

Global Smart Mining Market: Size, Trend, Share, Opportunity Analysis, and Forecast, 2014-2025

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Abstracts

Smart mining is the integration of information and communication technology (ICT) with operational functions, such as supply chain of the mining industry, enabling efficient connectivity among supervisors, workers, and technicians to allow optimal production and recovery. Smart mining also leads to least or no wastage at any level and provides enhanced safety and security to workers and operators. Robust adoption of Internet of Things (IoT) in smart mining increases operational efficiency and reduces downtime. Increased adoption of infrared sensors and safety & security solutions at the mining sites has led to remarkable growth of the smart mining market. The global smart mining market is expected to grow at a CAGR of 15.3% from 2017 to 2025.

The global smart mining market is segmented based on hardware components, system & solutions, services, methods, and geography. Based on hardware components, the market is divided into sensors, radio-frequency identification (RFID) tags, and intelligent systems. Based on system & solutions, it is categorized into smart assets, smart logistics, smart control systems, smart safety & security systems, and remote management solutions. By service, it is classified into support & maintenance, system integration, and consulting services. By method, the market is segmented into surface mining and underground mining. Geographic breakdown and deep analysis of each of the aforesaid segments have resulted in the following regions: North America, Europe, Asia-Pacific, and LAMEA.

MARKET DYNAMICS:

Drivers:

High cost efficiency

Enhanced safety and security of mine workers

Restraints:

Poor infrastructure in developing countries

Lack of qualified and skilled labor

MARKET PLAYERS:

The top players in the global smart mining market include ABB Group, Alastri, Cisco Systems, Inc., Hexagon AB, Intellisense.io., Rockwell Automation, SAP SE, Symbioticware Inc., Trimble Navigation Limited, and Thingworx.

KEY TAKEAWAYS

MARKET LANDSCAPE

By Hardware Component

Sensors

Radio-frequency Identification (RFID) Tags

Intelligent Systems

By System & Solutions

Smart Assets

Asset Performance Management

Asset Predictive Maintenance

Inventory and Asset Tracking

Smart Logistics

Fleet Management

Freight Management Systems

Smart Control Systems

Temperature Control Systems

Fuel Emission Control Systems

Air Quality Monitoring Systems

Smart Safety & Security Systems

Proximity Detection and Collision Avoidance System

Fatigue Monitoring System

Security

Remote Management Solutions

Health Monitoring

Workforce Management

Site Management

By Service

Support and Maintenance

System Integration

Consulting Services

By Method

Surface Mining

Underground Mining

By Geography

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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