

Connected Mining Market Report by Component (Equipments, Software, Services), Equipment Type (Automated Mining Excavators, Load Haul Dump, Drillers and Breakers, and Others), Software and Services Type (Data/Operations/Asset Management and Security Software, Support and Maintenance Services, System Integration and Deployment Services, and Others), Mining Type (Surface Mining, Underground Mining), Solution Type (Connected Assets and Logistics Solutions, Connected Control Solutions, Connected Safety and Security Solutions, Remote Management Solutions, and Others), and Region 2024-2032

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Abstracts

The global connected mining market size reached US\$ 12.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 31.1 Billion by 2032, exhibiting a growth rate (CAGR) of 10.6% during 2024-2032. The global market is rapidly growing, primarily driven by continual technological advancements such as IoT and AI, an enhanced focus on safety and efficiency, and key players expanding through acquisitions, and leading in adoption and innovation.

Connected Mining Market Analysis:

Market Growth and Size: The global market is experiencing significant growth, driven by the increasing adoption of advanced technologies in mining operations. The market's

expansion is attributed to the rising need for operational efficiency, safety, and environmental sustainability in mining practices.

Major Market Drivers: Key drivers include technological advancements like IoT, AI, and ML, which enhance operational efficiency and safety. The focus on sustainability and reducing environmental impact, along with the need for cost reduction and operational optimization, further propel the market.

Technological Advancements: Rapid advancements in technology, particularly in IoT, AI, and machine learning, are revolutionizing mining operations. These technologies enable real-time monitoring, predictive maintenance, and automation, leading to more efficient and safer mining processes.

Industry Applications: Connected mining technologies find applications in various aspects of mining operations, including resource management, equipment monitoring, worker safety, and environmental sustainability. These applications are crucial in optimizing resource allocation, enhancing decision-making, and ensuring regulatory compliance.

Key Market Trends: The market is witnessing trends such as the integration of AI and analytics for predictive maintenance, adoption of remote operations and automation, and a growing emphasis on cybersecurity in mining operations. These trends reflect the industry's shift towards more data-driven and automated processes.

Geographical Trends: North America and Europe are leading in the adoption of connected mining technologies due to their advanced technological infrastructure and stringent safety and environmental regulations. The Asia Pacific region is also emerging as a significant market, driven by rapid industrialization and the presence of extensive mining activities.

Competitive Landscape: The market is characterized by the presence of major players, who are expanding its capabilities through strategic acquisitions and partnerships. These companies are focusing on R&D, customer-centric solutions, and expanding their global reach.

Challenges and Opportunities: Challenges include the high cost of implementation and the need for skilled personnel to manage advanced technologies. However, these challenges present opportunities for market players to innovate cost-effective solutions and offer training programs to build a skilled workforce. The increasing demand for sustainable and efficient mining practices also opens new avenues for growth in the market.

Connected Mining Market Trends:

Technological advancements in mining operations

A primary factor propelling the connected mining market is the rapid advancement in

technologies such as the Internet of Things (IoT), artificial intelligence (AI), and machine learning (ML). These technologies play a pivotal role in transforming traditional mining operations into more efficient, automated, and data-driven processes. The integration of IoT devices allows for real-time monitoring of equipment and environmental conditions, leading to improved safety and productivity. AI and ML algorithms enable predictive maintenance, reducing downtime and operational costs. Additionally, advanced data analytics tools are used for optimizing resource allocation and enhancing decision-making processes. As mines become more digitized, the demand for cybersecurity solutions to protect sensitive data and operations also increases, further driving technological investments in the mining sector.

Increasing focus on safety and sustainability

The connected mining market is significantly influenced by the growing emphasis on safety and environmental sustainability in mining operations. Connected technologies enable real-time monitoring of mine sites, improving worker safety by predicting hazardous situations and reducing accident risks. These technologies also facilitate remote operations, which can minimize the need for human presence in dangerous environments. Moreover, sustainability concerns are leading to the adoption of systems that can monitor and reduce the environmental impact of mining activities. For example, technologies that track energy consumption and emissions help in adhering to environmental regulations and reducing carbon footprints. The use of connected technologies in water and waste management ensures more sustainable resource usage. Governments and regulatory bodies are increasingly mandating the use of such technologies, which further drives the adoption of connected mining solutions.

Operational efficiency and cost reduction

The pursuit of operational efficiency and cost reduction is another major driver for the connected mining market. Connected mining technologies offer significant improvements in operational efficiency by enabling better resource management, optimizing mine planning, and reducing wastage. Real-time data collection and analysis lead to more informed and timely decisions, streamlining various mining processes. Automation of repetitive and routine tasks not only increases efficiency but also reduces labor costs and minimizes human errors. Additionally, predictive analytics help in anticipating equipment failures and scheduling maintenance, thereby avoiding costly unplanned downtimes. In an industry where profit margins can be significantly impacted by operational costs, these technologies provide a competitive advantage by enhancing productivity and reducing expenses, making them an essential investment for mining

companies.

Connected Mining Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on component, equipment breakup by type, software and services breakup by type, mining type, and solution type.

Breakup by Component:

Equipments

Software

Services

Services account for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the component. This includes equipments, software, and services. According to the report, services represented the largest segment.

Services segment in the market is driven by the need for enhanced operational efficiency, cost reduction, and improved safety standards. The integration of advanced technologies like AI and IoT in mining operations necessitates expert services for optimal functioning. These services ensure that mining equipment and software are maintained at peak performance, reducing downtime and extending equipment life. Additionally, they provide training and support to the workforce, crucial for adopting new technologies and ensuring safety in increasingly automated environments.

On the other hand, equipment enhanced with connectivity and data analytics plays a vital role in automating and optimizing mining processes. These advanced tools improve accuracy, efficiency, and safety, allowing for more precise extraction and resource handling. They also enable real-time monitoring and maintenance, reducing downtime and extending the equipment's operational lifespan. Furthermore, connected equipment facilitates better environmental monitoring, ensuring compliance with regulatory standards and minimizing ecological impact.

Moreover, software solutions in the connected mining sector are integral for efficient data processing, operational management, and strategic decision-making. They enable seamless integration and interpretation of data from diverse mining operations, offering

insights that optimize productivity and resource utilization. These software platforms also facilitate predictive analytics for equipment maintenance, reducing unplanned downtime.

Equipment Breakup by Type:

Automated Mining Excavators
Load Haul Dump
Drillers and Breakers
Others

A detailed breakup and analysis of the market based on the equipment breakup by type have also been provided in the report. This includes automated mining excavators, load haul dump, drillers and breakers, and others.

Software and Services Breakup by Type:

Data/Operations/Asset Management and Security Software
Support and Maintenance Services
System Integration and Deployment Services
Others

System integration and deployment services represent the leading market segment

The report has provided a detailed breakup and analysis of the market based on the software and services breakup by type. This includes data/operations/asset management and security software, support and maintenance services, system integration and deployment services, and others. According to the report, system integration and deployment services represented the largest segment.

Breakup by Mining Type:

Surface Mining
Underground Mining

Underground mining exhibits a clear dominance in the market

A detailed breakup and analysis of the market based on the mining type have also been provided in the report. This includes surface mining and underground mining. According

to the report, underground mining accounted for the largest market share.

Breakup by Solution Type:

- Connected Assets and Logistics Solutions
- Connected Control Solutions
- Connected Safety and Security Solutions
- Remote Management Solutions
- Others

Connected assets and logistics solutions dominate the market

The report has provided a detailed breakup and analysis of the market based on the solution type. This includes connected assets and logistics solutions, connected control solutions, connected safety and security solutions, remote management solutions, and others. According to the report, connected assets and logistics solutions represented the largest segment.

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain
 - Russia
 - Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Asia-Pacific leads the market, accounting for the largest connected mining market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia-Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

ABB Group

Accenture Plc

Alastri

Cisco Systems Inc.

Hexagon AB

Intellisense.io

Rockwell Automation

SAP SE

Symboticware Inc.

Trimble Inc.

Key Questions Answered in This Report

1. What was the size of the global connected mining market in 2023?
2. What is the expected growth rate of the global connected mining market during 2024-2032?
3. What are the key factors driving the global connected mining market?
4. What has been the impact of COVID-19 on the global connected mining market?
5. What is the breakup of the global connected mining market based on the component?

6. What is the breakup of the global connected mining market based on the software and services type?
7. What is the breakup of the global connected mining market based on the mining type?
8. What is the breakup of the global connected mining market based on the solution type?
9. What are the key regions in the global connected mining market?
10. Who are the key players/companies in the global connected mining market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL CONNECTED MINING MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY COMPONENT

- 6.1 Equipments
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Software
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Services

6.3.1 Market Trends

6.3.2 Market Forecast

7 EQUIPMENT MARKET BREAKUP BY TYPE

7.1 Automated Mining Excavators

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Load Haul Dump

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Drillers and Breakers

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Others

7.4.1 Market Trends

7.4.2 Market Forecast

8 SOFTWARE AND SERVICES MARKET BREAKUP BY TYPE

8.1 Data/Operations/Asset Management and Security Software

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Support and Maintenance Services

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 System Integration and Deployment Services

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Others

8.4.1 Market Trends

8.4.2 Market Forecast

9 MARKET BREAKUP BY MINING TYPE

9.1 Surface Mining

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Underground Mining

9.2.1 Market Trends

9.2.2 Market Forecast

10 MARKET BREAKUP BY SOLUTION TYPE

10.1 Connected Assets and Logistics Solutions

10.1.1 Market Trends

10.1.2 Market Forecast

10.2 Connected Control Solutions

10.2.1 Market Trends

10.2.2 Market Forecast

10.3 Connected Safety and Security Solutions

10.3.1 Market Trends

10.3.2 Market Forecast

10.4 Remote Management Solutions

10.4.1 Market Trends

10.4.2 Market Forecast

10.5 Others

10.5.1 Market Trends

10.5.2 Market Forecast

11 MARKET BREAKUP BY REGION

11.1 North America

11.1.1 United States

11.1.1.1 Market Trends

11.1.1.2 Market Forecast

11.1.2 Canada

11.1.2.1 Market Trends

11.1.2.2 Market Forecast

11.2 Asia-Pacific

11.2.1 China

11.2.1.1 Market Trends

11.2.1.2 Market Forecast

11.2.2 Japan

11.2.2.1 Market Trends

11.2.2.2 Market Forecast

11.2.3 India

11.2.3.1 Market Trends

- 11.2.3.2 Market Forecast
- 11.2.4 South Korea
 - 11.2.4.1 Market Trends
 - 11.2.4.2 Market Forecast
- 11.2.5 Australia
 - 11.2.5.1 Market Trends
 - 11.2.5.2 Market Forecast
- 11.2.6 Indonesia
 - 11.2.6.1 Market Trends
 - 11.2.6.2 Market Forecast
- 11.2.7 Others
 - 11.2.7.1 Market Trends
 - 11.2.7.2 Market Forecast
- 11.3 Europe
 - 11.3.1 Germany
 - 11.3.1.1 Market Trends
 - 11.3.1.2 Market Forecast
 - 11.3.2 France
 - 11.3.2.1 Market Trends
 - 11.3.2.2 Market Forecast
 - 11.3.3 United Kingdom
 - 11.3.3.1 Market Trends
 - 11.3.3.2 Market Forecast
 - 11.3.4 Italy
 - 11.3.4.1 Market Trends
 - 11.3.4.2 Market Forecast
 - 11.3.5 Spain
 - 11.3.5.1 Market Trends
 - 11.3.5.2 Market Forecast
 - 11.3.6 Russia
 - 11.3.6.1 Market Trends
 - 11.3.6.2 Market Forecast
 - 11.3.7 Others
 - 11.3.7.1 Market Trends
 - 11.3.7.2 Market Forecast
- 11.4 Latin America
 - 11.4.1 Brazil
 - 11.4.1.1 Market Trends
 - 11.4.1.2 Market Forecast

- 11.4.2 Mexico
 - 11.4.2.1 Market Trends
 - 11.4.2.2 Market Forecast
- 11.4.3 Others
 - 11.4.3.1 Market Trends
 - 11.4.3.2 Market Forecast
- 11.5 Middle East and Africa
 - 11.5.1 Market Trends
 - 11.5.2 Market Breakup by Country
 - 11.5.3 Market Forecast

12 SWOT ANALYSIS

- 12.1 Overview
- 12.2 Strengths
- 12.3 Weaknesses
- 12.4 Opportunities
- 12.5 Threats

13 VALUE CHAIN ANALYSIS

14 PORTERS FIVE FORCES ANALYSIS

- 14.1 Overview
- 14.2 Bargaining Power of Buyers
- 14.3 Bargaining Power of Suppliers
- 14.4 Degree of Competition
- 14.5 Threat of New Entrants
- 14.6 Threat of Substitutes

15 PRICE ANALYSIS

16 COMPETITIVE LANDSCAPE

- 16.1 Market Structure
- 16.2 Key Players
- 16.3 Profiles of Key Players
 - 16.3.1 ABB Group
 - 16.3.1.1 Company Overview

- 16.3.1.2 Product Portfolio
- 16.3.1.3 Financials
- 16.3.1.4 SWOT Analysis
- 16.3.2 Accenture Plc
 - 16.3.2.1 Company Overview
 - 16.3.2.2 Product Portfolio
 - 16.3.2.3 Financials
 - 16.3.2.4 SWOT Analysis
- 16.3.3 Alastri
 - 16.3.3.1 Company Overview
 - 16.3.3.2 Product Portfolio
- 16.3.4 Cisco Systems Inc.
 - 16.3.4.1 Company Overview
 - 16.3.4.2 Product Portfolio
 - 16.3.4.3 Financials
 - 16.3.4.4 SWOT Analysis
- 16.3.5 Hexagon AB
 - 16.3.5.1 Company Overview
 - 16.3.5.2 Product Portfolio
 - 16.3.5.3 Financials
 - 16.3.5.4 SWOT Analysis
- 16.3.6 Intellisense.io
 - 16.3.6.1 Company Overview
 - 16.3.6.2 Product Portfolio
 - 16.3.6.3 Financials
- 16.3.7 Rockwell Automation
 - 16.3.7.1 Company Overview
 - 16.3.7.2 Product Portfolio
 - 16.3.7.3 Financials
 - 16.3.7.4 SWOT Analysis
- 16.3.8 SAP SE
 - 16.3.8.1 Company Overview
 - 16.3.8.2 Product Portfolio
 - 16.3.8.3 Financials
 - 16.3.8.4 SWOT Analysis
- 16.3.9 Symboticware Inc.
 - 16.3.9.1 Company Overview
 - 16.3.9.2 Product Portfolio
- 16.3.10 Trimble Inc.

16.3.10.1 Company Overview

16.3.10.2 Product Portfolio

16.3.10.3 Financials

16.3.10.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Connected Mining Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Connected Mining Market Forecast: Breakup by Component (in Million US\$), 2024-2032

Table 3: Global: Connected Mining (Equipment) Market Forecast: Breakup by Type (in Million US\$), 2024-2032

Table 4: Global: Connected Mining (Software and Services) Market Forecast: Breakup by Type (in Million US\$), 2024-2032

Table 5: Global: Connected Mining Market Forecast: Breakup by Mining Type (in Million US\$), 2024-2032

Table 6: Global: Connected Mining Market Forecast: Breakup by Solution Type (in Million US\$), 2024-2032

Table 7: Global: Connected Mining Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 8: Global: Connected Mining Market: Competitive Structure

Table 9: Global: Connected Mining Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Connected Mining Market: Major Drivers and Challenges

Figure 2: Global: Connected Mining Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Connected Mining Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Connected Mining Market: Breakup by Component (in %), 2023

Figure 5: Global: Connected Mining (Equipment) Market: Breakup by Type (in %), 2023

Figure 6: Global: Connected Mining (Software and Services) Market: Breakup by Type (in %), 2023

Figure 7: Global: Connected Mining Market: Breakup by Mining Type (in %), 2023

Figure 8: Global: Connected Mining Market: Breakup by Solution Type (in %), 2023

Figure 9: Global: Connected Mining Market: Breakup by Region (in %), 2023

Figure 10: Global: Connected Mining (Equipments) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Connected Mining (Equipments) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Connected Mining (Software) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Connected Mining (Software) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Connected Mining (Services) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Connected Mining (Services) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Connected Mining Equipment (Automated Mining Excavators) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Connected Mining Equipment (Automated Mining Excavators) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Connected Mining Equipment (Load Haul Dump) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Connected Mining Equipment (Load Haul Dump) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Connected Mining Equipment (Drillers and Breakers) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Connected Mining Equipment (Drillers and Breakers) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: Global: Connected Mining Equipment (Other Equipments) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Connected Mining Equipment (Other Equipments) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Connected Mining Software (Data/Operations/Asset Management and Security Software) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Connected Mining Software (Data/Operations/Asset Management and Security Software) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Connected Mining Services (Support and Maintenance Services) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Connected Mining Services (Support and Maintenance Services) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Connected Mining Services (System Integration and Deployment Services) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Connected Mining Services (System Integration and Deployment Services) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Connected Mining Services (Other Software and Services) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Connected Mining Services (Other Software and Services) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: Connected Mining (Surface Mining) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: Connected Mining (Surface Mining) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: Connected Mining (Underground Mining) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: Connected Mining (Underground Mining) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Global: Connected Mining (Connected Assets and Logistics Solutions) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Global: Connected Mining (Connected Assets and Logistics Solutions) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: Global: Connected Mining (Connected Control Solutions) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: Global: Connected Mining (Connected Control Solutions) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: Global: Connected Mining (Connected Safety and Security Solutions) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: Global: Connected Mining (Connected Safety and Security Solutions) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: Global: Connected Mining (Remote Management Solutions) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: Global: Connected Mining (Remote Management Solutions) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Global: Connected Mining (Other Solution Types) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Global: Connected Mining (Other Solution Types) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: North America: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: United States: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: United States: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Canada: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Canada: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: North America: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: Asia Pacific: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: China: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: China: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Japan: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Japan: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: India: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: India: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: South Korea: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: South Korea: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Australia: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Australia: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

2024-2032

Figure 63: Indonesia: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Indonesia: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Others: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Others: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Asia Pacific: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: Europe: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Germany: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Germany: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: France: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: France: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: United Kingdom: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: United Kingdom: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Italy: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Italy: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Spain: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Spain: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 79: Russia: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Russia: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 81: Others: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 82: Others: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 83: Europe: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 84: Latin America: Connected Mining Market: Sales Value (in Million US\$), 2018

& 2023

Figure 85: Brazil: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 86: Brazil: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 87: Mexico: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 88: Mexico: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 89: Others: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 90: Others: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 91: Latin America: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 92: Middle East and Africa: Connected Mining Market: Sales Value (in Million US\$), 2018 & 2023

Figure 93: Middle East and Africa: Connected Mining Market: Breakup by Country (in %), 2023

Figure 94: Middle East and Africa: Connected Mining Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 95: Global: Connected Mining Industry: SWOT Analysis

Figure 96: Global: Connected Mining Industry: Value Chain Analysis

Figure 97: Global: Connected Mining Industry: Porter's Five Forces Analysis

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