

# **Smart Mining Market by Hardware Component (Sensors, RFID tags, Intelligent Systems), System & Solution (Logistics Software, Data & Operation Management Software, Safety & Security Systems, Connectivity Solutions, Analytics Solutions, Remote Management Solutions, Asset Management Solutions), Service (Support & Maintenance, System Integration, Consulting Services) - Global Opportunity Analysis and Industry Forecast, 2014 - 2022**

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## **Abstracts**

Smart mining refers to the use of information, autonomy, and technology to gain better productivity, safety, and reduce operational costs for a mine site. Mining companies focus to improve the productivity by offering innovative software & solutions. Smart mining also includes remote-controlled robotic machinery for mineral extraction, which is referred to as telerobotic mining and reduces the risk for miners. Caterpillar uses robots at Gabriela Mistral mine in Antofagasta to enrich the efficiency of maintenance services. Increased focus on safety & health, accelerating adoption of IoT (internet of things) solutions, and rise in adoption of autonomous equipment drives the market growth. However, absence of highly skilled and qualified labor, availability of poor infrastructure and government regulations concerning air, water and overall environment quality restrict the headway. Nonetheless, plant automation and upsurge in digital mining concepts are expected to strengthen the growth. Smart mining market generated a revenue of \$5,328 million in 2014 and is expected to reach a market value of \$15,837 million by 2022 with a CAGR of 14.9%.

The market is classified on the basis of type, category, and geography. Type wise, the market is segmented into underground mining and surface or open pit mining. By

category, the market is classified into automated equipment and component. The automated equipment includes excavators, load haul dump, drillers & brakers, robotic trucks, and other automated equipment. Excavators generated the highest revenue in the year 2014 owing to integration of high precision GPS system, laser scanners, and remote control solution while load haul dump is expected to generate notable revenue by 2022. Based on component, the market is categorized into hardware, software & solution, and services. Hardware component encompasses sensors, RFID tags, intelligent systems, and others. On the basis of software & solution, it is segmented into logistics software, data & operation management software, safety & security systems, connectivity solutions, analytics solutions, remote management solutions, and asset management solutions. By services, it is divided into support & maintenance (engineering services), system integration (deployment services), and consulting services. Geographically, the market is segmented into North America, Europe, Asia-Pacific, and LAMEA. Asia-Pacific contributed the highest revenue in 2014 and is expected to dominate the market during the forecast period. Key players that operate in this market are ABB Group, Rockwell Automation, Inc., Komatsu Ltd., Trimble Navigation Limited, Alastri, Caterpillar Inc., Hitachi Construction Machinery Co., Ltd., Joy Global Inc., Cisco Systems, Inc., and Hexagon AB.

## **KEY BENEFITS**

The report includes an in-depth analysis of the world smart mining market, along with the current trends, drivers, restraints, and growth opportunities.

Porter's Five Forces model illustrates the potency of buyers and sellers, which is expected to help the market players to adopt effective strategies.

Value chain analysis provides a clear understanding of the key intermediaries involved and their respective roles at every stage.

Key market players are profiled to gain an understanding of the strategies adopted by them.

The current market trends are quantitatively analyzed and estimated from 2016 to 2022, which are provided to highlight the financial competency of the market.

## **MARKET SEGMENTATION**

### **By Type**

*Smart Mining Market by Hardware Component (Sensors, RFID tags, Intelligent Systems), System & Solution (Logist...*

Underground Mining

Surface Mining (Open Pit Mining or Open Cast Mining)

## By Category

Automated Equipment

Excavator

Robotic Truck

Driller & Braker

Load Haul Dump

Other Automated Equipment

Component

Hardware

Sensors

RFID tags

Intelligent Systems

Others

Software & Solution

Logistics Software

Data & Operation Management Software

Safety & Security Systems

Connectivity Solutions

Analytics Solutions

Remote Management Solutions

Asset Management Solutions

Service

Support & Maintenance (Engineering Service)

System Integration (Deployment Service)

Consulting Services

By Geography

North America

U.S.

Canada

Mexico

Europe

Russia

Germany

UK

Sweden

Rest of Europe

## Asia-Pacific

China

Australia

Japan

South Korea

Rest of Asia-Pacific

## LAMEA

Latin America

Africa

Middle East

## KEY PLAYERS

ABB Group

Rockwell Automation, Inc.

Trimble Navigation Limited

Alastri

Caterpillar Inc.

Joy Global Inc.

Hitachi Construction Machinery Co., Ltd.

Komatsu Ltd.

Cisco Systems, Inc.

Hexagon AB

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FIG. 67 WORLD SUPPORT & MAINTENANCE MARKET REVENUE, 2014-2022 (\$MILLION)

FIG. 68 WORLD SUPPORT & MAINTENANCE MARKET SHARE ANALYSIS BY GEOGRAPHY, 2014-2022 (%)

FIG. 69 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD CONSULTING SERVICES MARKET, 2014 & 2022 (% SHARE)

FIG. 70 WORLD CONSULTING SERVICES MARKET REVENUE, 2014-2022 (\$MILLION)

FIG. 71 WORLD CONSULTING SERVICES MARKET SHARE ANALYSIS BY GEOGRAPHY, 2014-2022 (%)

FIG. 72 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD SYSTEM INTEGRATION MARKET, 2014 & 2022 (% SHARE)

FIG. 73 WORLD SYSTEM INTEGRATION MARKET REVENUE, 2014-2022 (\$MILLION)

FIG. 74 WORLD SYSTEM INTEGRATION MARKET SHARE ANALYSIS BY GEOGRAPHY, 2014-2022 (%)

FIG. 75 COMPARATIVE MARKET SHARE ANALYSIS OF WORLD SMART MINING MARKET BY CATEGORY, 2014 & 2022 (%)

FIG. 76 COMPARATIVE SMART MINING MARKET SHARE ANALYSIS OF NORTH AMERICAN MARKET, 2014 & 2022 (%)

FIG. 77 WORLD NORTH AMERICAN MARKET REVENUE, BY CATEGORY, 2014-2022 (\$MILLION)

FIG. 78 COMPARATIVE SMART MINING MARKET SHARE ANALYSIS OF EUROPEAN MARKET, 2014 & 2022 (%)

FIG. 79 WORLD EUROPEAN MARKET REVENUE, BY CATEGORY, 2014-2022 (\$MILLION)

FIG. 80 COMPARATIVE SMART MINING MARKET SHARE ANALYSIS OF ASIA-PACIFIC MARKET, 2014 & 2022 (%)

FIG. 81 WORLD ASIA-PACIFIC MARKET REVENUE, BY CATEGORY, 2014-2022 (\$MILLION)

FIG. 82 COMPARATIVE SMART MINING MARKET SHARE ANALYSIS OF LAMEA MARKET, 2014 & 2022 (%)

FIG. 83 WORLD LAMEA MARKET REVENUE, BY CATEGORY, 2014-2022 (\$MILLION)

FIG. 84 SALES OF ROCKWELL AUTOMATION, INC., 2013 - 2015, \$MILLION

FIG. 85 TOTAL SALES OF ROCKWELL AUTOMATION, INC., BY SEGMENT, 2015

(PERCENTAGE COMPARISON)

FIG. 86 TOTAL SALES OF ROCKWELL AUTOMATION, INC., BY GEOGRAPHY, 2015

(PERCENTAGE COMPARISON)

FIG. 87 REVENUE OF TRIMBLE NAVIGATION LIMITED, 2013 - 2015, \$MILLION

FIG. 88 REVENUE OF TRIMBLE NAVIGATION LIMITED BY BUSINESS SEGMENT

(%), 2015

FIG. 89 REVENUE OF TRIMBLE NAVIGATION LIMITED, BY GEOGRAPHY (%), 2013

FIG. 90 REVENUE OF CISCO SYSTEMS, INC., 2013 - 2015 (\$MILLION)

FIG. 91 TOTAL REVENUE OF CISCO SYSTEMS, INC., BY BUSINESS SEGMENT

(%), 2015

FIG. 92 TOTAL REVENUE OF CISCO SYSTEMS, INC., BY GEOGRAPHY (2015)

FIG. 93 ABB LTD.: REVENUE GENERATED, 2013 - 2015 (\$MILLION)

FIG. 94 ABB LTD.: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIG. 95 ABB LTD.: REVENUE BY GEOGRAPHY, 2015 (%)

FIG. 96 NET SALES OF HEXAGON, 2013 - 2015 (\$MILLION)

FIG. 97 NET SALES OF HEXAGON BY BUSINESS SEGMENT, 2015(%)

FIG. 98 NET SALES OF HEXAGON, BY GEOGRAPHY, 2015(%)

FIG. 99 NET SALES OF CATERPILLAR INC., 2013 - 2015 (\$MILLION)

FIG. 100 NET SALES OF CATERPILLAR INC. BY BUSINESS SEGMENT, 2015 (%)

FIG. 101 NET SALES OF CATERPILLAR INC., BY GEOGRAPHY, 2015(%)

FIG. 102 HITACHI LTD: SALES, 2013-2015 (\$BILLION)

FIG. 103 HITACHI LTD: SALES, BY SEGMENT, 2015 (%)

FIG. 104 HITACHI LTD: SALES, BY GEOGRAPHY, 2015 (%)

FIG. 105 KOMATSU LTD: REVENUE, 2013 - 2015 (\$BILLION)

FIG. 106 KOMATSU LTD: REVENUE, BY SEGMENT, 2015 (%)

FIG. 107 KOMATSU LTD: CONSTRUCTION, MINING AND UTILILITY SEGMENT

REVENUE, BY GEOGRAPHY, 2015 (%)

FIG. 108 JOY GLOBAL INC: REVENUE, 2013 - 2015 (\$MILLION)

FIG. 109 JOY GLOBAL INC: REVENUE, BY SEGMENT, 2015 (%)

FIG. 110 JOY GLOBAL INC: REVENUE, BY GEOGRAPHY, 2015 (%)

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