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Smart Highway Market Report by Component (Hardware, Software, Service), Deployment Model (On-premises, Cloud-based), Technology (Intelligent Transportation Management System, Intelligent Traffic Management System, Communication System, Monitoring System, and Others), and Region 2024-2032

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Abstracts

The global smart highway market size reached US$ 49.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 177.8 Billion by 2032, exhibiting a growth rate (CAGR) of 14.9% during 2024-2032. The increasing traffic congestion and safety concerns, significant advancements in technology, increasing initiatives and funding to improve infrastructure, growing demand for sustainable transportation, emergence of connected and autonomous vehicles, collaborative efforts between governments and private companies, and rising urbanization are some of the major factors propelling the market.

Smart highway refers to an innovative concept in transportation infrastructure that leverages advanced technologies to enhance safety, efficiency, and sustainability on roadways. These intelligent road systems integrate various cutting-edge features to create a more responsive and adaptable environment for drivers and vehicles. One key element of a smart highway is the incorporation of smart sensors and cameras, along with the road network to collect real-time data on traffic flow, weather conditions, and road hazards. This data is then analyzed and processed by intelligent systems, enabling automated traffic management and predictive maintenance. Smart highways often include dynamic lane markings and signage that can adjust according to changing traffic conditions, providing real-time guidance to drivers and optimizing lane usage.

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Additionally, advanced communication systems enable vehicle-to-infrastructure (V2I) and vehicle-to-vehicle (V2V) connectivity, fostering cooperative driving and collision avoidance. Beyond the immediate benefits to drivers and commuters, smart highways also contribute to sustainability efforts by optimizing energy consumption through smart lighting and utilizing renewable energy sources. By incorporating smart charging infrastructure for electric vehicles, these highways promote eco-friendly transportation alternatives.

Rapid urbanization and population growth have led to increased traffic congestion and a rise in road accidents. Smart highways offer solutions such as real-time traffic management, adaptive traffic control systems, and intelligent signage, thus reducing congestion and enhancing road safety. Additionally, with growing environmental concerns, there is a rising demand for sustainable transportation options. Consequently, smart highways are constructed as they offer energy-efficient solutions through smart lighting, renewable energy integration, and support for electric vehicles, aligning with the global push for greener mobility. Besides this, the emergence of connected and automated vehicles (CAVs) has accelerated the demand for smart highways as these vehicles rely on real-time data and communication with the road infrastructure for safe and efficient navigation, creating a symbiotic relationship between the two. Other than this, collaborative efforts between governments and private companies play a crucial role in the expansion of the market. Public private partnerships (PPPs) facilitate the funding and implementation of large-scale projects, enabling the integration of advanced technologies into existing road networks. In line with this, urban areas face the greatest challenges in terms of traffic management and pollution. Smart highways provide viable solutions for smart cities, attracting investment and driving market growth. Moreover, the continuous advancements in sensor technology, Internet of Things (IoT) devices, and artificial intelligence have enabled the development of smart and connected infrastructure. These technologies support the implementation of smart highways, allowing for data-driven decision-making and efficient traffic management. Moreover, governments worldwide are increasingly recognizing the importance of smart transportation solutions. They are investing in projects to improve overall infrastructure, reduce carbon emissions, and enhance transportation efficiency, which further boosts market growth.

Smart Highway Market Trends/Drivers:

Technological Advancements

Breakthroughs in sensor technology, communication systems, and artificial intelligence

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have paved the way for innovative solutions in transportation. Smart Highways leverage these technologies to collect real-time data on traffic patterns, weather conditions, and road hazards. Advanced sensors and cameras enable automated traffic management, optimizing traffic flow and minimizing congestion. Moreover, intelligent algorithms process the gathered data to offer predictive maintenance, enhancing the longevity of road infrastructure. As technology continues to evolve, it opens up new possibilities for further enhancing the efficiency and safety of Smart Highways, attracting more investments and driving market expansion.

Government Initiatives and Funding

Governments worldwide are recognizing the potential benefits of smart transportation solutions and are actively investing in upgrading their road infrastructure. They implement policies and initiatives to promote the integration of intelligent technologies into highways, such as incentivizing the development of smart charging infrastructure for electric vehicles and supporting research and development projects. Additionally, public-private partnerships (PPPs) are being established to fund and execute large-scale Smart Highway projects. Government backing not only provides the necessary financial resources but also signals to private investors and market players the viability and importance of Smart Highways, driving further growth in the industry.

Demand for Sustainable Transportation

With rising environmental concerns and the need to reduce carbon emissions, Smart Highways offer a promising path towards greener mobility. By integrating renewable energy sources, such as solar panels, into the infrastructure, Smart Highways can generate clean energy to power the lighting and other systems. Moreover, by supporting electric vehicles through smart charging stations, they encourage the adoption of eco-friendly transportation alternatives. As sustainability becomes a top priority for governments and consumers alike, the demand for Smart Highways that promote energy efficiency and reduce environmental impact continues to grow, bolstering the market's expansion.

Smart Highway Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global smart highway market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on component, deployment model, and technology.

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Breakup by Component:

Hardware

Software

Service

Hardware dominates the market

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

Hardware components form the foundational infrastructure of smart highways, encompassing a wide array of essential elements such as sensors, cameras, traffic management systems, and communication devices. These hardware components are critical for collecting real-time data, monitoring traffic conditions, and ensuring seamless connectivity across the smart highway network. Moreover, the demand for hardware in the smart highway sector is driven by the increasing emphasis on enhancing road safety, optimizing traffic flow, and improving overall transportation efficiency. The deployment of advanced hardware solutions allows for intelligent traffic management, adaptive signage, and incident detection, leading to reduced congestion and improved road user experiences. Furthermore, ongoing technological advancements in hardware, including cost-effectiveness and energy efficiency, have further bolstered its prominence in the market. As smart highway projects continue to gain traction globally, investments in robust and reliable hardware solutions are expected to remain robust, solidifying the hardware segment's dominant position in the market breakdown by component.

Breakup by Deployment Model:

On-premises

Cloud-based

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On-premises hold the largest share in the market

A detailed breakup and analysis of the market based on the deployment model has also been provided in the report. This includes on-premises and cloud-based. According to the report, on-premises accounted for the largest market share.

On-premises deployment refers to the practice of hosting and managing smart highway infrastructure and applications within the premises of the organization or the government agency responsible for the highway management. One of the primary factors driving the prevalence of on-premises deployment is the critical need for data security and control. Smart highways involve the collection and processing of vast amounts of sensitive data, including real-time traffic information, vehicle data, and user behavior patterns. By adopting an on-premises deployment approach, stakeholders can maintain full control over their data, ensuring that it remains within their protected networks, which is particularly crucial in the context of privacy regulations and cybersecurity concerns. Additionally, on-premises deployment offers a higher level of customization and flexibility compared to other deployment models. Smart highway projects often have unique requirements and specifications based on the geographical and infrastructural characteristics of the region. With on-premises deployment, organizations can tailor the smart highway system to meet their specific needs, incorporating specialized hardware and software configurations as deemed necessary. Furthermore, some regions or countries may have limited or unreliable internet connectivity, especially in remote areas where smart highways are crucial for improving transportation efficiency and safety. In such cases, an on-premises approach ensures continuous functionality and data processing, without dependence on external internet connections.

Breakup by Technology:

Intelligent Transportation Management System

Lane Departure Warning System (LDW)

Automatic Number Plate Recognition (ANPR)

Incident Detection System

Radio Frequency Identification (RFID)

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Intelligent Traffic Management System

Electronic Toll Collection System

Global Navigation Satellite System (GNSS)/Global Positioning System (GPS)

Real-Time Traffic Management

Communication System

Radio Network

Emergency Network

Data Network

Monitoring System

Traffic Measurement

Weather Management

Video Surveillance

Others

Intelligent Transportation Management System dominate the market

The report has provided a detailed breakup and analysis of the market based on technology. This includes intelligent transportation management system (lane departure warning system (LDW), automatic number plate recognition (ANPR), incident detection system, and radio frequency identification (RFID)), intelligent traffic management system (electronic toll collection system, global navigation satellite system (GNSS)/global positioning system (GPS), and real-time traffic management), communication system (radio network, emergency network, and data network), monitoring system (traffic measurement, weather management, and video surveillance), and others. According to the report, intelligent transportation management systems represented the largest segment.

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The intelligent transportation management system (ITMS) holds the position of the largest segment in the market breakup by technology within the smart highway industry due to its pivotal role in revolutionizing transportation efficiency and safety. ITMS leverages cutting-edge technologies and data analytics to monitor, control, and optimize various aspects of traffic management on smart highways. Through a network of sensors, cameras, and communication devices, ITMS collects real-time data on traffic flow, road conditions, and incidents, enabling authorities to make informed decisions promptly. The significance of ITMS lies in its ability to alleviate traffic congestion, reduce travel time, and enhance overall road safety. By dynamically adjusting traffic signals, controlling variable message signs, and managing toll systems, ITMS optimizes traffic flow and minimizes bottlenecks. Additionally, it facilitates incident detection and response, allowing for rapid intervention during accidents or emergencies, thereby mitigating potential risks and improving emergency services. Furthermore, the data-driven insights provided by ITMS enable authorities to implement proactive planning and predictive maintenance strategies, ensuring the longevity and reliability of smart highway infrastructures. As cities and countries worldwide focus on developing intelligent transportation solutions, the demand for ITMS continues to surge, solidifying its position as the leading technology segment within the smart highway industry.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

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Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America exhibits a clear dominance in the market

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

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North America was the largest market.

North America is characterized by a highly developed and extensive road infrastructure, which creates a strong foundation for the implementation of smart highway technologies. The existing highway networks provide an ideal platform for integrating advanced technologies, such as sensors, communication systems, and intelligent traffic management solutions, resulting in improved overall efficiency and safety. Additionally, governments and transportation authorities in North America have shown a proactive approach towards embracing innovative solutions to address the challenges of urbanization, population growth, and traffic congestion. The region's commitment to investing in smart city initiatives and sustainable transportation has fostered a conducive environment for the deployment of smart highway technologies. Moreover, the presence of leading technology companies and research institutions in North America has contributed significantly to the development and advancement of smart highway solutions. The region's technological expertise and research capabilities have led to the creation of cutting-edge products and services that cater to the specific needs of the smart highway industry. Furthermore, favorable government policies and initiatives aimed at promoting intelligent transportation systems have played a crucial role in driving the growth of the smart highway market in North America. Incentives, grants, and funding support for smart infrastructure projects have encouraged public and private sector stakeholders to invest in and adopt smart highway technologies.

Competitive Landscape:

Major players in the market invest heavily in research and development to advance the technology and capabilities of smart transportation solutions. They conduct extensive R&D activities to improve sensors, communication systems, artificial intelligence algorithms, and other components crucial to the functioning of Smart Highways. These efforts focus on enhancing real-time data collection, traffic management, and predictive maintenance, enabling safer and more efficient road networks. Additionally, key players engage in strategic collaborations and partnerships to leverage each other's expertise and resources. Government agencies collaborate with technology companies and infrastructure developers to jointly fund and execute large-scale Smart Highway projects. Moreover, collaborations between technology providers and automotive manufacturers facilitate the integration of smart features into connected and autonomous vehicles (CAVs), fostering the development of intelligent transportation ecosystems. Other than this, numerous key players initiate pilot projects and conduct live demonstrations of Smart Highway technologies to showcase their effectiveness and benefits. These pilot projects serve as testbeds to validate the practicality of various

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smart transportation solutions in real-world scenarios. The results and success stories from these demonstrations help build confidence among potential investors and stakeholders, encouraging further investments in the Smart Highway market. Besides this, leading players in the industry actively advocate for the adoption of Smart Highways by promoting the benefits of these technologies to governments and the public. They participate in policy discussions, providing valuable insights to policymakers about the potential impact of smart transportation on traffic management, safety, and sustainability. Additionally, they work closely with regulatory bodies to establish standards and guidelines for the implementation of Smart Highway technologies.

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

Cisco Systems Inc.

Honeywell International Inc.

Huawei Technologies Co Ltd.

Indra Sistemas S.A.

Infineon Technologies AG

International Business Machines Corporation

Kapsch Aktiengesellschaft

LG CNS (LG Corporation)

Nokia Oyj

Schneider Electric SE

Siemens AG

Xerox Holdings Corporation

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Recent Developments:

Indra Sistemas S.A. embarked on a groundbreaking initiative to deploy an advanced traffic management platform tailored for connected highways. This cutting-edge solution is set to revolutionize the transportation landscape by harnessing crucial data derived from vehicles and state-of-the-art sensors.

Kapsch Aktiengesellschaft was acquired by Safety21 a prominent player in the field of Smart City and Smart Road solutions. Through this strategic acquisition, Safety21 aims to enhance its capabilities in delivering cutting-edge technologies and services tailored to the needs of Smart Cities and Smart Roads. Kapsch TrafficCom Italia's expertise and resources will be integrated seamlessly into Safety21's existing portfolio, enabling the company to offer an even more comprehensive suite of solutions to its clients.

Siemens AG successfully concluded the acquisition of Brightly. This acquisition comes as a strategic response to the growing demand for advanced digital solutions in the building industry. With Brightly's innovative software solutions, Siemens aims to provide comprehensive and cutting-edge tools that optimize building performance, energy efficiency, and occupant comfort.

Key Questions Answered in This Report:

How has the global smart highway market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global smart highway market?

What is the impact of each driver, restraint, and opportunity on the global smart highway market?

What are the key regional markets?

Which countries represent the most attractive smart highway market?

What is the breakup of the market based on the component?

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Which is the most attractive component in the smart highway market?

What is the breakup of the market based on the deployment model?

Which is the most attractive deployment model in the smart highway market?

What is the breakup of the market based on technology?

Which is the most attractive technology in the smart highway market?

What is the competitive structure of the global smart highway market?

Who are the key players/companies in the global smart highway market?

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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 SMART HIGHWAY 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 Hardware
  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 Service

+44 20 8123 2220
info@marketpublishers.com

6.3.1 Market Trends
6.3.2 Market Forecast

7 MARKET BREAKUP BY DEPLOYMENT MODEL

7.1 On-premises
7.1.1 Market Trends
7.1.2 Market Forecast
7.2 Cloud-based
7.2.1 Market Trends
7.2.2 Market Forecast

8 MARKET BREAKUP BY TECHNOLOGY

8.1 Intelligent Transportation Management System
8.1.1 Market Trends
8.1.2 Key Segments
8.1.2.1 Lane Departure Warning System (LDW)
8.1.2.2 Automatic Number Plate Recognition (ANPR)
8.1.2.3 Incident Detection System
8.1.2.4 Radio Frequency Identification (RFID)
8.1.3 Market Forecast
8.2 Intelligent Traffic Management System
8.2.1 Market Trends
8.2.2 Key Segments
8.2.2.1 Electronic Toll Collection System
8.2.2.2 Global Navigation Satellite System (GNSS)/Global Positioning System (GPS)
8.2.2.3 Real-Time Traffic Management
8.2.3 Market Forecast
8.3 Communication System
8.3.1 Market Trends
8.3.2 Key Segments
8.3.2.1 Radio Network
8.3.2.2 Emergency Network
8.3.2.3 Data Network
8.3.3 Market Forecast
8.4 Monitoring System
8.4.1 Market Trends
8.4.2 Key Segments

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info@marketpublishers.com

8.4.2.1 Traffic Measurement
8.4.2.2 Weather Management
8.4.2.3 Video Surveillance
8.4.3 Market Forecast
8.5 Others
8.5.1 Market Trends
8.5.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America
9.1.1 United States
9.1.1.1 Market Trends
9.1.1.2 Market Forecast
9.1.2 Canada
9.1.2.1 Market Trends
9.1.2.2 Market Forecast
9.2 Asia-Pacific
9.2.1 China
9.2.1.1 Market Trends
9.2.1.2 Market Forecast
9.2.2 Japan
9.2.2.1 Market Trends
9.2.2.2 Market Forecast
9.2.3 India
9.2.3.1 Market Trends
9.2.3.2 Market Forecast
9.2.4 South Korea
9.2.4.1 Market Trends
9.2.4.2 Market Forecast
9.2.5 Australia
9.2.5.1 Market Trends
9.2.5.2 Market Forecast
9.2.6 Indonesia
9.2.6.1 Market Trends
9.2.6.2 Market Forecast
9.2.7 Others
9.2.7.1 Market Trends
9.2.7.2 Market Forecast

+44 20 8123 2220
info@marketpublishers.com

9.3 Europe
9.3.1 Germany
9.3.1.1 Market Trends
9.3.1.2 Market Forecast
9.3.2 France
9.3.2.1 Market Trends
9.3.2.2 Market Forecast
9.3.3 United Kingdom
9.3.3.1 Market Trends
9.3.3.2 Market Forecast
9.3.4 Italy
9.3.4.1 Market Trends
9.3.4.2 Market Forecast
9.3.5 Spain
9.3.5.1 Market Trends
9.3.5.2 Market Forecast
9.3.6 Russia
9.3.6.1 Market Trends
9.3.6.2 Market Forecast
9.3.7 Others
9.3.7.1 Market Trends
9.3.7.2 Market Forecast
9.4 Latin America
9.4.1 Brazil
9.4.1.1 Market Trends
9.4.1.2 Market Forecast
9.4.2 Mexico
9.4.2.1 Market Trends
9.4.2.2 Market Forecast
9.4.3 Others
9.4.3.1 Market Trends
9.4.3.2 Market Forecast
9.5 Middle East and Africa
9.5.1 Market Trends
9.5.2 Market Breakup by Country
9.5.3 Market Forecast

10 SWOT ANALYSIS

+44 20 8123 2220
info@marketpublishers.com

10.1 Overview
10.2 Strengths
10.3 Weaknesses
10.4 Opportunities
10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview
12.2 Bargaining Power of Buyers
12.3 Bargaining Power of Suppliers
12.4 Degree of Competition
12.5 Threat of New Entrants
12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure
14.2 Key Players
14.3 Profiles of Key Players
14.3.1 Cisco Systems Inc.
14.3.1.1 Company Overview
14.3.1.2 Product Portfolio
14.3.1.3 Financials
14.3.1.4 SWOT Analysis
14.3.2 Honeywell International Inc.
14.3.2.1 Company Overview
14.3.2.2 Product Portfolio
14.3.2.3 Financials
14.3.2.4 SWOT Analysis
14.3.3 Huawei Technologies Co Ltd.
14.3.3.1 Company Overview
14.3.3.2 Product Portfolio
14.3.4 Indra Sistemas S.A.
14.3.4.1 Company Overview

+44 20 8123 2220
info@marketpublishers.com

14.3.4.2 Product Portfolio
14.3.4.3 Financials
14.3.4.4 SWOT Analysis
14.3.5 Infineon Technologies AG
14.3.5.1 Company Overview
14.3.5.2 Product Portfolio
14.3.5.3 Financials
14.3.5.4 SWOT Analysis
14.3.6 International Business Machines Corporation
14.3.6.1 Company Overview
14.3.6.2 Product Portfolio
14.3.6.3 Financials
14.3.6.4 SWOT Analysis
14.3.7 Kapsch Aktiengesellschaft
14.3.7.1 Company Overview
14.3.7.2 Product Portfolio
14.3.8 LG CNS (LG Corporation)
14.3.8.1 Company Overview
14.3.8.2 Product Portfolio
14.3.9 Nokia Oyj
14.3.9.1 Company Overview
14.3.9.2 Product Portfolio
14.3.9.3 Financials
14.3.9.4 SWOT Analysis
14.3.10 Schneider Electric SE
14.3.10.1 Company Overview
14.3.10.2 Product Portfolio
14.3.10.3 Financials
14.3.10.4 SWOT Analysis
14.3.11 Siemens AG
14.3.11.1 Company Overview
14.3.11.2 Product Portfolio
14.3.11.3 Financials
14.3.11.4 SWOT Analysis
14.3.12 Xerox Holdings Corporation
14.3.12.1 Company Overview
14.3.12.2 Product Portfolio
14.3.12.3 Financials
14.3.12.4 SWOT Analysis

+44 20 8123 2220
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List Of Tables

LIST OF TABLES

Table 1: Global: Smart Highway Market: Key Industry Highlights, 2023 and 2032
Table 2: Global: Smart Highway Market Forecast: Breakup by Component (in Million US$), 2024-2032
Table 3: Global: Smart Highway Market Forecast: Breakup by Deployment Model (in Million US$), 2024-2032
Table 4: Global: Smart Highway Market Forecast: Breakup by Technology (in Million US$), 2024-2032
Table 5: Global: Smart Highway Market Forecast: Breakup by Region (in Million US$), 2024-2032
Table 6: Global: Smart Highway Market: Competitive Structure
Table 7: Global: Smart Highway Market: Key Players

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List Of Figures

LIST OF FIGURES

Figure 1: Global: Smart Highway Market: Major Drivers and Challenges
Figure 2: Global: Smart Highway Market: Sales Value (in Billion US$), 2018-2023
Figure 3: Global: Smart Highway Market Forecast: Sales Value (in Billion US$), 2024-2032
Figure 4: Global: Smart Highway Market: Breakup by Component (in %), 2023
Figure 5: Global: Smart Highway Market: Breakup by Deployment Model (in %), 2023
Figure 6: Global: Smart Highway Market: Breakup by Technology (in %), 2023
Figure 7: Global: Smart Highway Market: Breakup by Region (in %), 2023
Figure 8: Global: Smart Highway (Hardware) Market: Sales Value (in Million US$), 2018 & 2023
Figure 9: Global: Smart Highway (Hardware) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 10: Global: Smart Highway (Software) Market: Sales Value (in Million US$), 2018 & 2023
Figure 11: Global: Smart Highway (Software) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 12: Global: Smart Highway (Service) Market: Sales Value (in Million US$), 2018 & 2023
Figure 13: Global: Smart Highway (Service) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 14: Global: Smart Highway (On-premises) Market: Sales Value (in Million US$), 2018 & 2023
Figure 15: Global: Smart Highway (On-premises) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 16: Global: Smart Highway (Cloud-based) Market: Sales Value (in Million US$), 2018 & 2023
Figure 17: Global: Smart Highway (Cloud-based) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 18: Global: Smart Highway (Intelligent Transportation Management System) Market: Sales Value (in Million US$), 2018 & 2023
Figure 19: Global: Smart Highway (Intelligent Transportation Management System) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 20: Global: Smart Highway (Intelligent Traffic Management System) Market: Sales Value (in Million US$), 2018 & 2023
Figure 21: Global: Smart Highway (Intelligent Traffic Management System) Market

+44 20 8123 2220
info@marketpublishers.com

Forecast: Sales Value (in Million US$), 2024-2032
Figure 22: Global: Smart Highway (Communication System) Market: Sales Value (in Million US$), 2018 & 2023
Figure 23: Global: Smart Highway (Communication System) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 24: Global: Smart Highway (Monitoring System) Market: Sales Value (in Million US$), 2018 & 2023
Figure 25: Global: Smart Highway (Monitoring System) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 26: Global: Smart Highway (Other Technologies) Market: Sales Value (in Million US$), 2018 & 2023
Figure 27: Global: Smart Highway (Other Technologies) Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 28: North America: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 29: North America: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 30: United States: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 31: United States: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 32: Canada: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 33: Canada: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 34: Asia-Pacific: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 35: Asia-Pacific: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 36: China: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 37: China: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 38: Japan: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 39: Japan: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 40: India: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 41: India: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 42: South Korea: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023

+44 20 8123 2220
info@marketpublishers.com

Figure 43: South Korea: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 44: Australia: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 45: Australia: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 46: Indonesia: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 47: Indonesia: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 48: Others: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 49: Others: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 50: Europe: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 51: Europe: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 52: Germany: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 53: Germany: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 54: France: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 55: France: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 56: United Kingdom: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 57: United Kingdom: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 58: Italy: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 59: Italy: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 60: Spain: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 61: Spain: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 62: Russia: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 63: Russia: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 64: Others: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 65: Others: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 66: Latin America: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 67: Latin America: Smart Highway Market Forecast: Sales Value (in Million US$),

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2024-2032
Figure 68: Brazil: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 69: Brazil: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 70: Mexico: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 71: Mexico: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 72: Others: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 73: Others: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 74: Middle East and Africa: Smart Highway Market: Sales Value (in Million US$), 2018 & 2023
Figure 75: Middle East and Africa: Smart Highway Market: Breakup by Country (in %), 2023
Figure 76: Middle East and Africa: Smart Highway Market Forecast: Sales Value (in Million US$), 2024-2032
Figure 77: Global: Smart Highway Industry: SWOT Analysis
Figure 78: Global: Smart Highway Industry: Value Chain Analysis
Figure 79: Global: Smart Highway Industry: Porter's Five Forces Analysis

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