



2026 | CASE STUDY | NETWORK SCIENCE

AR-POWERED QUALITY INSPECTION FOR WIRE MANUFACTURING

Overview

1.

A leading copper and aluminium wire manufacturer replaced labour-intensive, paper-based testing with a fully digital, AR-enabled inspection system. Engineers conducted thousands of daily tests manually – a slow, error-prone process that delayed stakeholder reporting.

Solutions & Strategy

2.

Transformed quality inspection processes through paperless operations, AR-powered field inspections, and centralized data management, enabling faster, more accurate, and real-time decision-making

Solution

- Paperless Lab Operations
- AR-Assisted Inspections
- Voice-Enabled Workflows
- Centralized Data Intelligence



4.

- Testing speed and accuracy significantly improved.
- Human error in data collection virtually eliminated.
- Stakeholders received test data in real time instead of after delays.
- Engineers redirected time from manual entry to higher-value tasks.



Replacing paper processes with AR-enabled automation transformed the client's quality inspection workflow. Faster, more accurate data collection and reporting strengthened operational efficiency and stakeholder confidence across all plants.