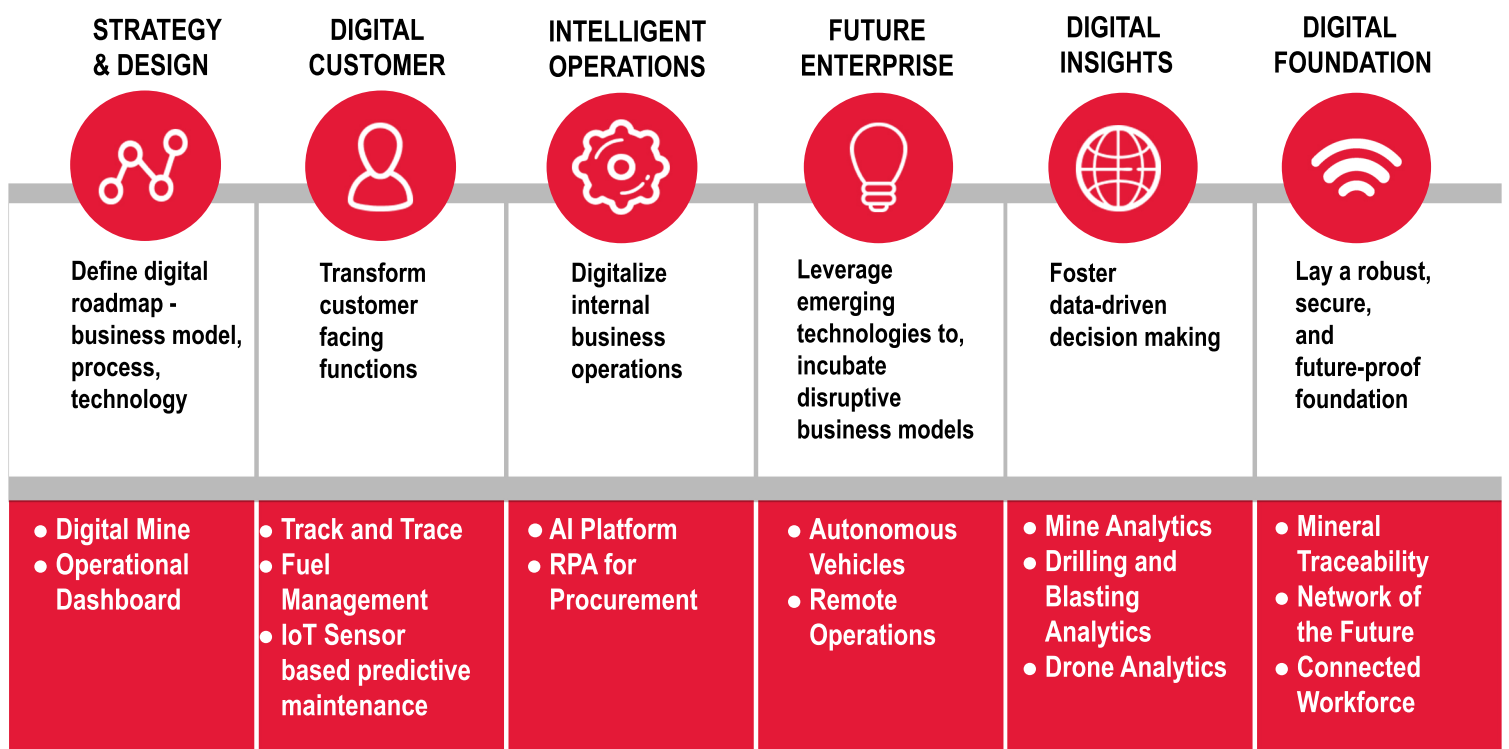


DIGITAL MINING

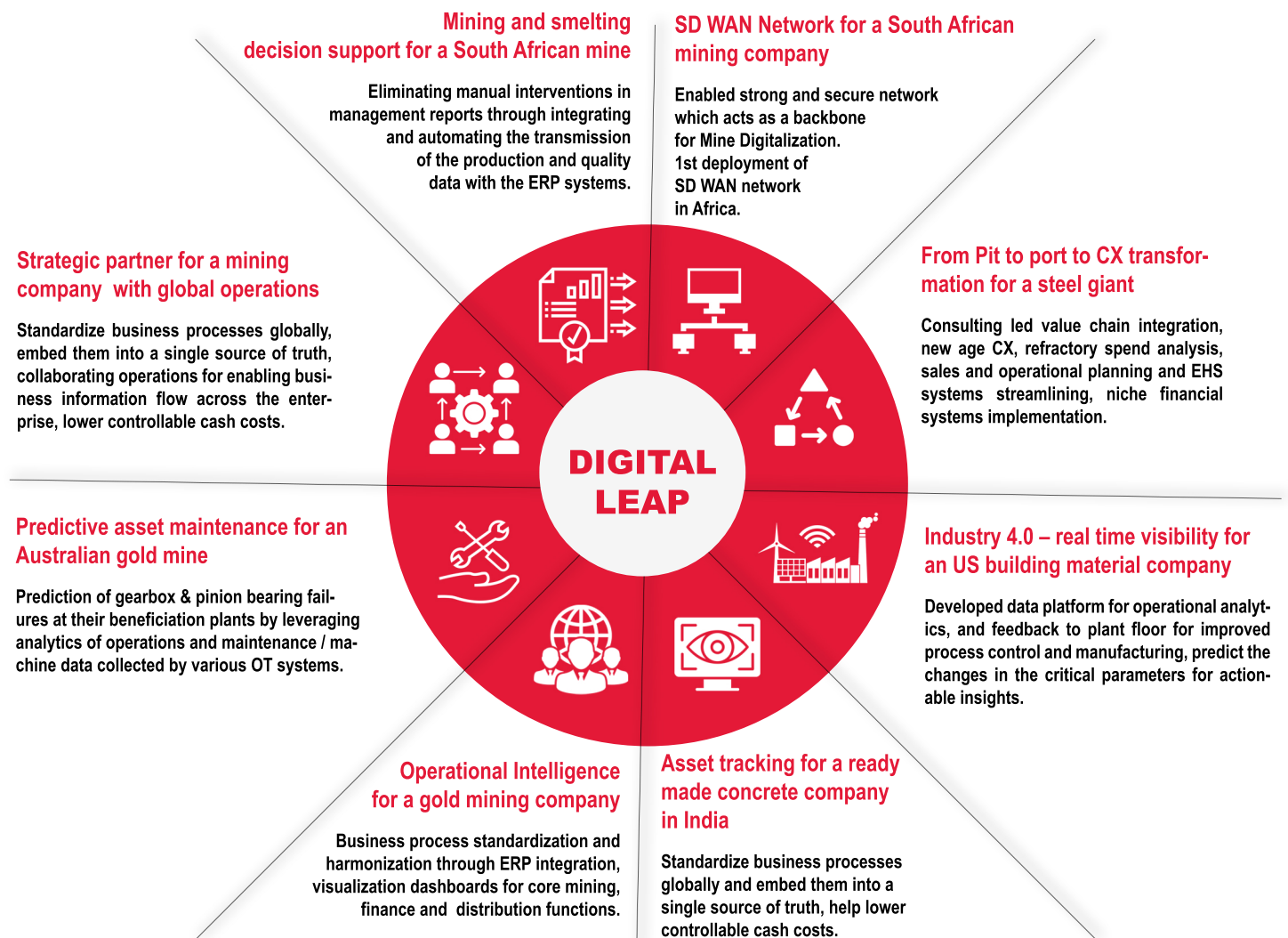
MFGN*Xt*

Mining companies need to evolve to stay relevant in a lower-carbon economy led by a change in business models that helps them adapt to stay relevant, competitive and sustainable.



Tech Mahindra Digital Themes are helping our customers connect their digitalization efforts to their business outcomes helping them develop integrated solutions beyond immediate technology needs

WE ARE HELPING GLOBAL MINING AND COMMODITY COMPANIES TAKE THE DIGITAL LEAP

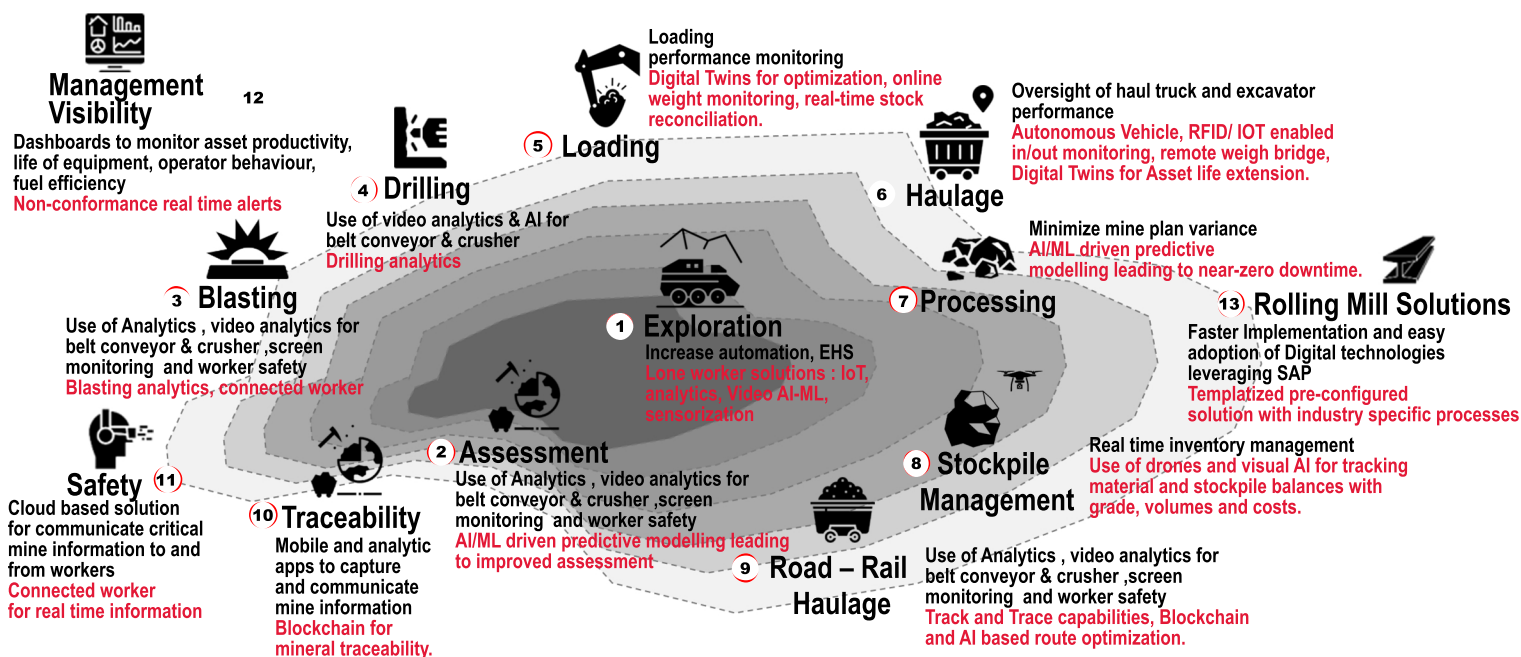




The metals and mining industry is looking at a digital technology led transformation making the processes efficient, safer and more productive. From new age technologies to locate deposits to analytics for better customer experience, the path success would be identifying the right technology and using data to enable management and workplace decisions

Priorities in the Mining Industry Of today

Is to address rising cost challenges and process complexities of the industry



PRIORITIES OF THE MINING AND METAL INDUSTRY



THE CONNECTED MINE

Tech Mahindra Connected Mine Solutions enable mining companies manage their in-pit operations remotely with actionable insights at a cost effective. By consolidation of data from mine to the port and under ground sensors to the CXO dashboard, the solution brings in visibility to manage the complete mining portfolio - from auto-haul, to vehicle maintenance and fuel usage to planned target versus actual variation.



MINE PLANNING

Tech Mahindra and partner solutions are helping mining clients adopt collaborative solutions for the entire mining value chain - mining activity and resource scheduling (personnel, assets and inventory), drilling and blasting analytics, optimize material quality and flow, equipment routing and deviation monitoring, stockpile management include drone based analytics and heavy asset management - all integrated with SAP HANA and ECC.



VEHICLE HEALTH MONITORING

A centralised vehicle health Management system supporting multiple mining hardware OEM's is critical for asset uptime, Lowering cost of maintenance and spares and improved monitoring. TechM offers a real time maintenance dashboard will help monitor the remaining lifespan, maintenance compliance and availability of the entire fleet across multiple mines.



FLEET AND OPERATOR MANAGEMENT

Fuel efficiency demands are driving progressive tracking of each haul and its status, tracking and logging of fuel transactions and consumption data from the fuel sensors to monitor costs of each trip. TechM's fuel management and operator behaviour platform offers rich analytics highlighting actionable insights for cost alerts and operators driving history deviations.



DRILLING AND BLASTING

TechM offers an unique platform for drill, blast, mine safety and drone Data analytics. By empowering the average miner and their supervisor through SaaS and mobile based intelligence, there is a complete elimination of potential risks/problems in drilling and blasting.



DRONE ANALYTICS

TechM provides a drone platform which includes Digital Elevation Modelling(DEM) for height and depth of the entire site and calculation of accurate stock volumes in much lesser time compared to other traditional methods.



CONNECTED WORKER

TechM offers an unique platform for for drill, blast, mine safety and drone Data analytics. By empowering the average miner and their supervisor through SaaS and mobile based intelligence, there is a complete elimination of potential risks/problems in drilling and blasting.



NETWORKED MINES

With an increased need for pit to port connectivity, TechM is working with mining clients to enable wireless technologies that are used to create a software defined WAN that links all locations to ensure that connectivity is available at the remote site.



CONFLICT TRACEABILITY

Leveraging Blockchain, AI-ML, IoT and NFC, TechM is enabling mineral users to be responsible citizens and lower regulatory compliance efforts by identifying the mine source across the processing and final usage of the metal.



AUTONOMOUS VEHICLES

The performance of the Autonomous Vehicles using AI and IoT with no driver assistance or shift breaks is enhanced by TechMahindra services around software, hardware and infrastructure.



PRE CONFIGURED SAP SOLUTIONS

Faster Implementation and easy adoption of Digital technologies leveraging SAP Templatized pre-configured solution with industry specific processes
Preconfigured Solution providing faster implementation and easier adoption in areas of Procure to PayPlan to Produce Quote to Cash Logistics and Transportation.



MANAGEMENT VISIBILITY

Dashboards to monitor asset productivity, life of equipment, operator behaviour, fuel efficiency
Non-conformance real time alerts.

