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3 Reasons why **ITRAK** is the Leading Safety Software for the Mining Industry

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Microsoft Dynamics 365 Certified

ITRAK

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Introduction

While the mining industry is an integral part of the global economy, it is often thought of as one of the most dangerous sectors to work in. Despite its high lost-time injury rate and numerous large scale disasters, the mining industry has made great strides to improve health and safety over the last few decades. Mining companies undertake precise planning and sequencing to ensure safety in all facets of their operations, particularly when they involve significant hazards including powerful machinery, darkened tunnels, combustible materials, and potential structural collapses. Occupational illnesses, noise, vibrations, and worker fatigue are also significant health concerns. Although the current state of health and safety in mining is a far cry from its early years, injuries and fatalities involving hauling vehicles and machinery are still common, as well as occupational illnesses from airborne dust.

Like so many other industries, the mining sector is challenged to keep up with the complex and ever changing regulatory landscape, and many companies are scrambling to implement new EHS technology that will help drive performance in metrics such as injuries, fatalities, and lost-time injury rates. Advancements in EHS technology have helped mining companies become better positioned to streamline operations, reduce costs, and overcome unique safety challenges and hazards.

Leading EHS solutions such as ITRAK provide a rich and configurable platform which can be tailored to address the mining industry's specific safety challenges, while providing the tools to ensure compliance with industry regulations and best practices.

Here are three reasons why ITRAK is the leading safety solution for the Mining industry.

#1: ITRAK and the Microsoft Cloud Enable Improved Visibility of Safety & Field Operations

Efficient communications throughout remote mine locations is an essential part of ensuring productivity and visibility of operations within the mining industry. Most mines use an array of embedded sensors, software, and equipment to communicate operations data and conditions underground. Now, thanks to mobile, cloud-based EHS software such as ITRAK, workers are empowered to input and access critical EHS data in real-time. ITRAK and the Microsoft Cloud - Azure, work together to collect and store this data, and allow mining companies to integrate, manage, measure, and track data coming from a variety of sources across the organization.

The emergence of cloud connected mobile devices has made safety information more accessible, shareable, and actionable, allowing mining companies to run their entire EHS Operations from end-to-end with intelligent tools that seamlessly work together. With streamlined EHS processes across the spectrum of connected devices, both management and employees can gain immediate access to their most important forms, metrics, and safety and environmental information, without the need to spend time and effort manually entering data into outdated paper-based form systems or chasing down information. With real-time alerts, notifications, and rich reporting dashboards, ITRAK helps to ensure that operations are always moving and safety information is accurate and up to date.

#2: ITRAK and Power BI Opens Doors to Big Data and Analytics

Today's companies are data hungry, and with the power of ITRAK with Power BI, companies are empowered to make data-driven decisions and develop proactive measures to prevent incidents and minimize risk. In the era of digital transformation, 53% of companies have implemented some form of big data analytics, and mining companies must harness the unprecedented amount of data being produced to fine-tune operations and drive safety and efficiency performance to new heights.

Technologies that allow a data-driven predictive approach can predict when and where injuries will take place, and when equipment will malfunction to a high degree of accuracy. For example, predictive maintenance can be used to predict upcoming faults, malfunctions, or defects, and schedule the optimal maintenance needs of essential mining equipment. This helps to reduce injuries, minimize waste, and drastically increase equipment life. Predictive analysis can cut unplanned downtime by 36% and operating costs by 3-5%, according to a report by consulting firm McKinsey.

EHS software like ITRAK in combination with Microsoft's Power BI provide advanced filtering and deep analytical tools, root cause analysis, and in-depth reporting options. This enables critical and proactive insight into trends, and deep analytical information essential to maintaining efficiency and safety. With the power of ITRAK in the hands of those at every level of the organization, mining companies can continuously evolve and improve upon safety processes with employee generated data and trends. It has been found that sophisticated EHS solutions like ITRAK can deliver the following outcomes:

- **Fewer workplace accidents, injuries, fatalities**
- **Lower employee absence and turnover rates**
- **Lower risk of legal action**
- **Better reputation for corporate responsibility among investors, customers and communities**
- **Higher productivity, with healthier, happier and more motivated employees**

Sample of ITRAK's dashboards for Hazard Identification, Inspections and the associated Risk Matrix

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#3: ITRAK QHSE Software Minimizes Operational Risk

Mining, by virtue of the arduous, physically demanding nature of the work, involves high legal, financial, and human risk, and it is essential that mining companies take every appropriate precaution to eliminate and minimize risk when it comes to workplace health and safety. Establishing a robust framework for risk assessment is imperative to identifying and evaluating operational threats, EHS hazards, and risk factors.

Strategic and data-backed decisions based on EHS insights allow mining companies to drive improvement, reduce future risks and eliminate or minimize hazards. Corrective actions can be planned, implemented, and monitored where appropriate, and the effectiveness of existing hazard controls can be assessed. Effectively managing corrective actions can be arduous and time-consuming, and ITRAK can help streamline the process.

Here are a few components of risk assessments that are built into ITRAK:

- **Customizable Risk Assessment Matrix (RAM) with the capacity to trigger alerts to key stakeholders depending on the risk severity of the event**
- **Custom Risk Ranking Capabilities**
- **Improved controls for hazard mitigation**
- **Project specific HAZOPs (Hazard & Operability Study)**
- **Allows users to build a risk process and link it to an inspection or audit**
- **Allows user to assign action items and notification of outstanding items to crews/teams/accountable party**

As we've seen, ITRAK software is designed to assist in streamlining the safety and operational processes for mining companies. If you're interested in learning more about how ITRAK can help your mining business, please visit **http://www.useitrak.com.**