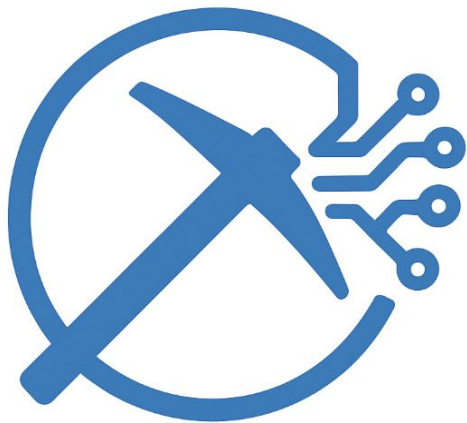


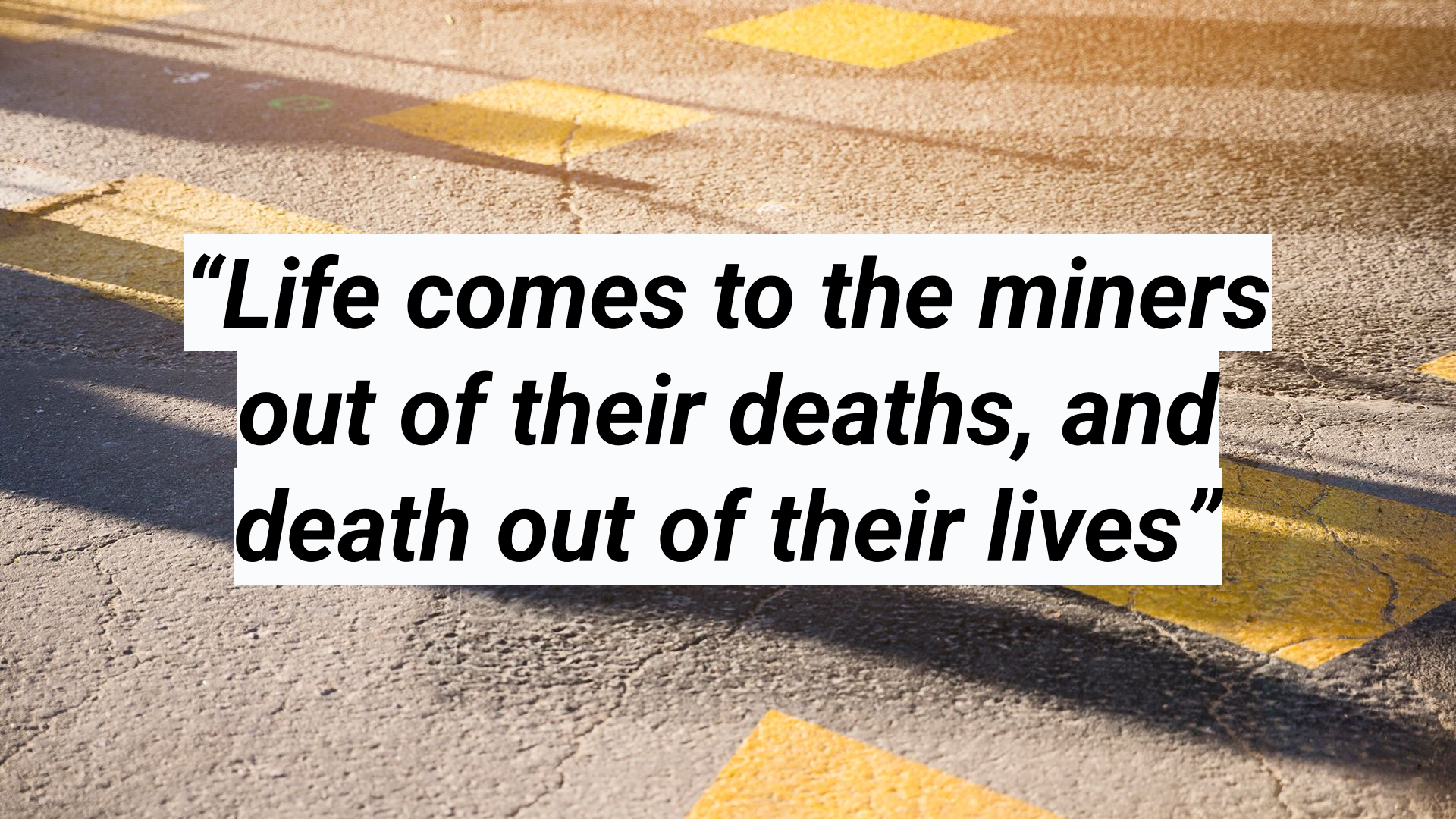


IntelliOre

Our Mission



IntelliOre is an AI-powered system that predicts machinery breakdowns and ensures that workers wear safety gear, reducing preventable accidents in mining environments.



***“Life comes to the miners
out of their deaths, and
death out of their lives”***

The infographic features a dark blue background with a light blue corner on the top left. The number '40%' is prominently displayed in a large, bold, orange font. Below it, the explanatory text is written in a white, sans-serif font.

40%

of the most serious mining injuries occur
when workers are caught in by moving
equipment.

Our Solution

IntelliOre is an AI-powered safety platform that **monitors mining machinery** and **workers' wear of safety gear** before entering hazardous sites. By combining predictive maintenance with real-time safety compliance checks, we help prevent accidents before they happen. We aim to create a safer and more reliable working environment for mining workers.



Technology



Machine Breakdown Prediction

- **Analyze mining machine operational data** to detect abnormal patterns that signal potential breakdowns.
- **Use data visualization** to translate complex machine behavior into clear, real-time alerts for workers



Safety Gear Verification

- Implement Convolutional Neural Networks (CNNs) to detect images whether workers are properly wearing required safety equipment.

Market Analysis

01

Tech adoption is becoming more prevalent in mining industry. Such AI, automation, and drones are being incorporated into the process.

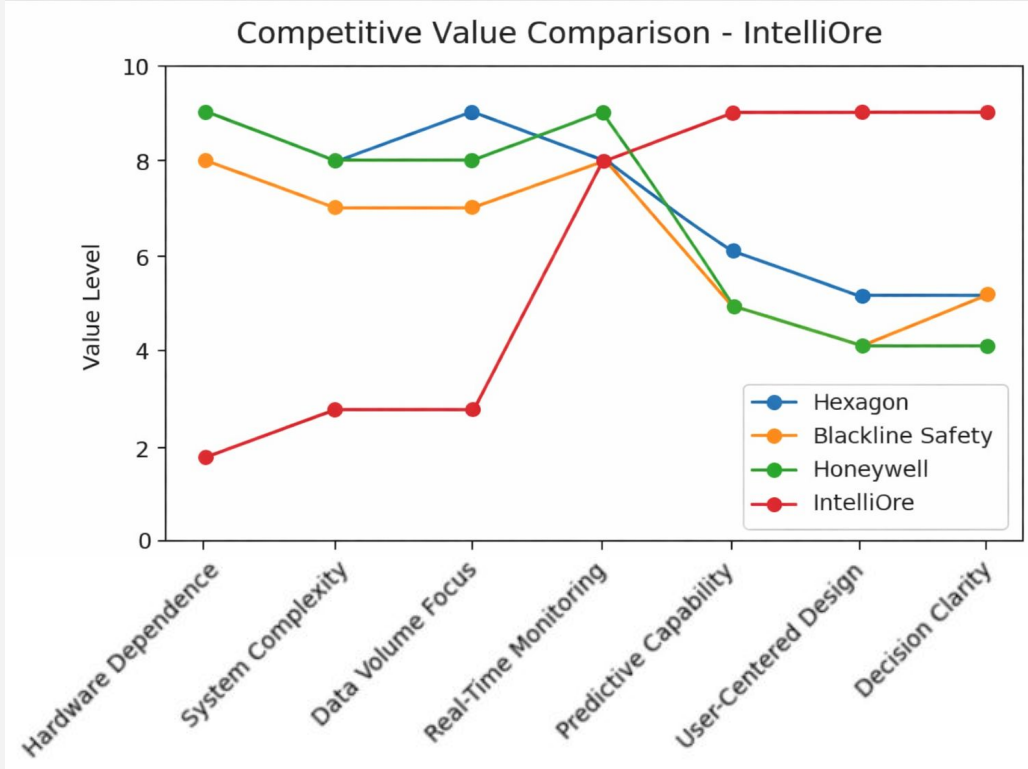
02

The mining industry is experiencing steady growth, projected to hit \$2.5-\$3.7 trillion by 2029-2033 with ~5-6% compound annual growth rate.

03

The average age in the mining industry tends to be higher than the general workforce, typically falling between 40 and 50, those who are more susceptible to injuries.

Competitive Analysis



Hexagon

Uses automation and data technology to help mining operations run more safely and efficiently.



Blackline safety

Creates wearable devices that monitor workers and alert teams to potential hazards



Honeywell

Provides industrial safety equipment and systems that protect workers in high-risk environments.

Current Progress

Developed online presence, such as creating logo and building website



Practiced visualizing and interpreting data of predictive maintenance

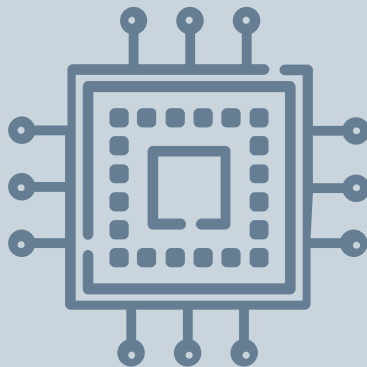
Gathered market insights and feedback from expert in the mining field

What Next?



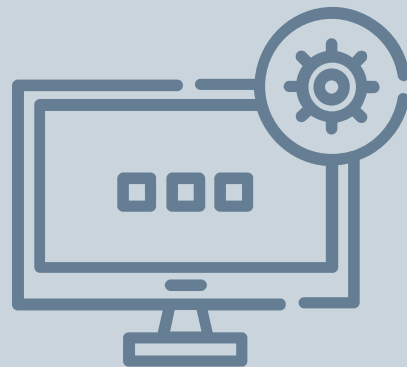
Conduct field interviews

Gather deeper feedback from mining workers to refine practical need



Improve model accuracy

Continue training and testing the predictive and CNN models using relevant datasets



Develop a prototype demo

Build a simple working demo that shows how real-time alerts would function in practice.

Testimonials

“This is practical. Workers don’t have time to analyze complex data. If the alerts are simple and clear, I can see this being used on-site.”

– Mentor James, Industrial engineer in mining industry



Thank You

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