

Network system transformation unlocks potential to improve efficiency and productivity



Opportunity

Exxaro's network lacked the bandwidth it needed to perform advanced remote operations. It also frequently suffered connectivity issues.

Tech Mahindra teamed up with Exxaro, to help them achieve their goal of digital transformation, by upgrading their network, creating tools to help automate equipment, manage their fleets, and safeguard workers.



Imagining IT Differently

Tech Mahindra helped upgrade their infrastructure with a resilient network including coverage across the four main areas of the mine: the roads, mines, coal wash, and offloading.

Tech Mahindra upgraded their capabilities with a series of base stations with network towers. They were connected to the internet-of-things devices that allowed them to monitor and manage the mining equipment in the field - including trucks which were designed to connect at speeds of 120 km/hr and transmit GPS and equipment health details back to the fleet management software.



Future Made Possible

The new network simplifies the path to digital mining with benefits in:

- Operational safety
- Productivity
- Efficiency
- Sustainability
- Yield management.

The improvements were rolled out in five months, increasing the mines' coverage by 30% and reducing costs by the same. A combination of Industry 4.0, IoT, and a robust connectivity infrastructure makes this a compelling standout leading to better operations, safety, and profits.

