



CASE STUDY

TRANSFORMING THE MINING INDUSTRY

IoT Applications for enhanced Productivity, Sustainability and Efficiency in Mines

The mining industry in India contributes significantly to the economy of the country. The Metals and Mining sector in India is expected to witness a major reform in the next few years, with successive growth in infrastructure and industrial sectors. However, this segment is most vulnerable to activities such as smuggling, thefts, illegal storage etc. leading to lower profits. Industry 4.0 highlights the benefits and efficiencies of artificial intelligence, machine learning and the internet of things to revolutionize industries in their operations and productivity. Sensorise empowers the Mining segment with IoT M2M solutions to profitably transform their business models making it much more safe and productive.



sensorise
connect & serve

Challenges of Mining Sector

- Safety of man, environment and equipment
- Maintaining workforce productivity in remote and challenging environmental conditions
- Minimize operational cost
- Monitoring the fleet movement
- Check illegal activities impacting the revenues
- Data transmission in remote zones



1

Automation
via robotics

2

Enhanced
production

3

Efficient Time
Management

4

Improved
safety

5

Cost
optimization

IoT enabled Mining Benefits

Significance of M2M service providers in Mining Solutions

- Multiple profiles under same roof
- Pre Negotiated rates
- Direct billing with MVNO
- Single life cycle platform for tracking and monitoring multiple accounts
- Connectivity from multiple operators

Sensorise partners ORSAC, APSAC, Jharkhand Mines for M2M Solutions

Sensorise provides Intelligent M2M connectivity solutions to Mining sector with Multi-network M2M SIMs and cloud based lifecycle management portal. Characterised by unique automatic/on-demand network switching capabilities, these eSIMs provide real-time data to the data centres for an efficient fleet management. The fleet operating in the transportation of minerals is fitted with vehicle tracking devices with solderable eSIMs to track the real-time location and movement of the vehicles. These eSIMs are telco, device and technology agnostic and can be managed online through SenseLCM portal for activation, recharge, renewal, order, remote diagnostics, subscription change, etc. Industrial grade eSIM is tamper and heat resistant, with in-built features for data security. The telco profiles can be remotely changed/added over the air, without changing the SIM card. Remote diagnostics enables no-touch troubleshooting for any technical hurdles.

