

World's Largest Gold Undermine Chooses Oizom's Dustroid for Dust Monitoring

Our Client

A Guinness World Record holder, our client owns the world's deepest and richest gold underground mine with an average depth of 2800m-3400m (from the ground level), in South Africa. There are about 4000 miners working everyday in the underground mine to excavate over 5400 metric tonnes of the rock everyday. This mine has at least two gold reefs and the deepest one sizes to one metre thick. They are known for their extraordinary shaft from which the ice is slopped in the underground mine to maintain the temperature and make it bearable from above 60 degrees to somewhere 30-40 degrees. They believe in the safety of the environment and their miners and are affirmed to keep these two motives above everything.



The Challenge

Maintaining good air quality and preventing health hazards for miners became difficult due to heavy dust laden activities like blasting, crushing, digging, drilling, etc. Additionally, such large and deep undermines have high temperatures comparatively to the ground level. This increases the chances of various health problems. The company came upon a solution for this - using dust monitors. They started using dust monitoring devices to take corrective actions, but the monitors were unable to work accurately in harsh weather conditions like heat and humidity.

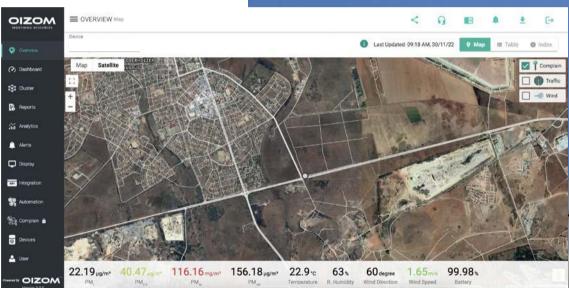
They needed a dust monitor that could withstand climatic conditions and provide accurate data for them to analyse and take further actions. The monitor needed to be qualified to identify even the smallest parameter of dust particulate as well as needs to be safe to use in underground mines.

The Solution

World's leading underground gold mining company chose Dustroid as an ideal solution to maintain occupational health & safety along with taking care of the environment. As Dustroid can withstand high concentration of PM up to 30ug/m3, withstand high tempera-

tures underground that exceeds up to 40 rate & actionable data insights by monitor to install 35 units of Dustroid in their gold

They can access the data collected by all t install in any convenient device. These dat different types of gases found in the dust corrective actions. Additionally, Dustroid a when the dust level exceeds the limits, when mining.



The Result

As a result, they were able to take prevent by extreme dust by relying on the impect troid. Through these actions, the health of risks like various respiratory and skin disea against toxic air, dust, and humidity throu - Dustroid.

Oizom is an environmental IoT company offorces of the decision making. With our sensor-based has ters like air quality, noise, odour, radiation, we derive many actionable insights for authority play an essential role in a sustainable future science.

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