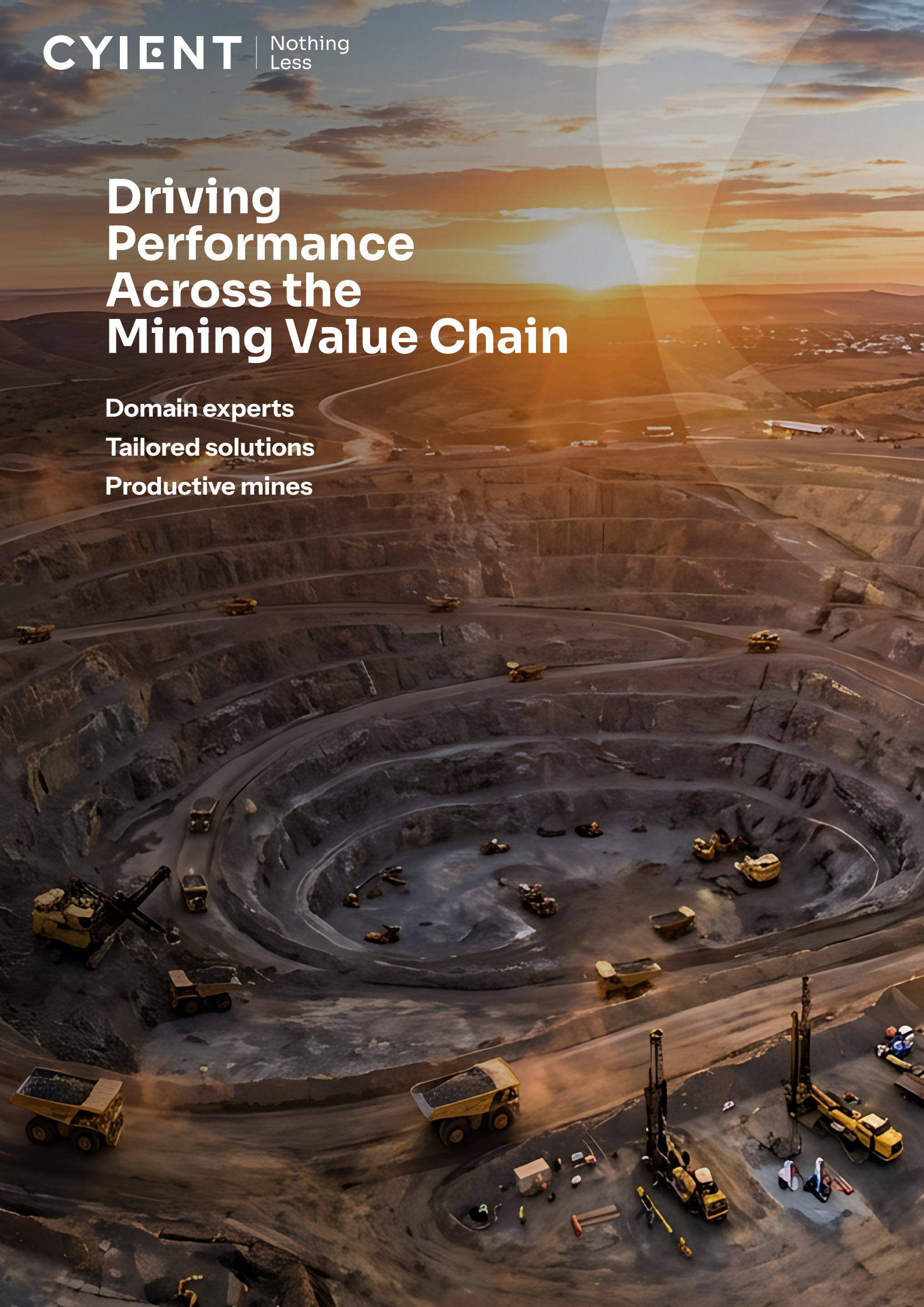
CYIENT | Nothing Less

Driving Performance Across the Mining Value Chain

Domain experts

Tailored solutions

Productive mines



Mining is a long-horizon, high-consequence industry. Assets are expected to perform reliably over decades, capital programs are scrutinized across cycles, and operations run in safety-critical environments where disruption carries material risk. In this context, mining leaders value partners who demonstrate judgement, relevance, and delivery credibility.

Cyient's mining capability is built to operate within these realities. We support mining and minerals organizations by combining human expertise, domain knowledge and AI to improve project certainty and operational performance.

Our mission

To enable safer, more reliable mining operations by translating data and digital capability into decisions that improve uptime, throughput, and cost performance across the full asset lifecycle.

Our capabilities

Operating model

- Organizational model redesigns
- Change management



Data management

- Digitization of complex legacy datasets
- Asset management, mine closure, and mine exploration data support enabling digital adoption
- Platform development for data storage and interrogation
- People onboarding, travel, and accommodation logistics supporting tier 1 clients with large-scale workforce movements



Digital mining

- Complex schedule optimization (Schedule AI)
- Advanced process control advisor (optimizing for yield, energy, CO_2)
- Stockpile feed optimization



Asset management

- Equipment strategies and tactics optimization
- Reliability centered maintenance
- Spare parts and master data management
- Intelligent supply chain management
- Interactive technical publications
- EAM and asset data management
- Operational readiness



Operational performance

- Value chain constraints analysis
- People capability uplift
- Asset performance uplift
- AISC and unit cost reduction
- Operational efficiency improvements
- Autonomous operations
- Trade-off analysis
- OoM, PFS, and FS engineering studies

Our value proposition

Domain expertise augmented by AI

- 15+ years of mining experience
- Integrated asset management & reliability engineering CoE for a Global Tier 1 mining company
- 10+ years of value delivery for a Global Tier 1 mining company
- Master data governance & maintenance strategy development

User adoption change management and delivery assurance

- Change management aligned to mining operating models
- Training, operational readiness, and field enablement
- Transition support and hypercare to reduce disruption
- Focus on sustained adoption and measurable outcomes

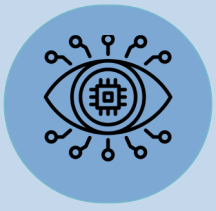
Digital delivery capability

- Delivery and BAU management of digital solutions and technical data
- 100 digital + engineering experts with over 50 mining SMEs
- AI-augmented analytics & digital platform implementation
- Technology implementation & support for asset heavy industries

Why it works



Domain credibility leads, technology enables



Judgment and restraint replace hype



Adoption is designed in from the start



Outcomes are transparent, measurable, and operationally relevant

Demonstrated excellence in projects



Maintenance tactics review and update (fixed plant assets)

Challenge: Optimize maintenance tactics across critical fixed plant infrastructure while reducing cost and unplanned downtime.

Our approach: Performed function location analysis and Reliability Centred Maintenance (RCM) reviews based on equipment criticality. Built complete maintenance strategies and updated existing practices across rail track infrastructure, conveyors, ship loaders, substations, port facilities, and water supply systems. Recommended vendor consolidation for spares procurement.

Outcome: Reduced spare parts consumption cost by **15–20%**, improved asset availability by **5%**, and reduced unplanned maintenance work by **10%**.



Schedule AI creates $5M value

Challenge: Derisk complex capital project schedules and improve delivery certainty in an environment where most projects fail to meet schedule milestones.

Our approach: Deployed a fit-for-purpose AI schedule optimizer focused on the critical few decisions that drive schedule performance. Increased decision speed and improved schedule quality to support on-time production readiness.

Outcome: Delivered **44 days (11%)** schedule saving, generating approximately **$5M** in value and achieving **13x ROI**.



Unlocked $120M of value through value chain integration

Challenge: Support a mining client's evolution from a remote operations centre to an integrated operations center enabling unified decision-making across the value chain.

Our approach: Conducted current-state maturity assessment against industry benchmarks, developed a digital and value chain roadmap, reviewed automation readiness and decision rights, and delivered an implementation and change strategy supported by ROI tracking.

Outcome: Demonstrated **$120M** of value through value chain integration and maturity uplift toward industry-leading integrated operations.

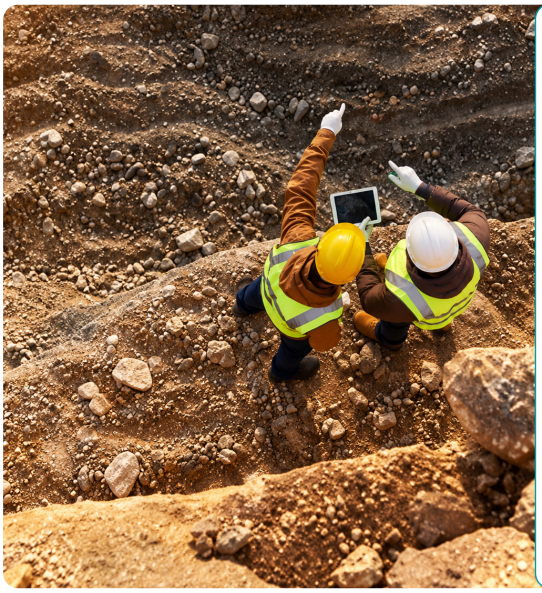


New operating model for a mid-tier miner (growth and integration)

Challenge: Enable a mid-tier miner undergoing acquisitions to adjust its operating model and maximize enterprise value in a new global environment.

Our approach: Developed a new operating purpose, operating practices, leadership role definitions, organizational structure, and governance routines. Provided board-level and executive coaching to embed the model globally.

Outcome: Successfully deployed a new operating model across the organization, supporting integration of new businesses and contributing to continued share price growth of approximately **75%** CAGR.



Support in maintaining and codifying world's largest private exploration database

Challenge: Establish a privately held exploration database to unlock discovery insights, improve decision-making, and retain critical geological knowledge across commodities.

Our approach: Structured and secured exploration datasets including lithology, downhole, geophysical, and geochemical data. Catalogued **1.8 billion** drill records and georeferenced and vectorized **500+** geological maps, enabling technology integration for AI-ready exploration workflows.

Outcome: Enabled discovery of Tier 1 and Tier 2 resources, reduced exploration costs, improved insight quality, and increased asset value through documented exploration history.



Mobilize 16K people for tier 1 miner weekly

Challenge: Manage large-scale workforce logistics for a major fly-in fly-out mining operation while reducing cost and improving operational efficiency.

Our approach: Delivered end-to-end people logistics including onboarding, roster planning, travel bookings, site accommodation, demand forecasting, shutdown administration, reconciliation billing, and 24/7 support.

Outcome: Provided **12 years of service**, supporting **16,000** people movements every fortnight, delivering **40% cost** reduction, and achieving year-on-year improvements through automation adoption.

Our edge in mining

50+	200+	1800+	150+
Strategic partnerships of 5+ years	Asset management specialists	Plant engineers	Data scientists



Turn operational complexity into measurable outcomes. Speak with our experts, today!

Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com.

North America Headquarters
USA
T: +1 860 528 5430

Europe, Middle East, and Africa Headquarters
UK
T: +44 118 3043720

Asia Pacific Headquarters
Australia
T: +61 2 8887 8600

Global Headquarters
Hyderabad
T: +91 40 6764 1000

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