

MOBILE TECHNOLOGY AND MINING SAFETY

SAVING LIVES WITH BIG DATA

MINING IS ONE OF THE DEADLIEST JOBS IN THE WORLD

MOST FATALITIES ARE THE RESULT OF POTENTIALLY PREVENTABLE INCIDENTS



like equipment failures, rock falls, fires, and tunnel collapses.



INJURIES ARE TAKING A TOLL

Nearly **1,000 miners** suffered nonfatal on-the-job injuries that resulted in **44,028 days** of lost work time.

PRODUCTION COSTS ARE RISING

REGULATIONS ARE MOUNTING

DATA IS HARD TO COME BY



Unit labor costs are increasing, with hourly pay steadily outpacing productivity

In June 2018, MSHA enacted a Final Rule on Examinations that imposed rigorous new safety regulations

Data from paper inspections takes up to 9 months to process. Mining operations use less than 1% of the data they collect

TECHNOLOGY CAN HELP



Mobile devices and apps



The holy grail of tools for mining safety leaders

BUT COMPANIES ARE SLOW TO ADOPT

Natural resource companies spend just **1% of revenue** on technology, compared with **5-7%** for most industries.

MINING OPERATIONS ALSO USE MOBILE TECHNOLOGY TO PERFORM:

Safety Checks

Process Audits

Site Audits



Asset Inspections and Management

Automated CAPA and Workflows

BOTTOM-LINE BENEFITS OF MOBILE TECHNOLOGY AND BIG DATA IN MINING



React in real-time



Reduce errors



Drive operational efficiency



Improve Morale



Save Money



Drive Continuous Improvement



Establish and maintain accountability



Stay Compliant (and prove it)

FEATURES TO LOOK FOR



Offline Functionality



Dynamic Forms and Checklists



Task Management



Time and Date Tagging



Photo Upload and Markup



Alerts and Notifications



Automated CAPA



Pre-populated Fields



Automated Action Plans

http://www.ilo.org/safework/areasofwork/hazardous-work/WCMS_124598/lang--en/index.htm
<https://arweb.msha.gov/stats/charts/allstates.pdf>
<https://www.bls.gov/news.release/cfoi.nr0.htm>
<https://www.cdc.gov/niosh/mining/works/statistics/factsheets/miningfacts2015.html>
<https://www.bls.gov/news.release/prin.nr0.htm>
<https://www.msha.gov/regulations/frequently-asked-questions>

For more information

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