

# Solutions for the Metals and Mining Industry



Globalization, diversification, intense competition and stringent regulations make it necessary for you to reduce costs and maintain margins. In such a situation, achieving innovation, operational excellence, or improved financial management are just few of the challenges facing your enterprise. Tata Consultancy Services' (TCS) Solutions for the Metal and Mining Industry help you address these by aligning your business with proven IT knowledge. The results: agility, efficiency, and optimized operational processes.

## Overview

Industrialization has consistently increased the demand for both ferrous and non-ferrous meta; to the extent that demand has overtaken supply. On the other hand, global changes have also increased the need to recruit workers from across continents. All of these events combined have led to the framing of strict regulatory norms, which make it necessary for you to look at issues of global warming, carbon trading, anti-pollution legislations, evolution of trade and safety regulation changes, etc, closely.

With the aim to effectively tackle and address the industry's concerns, TCS has utilized its unmatched IT delivery skills and domain expertise in mining operations, metal processing, supply chain planning, logistics, environment, health and safety to bring you unique solutions for the Metal and Mining Industry. By leveraging our Global Network Delivery Model™ and accelerators for services, we ensure you cost efficiencies and productivity enhancement.

## Why TCS

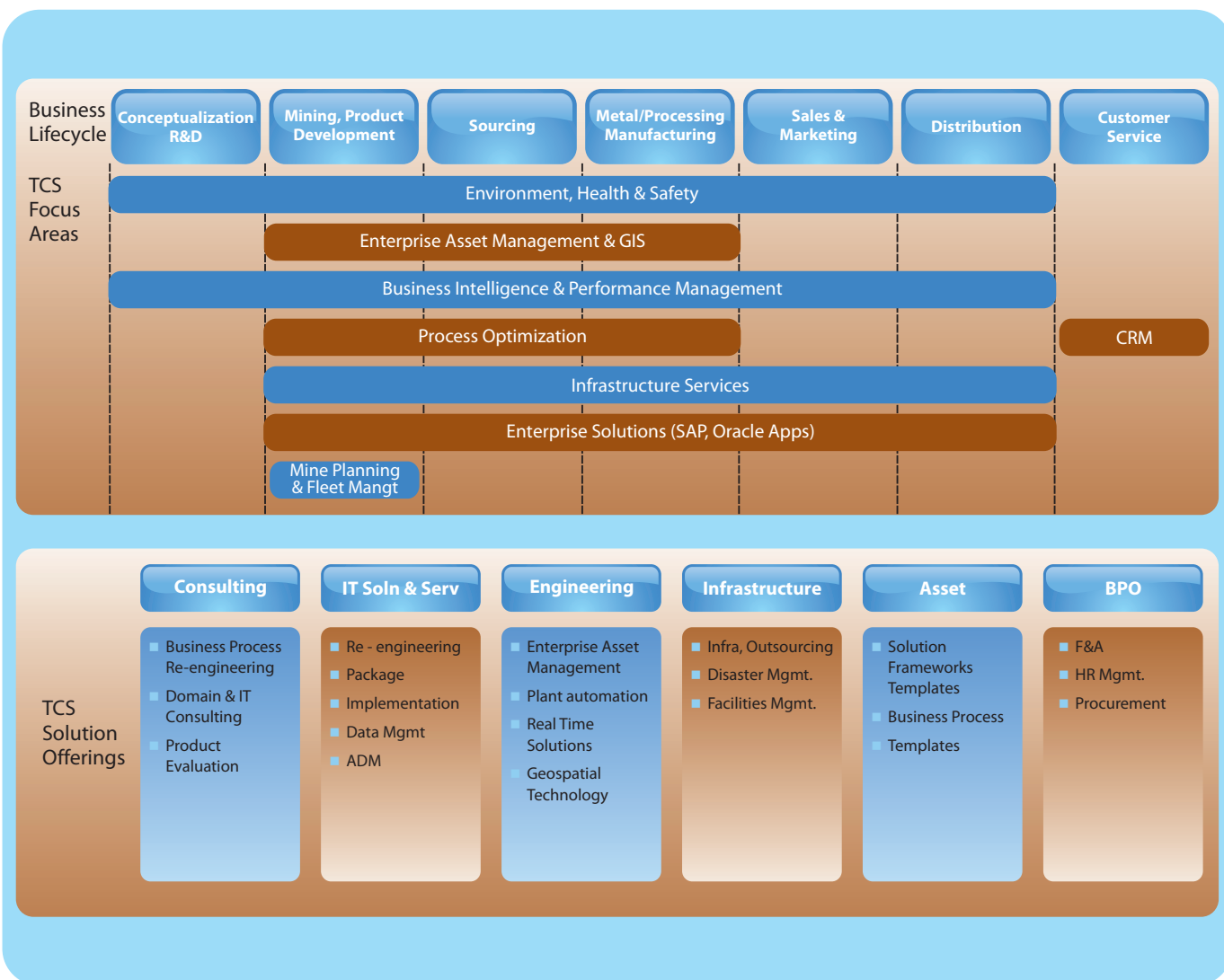
TCS partners with large mining and metal product enterprises like yours to help conceptualize solutions which integrate the 'top floor' with the 'shop floor'. You also benefit from our:

- **Delivery excellence:** We partner you through multiple engagement models that are tailored to suit your business needs and meet external dependencies. Our Global Network Delivery Model™, a collaborative framework of people, processes, and infrastructure makes it possible for us to consistently ensure success of initiatives – anytime, anywhere;
- **Dedicated Metals and Mining Centre of Excellence (CoE):** Here we seek to create novel solutions, working from conceptualization till implementation, focusing on building capabilities that address industry challenges. Some of our unique solutions include:

- **GIS Applications in Mining:** Mining Stakeholder Relationship Management Powered by GIS would help analyze the relationship of a mining company with it's stakeholders in a geospatial context;
- **Mining Operations Solution in Oracle e-business suite:** Complete solution that automates the business process from Exploration, Drilling, Mine development Hoisting and Dispatch and till the ore is delivered to the concentrator. The solution supports both open cast and underground mining operations and integrates with Inventory, Quality, Asset Management and Cost management modules in Oracle e-Business suite;
- **Mining Performance Analytics:** Dashboards developed using SAP XMII to provide "mine" floor visibility right to the boardroom. This would help the mining company in monitoring key business KPIs used in production.

Product Solutions from CMC, a Tata Group Company

- **Crystal:** A complete mine planning system;
- **Dynamine:** A global positioning system (GPS) based operator independent truck dispatch system suitable for opencast mines;
- **Full service play:** We understand that the metals and mining industry today are increasingly looking for an integrated platform for operational and information technology needs. TCS provides complete services to meet these needs. We create a unique bundle of services encompassing engineering applications, infrastructure, business applications and process outsourcing. This unique bundle is delivered under a single governance framework which ensures complete ownership and risk optimization of the portfolio.



An overview of the offerings in the solution

## Our offerings

At TCS we work closely with you to understand your business goals, as well as issues that you face. We have therefore architected the following offerings that address your pain areas.

- Mine Management:** Covers and harmonizes core mining operational processes and common business processes like logistics and materials management, financial management, maintenance management, production management, customer management, HR and payroll management, etc. It helps identify KPIs and measurements against industry standards. You therefore benefit from better visibility, control, maximization of production while taking care of operational and quality constraints. Benchmarked against industry standards, this offering allows faster response to demand growth, price volatility and tight supply situations.
- Asset Management:** This offering harmonizes asset management processes, identifies KPIs and

measurements against industry standards, and helps architect solution to automate harmonized asset management processes related to point assets. The benefits delivered are improved return on assets; decreased costs and risk; increased productivity; improved asset-related decision making; increased asset service delivery responsiveness and revenue, among others.

- Engineering Solution:** TCS has adopted a process-centric view to build competencies, which cut across the value chain. These extend right from control systems, plant automation, SCADA-based to Manufacturing Execution System; which are integrated with the ERP system. TCS also provides SAP xMII based solutions for dash boarding as per the profile of the users. With the help of TCS' Engineering Services offerings you benefit from complete visibility across the value chain; visibility and control over shop floor operations; informed decision making; and manufacturing intelligence.

## How we help our customers

### **Alcoa achieves annual savings of \$12 million through technical solutions alone**

Alcoa Inc. is the world's leading aluminum producer. Considering that the global consumption of aluminum is expected to double by 2020, Alcoa needed to be proactive to garner its share of the booming market amidst fierce competition. To achieve this, Alcoa needed to have a highly efficient and tightly integrated IT system across its operations to enable quick access to information across geographies. Tata Consultancy Services (TCS) partnered with Alcoa to effectively deploy enterprise level applications, develop a global data warehouse and provide IT infrastructure support services. As one of the fastest growing technology and business solutions providers, TCS leveraged its Innovation Labs and Global Network Delivery Model™ to help Alcoa increase IT productivity and thereby enable swift and efficient access to information. Creating a highly efficient technology environment and empowering the global leader to step confidently forward into the unprecedented market opportunities that lie ahead.

## Contact

To know more about TCS' Solutions for the Metal and Mining Industry, contact [eru.marketing@tcs.com](mailto:eru.marketing@tcs.com)

### **About Tata Consultancy Services Ltd (TCS)**

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

For more information, visit us at [www.tcs.com](http://www.tcs.com)

## IT Services Business Solutions Outsourcing

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