

Global Smart Roads Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Smart Roads market size was valued at US\$ 13840 million in 2024 and is forecast to a readjusted size of USD 22330 million by 2031 with a CAGR of 7.2% during review period.

Smart roads refer 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 road 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 roads 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. 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 roads 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 roads promote eco-friendly transportation alternatives.

Global key players of Smart Roads include Mundys (Yunex Traffic), Swarco Holding, Huawei, Sumitomo Electric, Cisco, etc. The top five players hold a share over 32%. China is the largest market, and has a share about 34%, followed by Europe and Americas with share 31% and 18%, separately. In terms of product type, Hardware is the largest segment, occupied for a share of 63%. In terms of application, Urban Traffic

has a share about 52 percent.

This report is a detailed and comprehensive analysis for global Smart Roads market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Smart Roads market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Smart Roads market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Smart Roads market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Smart Roads market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Smart Roads

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Smart Roads market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mundys (Yunex Traffic), Swarco Holding, Huawei, Sumitomo Electric, Cisco, Kapsch, Nippon Signal, Hisense Transtech, Intel, Almoviva, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Smart Roads market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Software

Hardware

Market segment by Application

Urban Traffic

Highway

Bridges and Tunnels

Others

Market segment by players, this report covers

Mundys (Yunex Traffic)

Swarco Holding

Huawei

Sumitomo Electric

Cisco

Kapsch

Nippon Signal

Hisense Transtech

Intel

Almaviva

Q-FREE

IBM

Lianyungang JARI Electronics

MOVYON

Indra Sistemas

LG CNS

Vaisala

Econolite

Alcatel Lucent

Valerann

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-

Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Smart Roads product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Smart Roads, with revenue, gross margin, and global market share of Smart Roads from 2020 to 2025.

Chapter 3, the Smart Roads competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Smart Roads market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Smart Roads.

Chapter 13, to describe Smart Roads research findings and conclusion.

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