



ABOUT THE INDUSTRY





The **USD 470 billion** mining and natural resources industry is characterized by variable growth patterns due to economic conditions and government regulations. Long-standing attributes are reflected in a range of challenges and opportunities that are faced by the industry's established players and by those contemplating entering the market.



Technology to Substitute Labor - The quest for smaller and more profitable footprints will lead to higher reliance on IT for cost cutting and Tech support.



The technology implementations of these business dynamics require the development of the next generation platforms that will help mining organizations to switch gears from a **'Bigger is Better'** to a **'Leaner is greener'** philosophy.

FROM A 'BIGGER IS BETTER' STRATEGY TO A 'LEANER AND GREENER' PHILOSOPHY

INEFFECTIVE CONTROL

- Poor synchronization across the value chain
- Mis-alignment between strategy and operational execution – compliance to plan
- ► High variability in production
- ► High levels of uncertainty in the value chain

THROTTLED RETURNS

- Volatility in commodity prices and demand
- Lower grade and difficult reserves
- Continuous cost escalation – reactive cost cutting
- Falling revenues and profits

INEFFICIENT DEPLOYMENT

- Asset efficiency deployment problematic
- Labour inefficiencies due to "Mining Boom" demand
- ► High levels of uncertainty and risks in operations
- Alignment of strategy with operational outcomes

LOW
PRODUCTIVITY
AND ASSET
UTILISATION

DECREASED COST EFFICIENCY

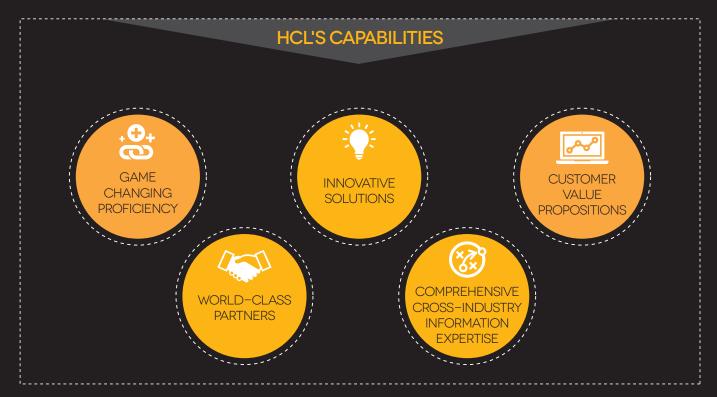
BELOW PAR
SHAREHOLDER
RETURNS

LACK OF SUSTAINABLE MANAGEMENT CONTROL

WHY SHOULD YOU CONSIDER HCL?

HCL's vision is to enable the mining and natural resources industry to adopt a 'Synchronized Digital Mining' information strategy, which supports a dramatic improvement in mining efficiencies, and reliable production to overcome the challenges of fluctuating commodity prices, escalating costs, and diminishing shareholder return.





MINE-TO-MARKET (M-TO-M) HCL'S TOTAL MINING SOLUTION



Customer Advocacy Model and aaS Model



BI/Analytics Across Product Value Chain



Production Value Chain and System Optimization



IT/OT Conversion: Effectiveness Through IT Enabled Automation

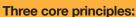


COLLABORATION WITH CLIENTS ACROSS THE VALUE CHAIN



Mine-to-Market: HCL's Mine-to-market proposition, powered by 'Mineral Resource Throughput Management', helps establish a systematic and reliable solution deployment that analyzes and manages the impact of variable quality of raw materials on the performance of the mining value chain.







The usage of the three core principles not only simplifies but also significantly "improves" mine performance.



Synchronized Digital Mining speaks about synchronizing the mining operations in the new digital era. It is also based on the proven Mineral Resource Throughput principles and methodology, while being supported by real-time or near-time information for improved proactive management control and creating a sustainable platform for reliable and materially improved productivity and profitability.

PARTNERING TO DELIVER ACROSS THE VALUE CHAIN



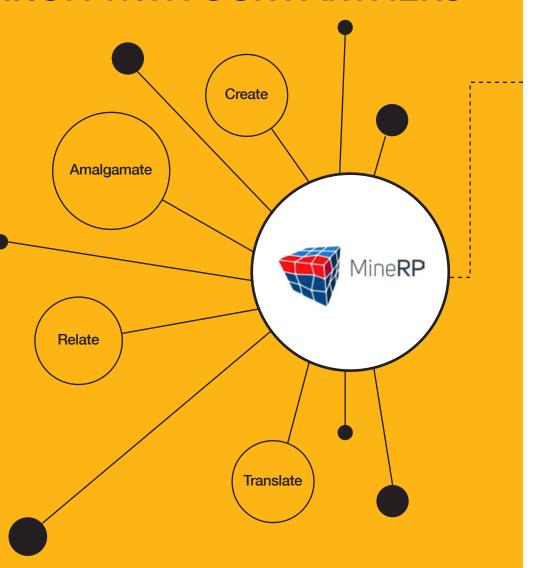
HCL HOLISTICALLY TACKLES PROBLEMS STEP-BY-STEP FOR A STREAMLINED DELIVERY SOLUTION IN COLLABORATION WITH OUR PARTNERS

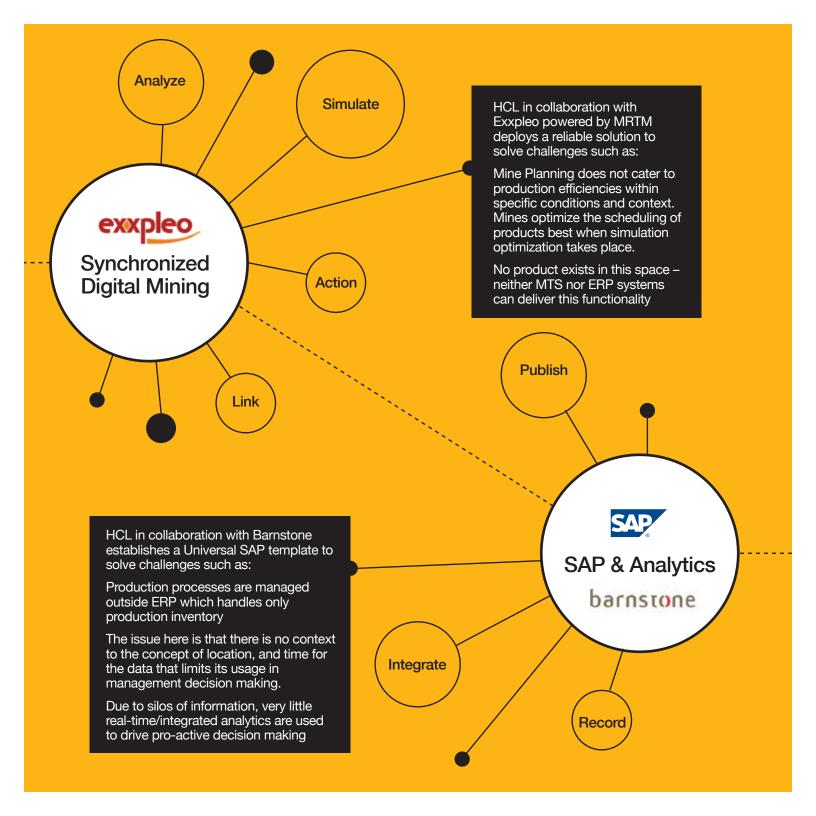
HCL in collaboration with Mine RP develops a Universal Mining template to solve challenges such as:

All data is in localized systems and in silos which make it difficult to use in the information value chain

This data is critical to optimize and synchronize the mine core production value chain for optimal profitability

Major issue lies in the integration of end to end primary value chain data





MINE-TO-MARKET IN THE MINING ECO-SYSTEM

Value chain productivity -

The mining system updates the performance status of the mining value chain from resource and reserve to the market, enabling miners to focus on bottlenecks.



Sustainable Management control -

The system enables multiple optimization options for management and control, enabling effective decision-making that helps stabilize and improve production rates (flow) and product grades/values

Cost efficiency -

HCL's solution generates cost reduction by yield improvement (= less ROM), material flow optimisation (= optimal/less assets required), rapid response to operational deviations, value extraction from ERP systems and other benefits.



KEY SOLUTIONS OFFERED

HCL is an integrator, accelerator and value creator across the mining eco-system and is known for its NextGen solutions such as :

SOLUTIONS	
Product Value Chain	Controls unreliable production across product value chain and maximize value and flow with a sustainable SDM system
Reserve Management	Delivers automation, integration and standardization of mine technical system data into the value chain optimization and reserve economics aspect of the business in partnership with MineRP and Exxpleo,
Mining Solution on SAP	Makes affordable the leading ERP sytem, SAP, with HCL's functionally rich mining solution in partnership with Barnstone
Mining Analytics	Bridges digital integration and Big Data gaps, using ready-to-use the Mining Analytics service platform
Mobility	Enables organizations to be highly productive by providing information at the right time to the right person
Mining Solution in a Box	Accelerates mining operations into the 21st century with a world class ready-to-use solution
As-a-Service 'Delivery' Model	Consumes the HCL Mining solution and / or its components in a cost effective and reliable as-a-service model





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