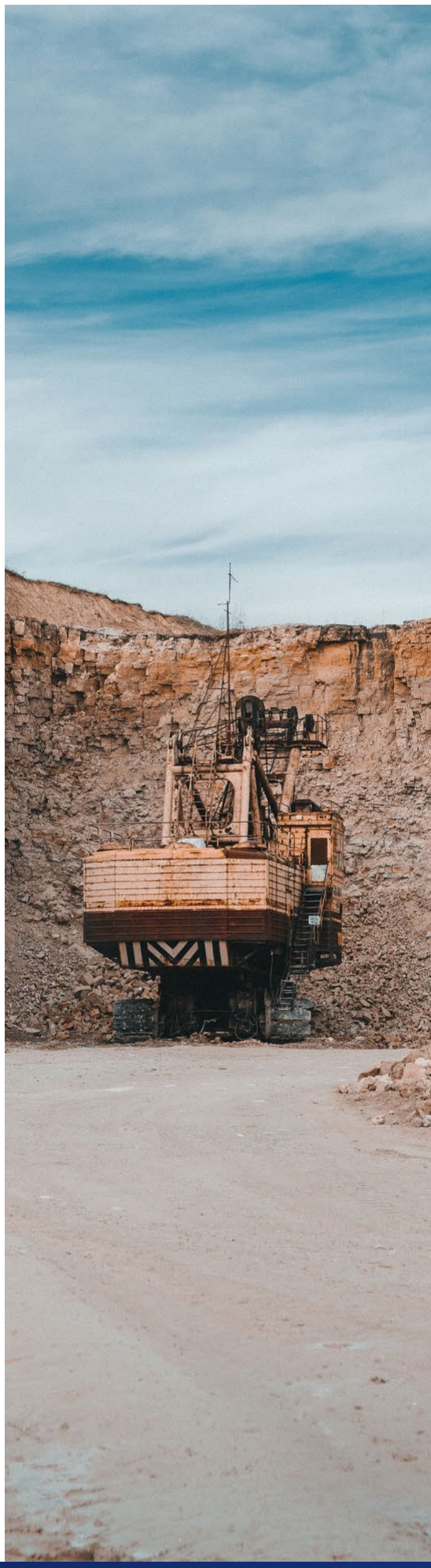
SOFTWARE & CONTROL

The project included:

- PLC Application Development.
- SCADA Development.
- Factory Acceptance Testing (FAT).
- Site Acceptance Testing (SAT).

At the reporting stage:

- PLC development was complete.
- SCADA development was complete.
- Internal FAT was complete.
- External FAT testing had been conducted.



KEY DELIVERABLES

- Process Control System
- Schneider Electric M580 PLC Solution
- Remote I/O Panels
- Process Control Cubicles
- Industrial Ethernet Network
- Fibre-Optic Communication Network

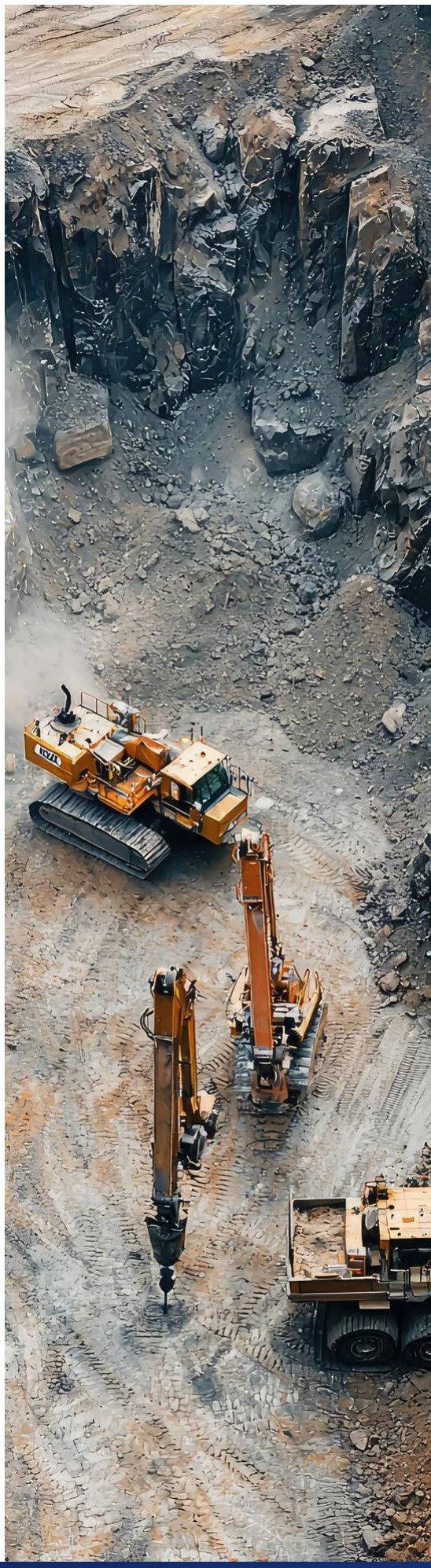
Documentation & Reporting

- FAT Documentation
- Quality Documentation
- Manufacturer Data Reports
- Project Management & Progress Reporting

CUSTOMER BENEFITS

The project provided the following key aspects:

- Modern industrial process control architecture.
- Improved operational visibility of the CIL process.
- Robust Schneider Electric M580 control platform.
- High-availability industrial networking infrastructure.
- Standardised automation and control environment.
- Improved maintainability and future expansion capability.



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