



# Wipro's Mine Worker Safety Monitoring Solution

Adherence to mine worker safety policy and real-time monitoring, alerting and mitigation



With rapid depletion of natural resources, mining companies are taking higher risks to reach deeper/hazardous locations/terrains. Wipro's Mine Worker Safety Monitoring application addresses safety needs by providing an end-to-end safety monitoring and management functionality covering safety equipment life cycle management, safety clearance, behavioral monitoring and monitoring of mine conditions and mine workers.



Unified framework for digital (drone, automate fleet, in-ground sensors) data collection, processing, analysis and visualization



Benefit from more accurate geo-technical design and evaluation by using AI

Enabling safety officers to enforce safety policies, monitor safety adherence, monitor alerts and initiate corrective actions.

## Solution features

The solution provides the ability to configure:



Safety policy covering safety equipment, skills, certifications, mine conditions, usage of safety equipment at various stages of operations and during accident detection



Thresholds for various safety monitoring parameters



Safety alert triggers and corrective actions framework to resolve alerts

The solution also leverages IoT sensors to monitor safety parameters and provides analytical insights and guidance for taking corrective and preventive actions.

## Business benefits



**Safety policy maintenance:** Maintain alert policy for different jobs and operations in a mine



**Mine worker and alerts insights:** Access mine worker details supported by analytics to monitor key safety KPIs



**Safety policy check adherence:** Verify safety policy adherence for skills, training, certifications and safety equipment tagging on a single screen with ability to initiate corrective actions



**Safety monitoring:** Real time insights on mine environment to detect hazards, safety equipment usage, behavioral safety, accidents, and geofencing breach that helps initiate corrective actions and messaging

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