

Global Smart Highway Construction Market Size Study, by Solution (Monitoring and Detection Systems, Display, Software, Others), by Deployment (On-Premises, Cloud-Based), by Technology (Smart Transportation System, Smart Traffic Management, Communication & Networking, Others), and Regional Forecasts 2022-2032

https://marketpublishers.com/r/G1BE3448A4E9EN.html

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G1BE3448A4E9EN

Abstracts

The Global Smart Highway Construction Market is valued approximately at USD 34.85 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 20.0% over the forecast period 2024-2032. The smart highway construction market is driven by the increasing government investments worldwide aimed at enhancing real-time information systems for road conditions and traffic management. Smart highways, particularly in hazardous and hilly regions, offer significant safety benefits by providing warnings about oncoming traffic and potential landslides. Additionally, these highways generate energy, which can be used for road lighting and powering electric vehicles. As the global population and the number of vehicles on the road continue to rise, the scarcity of land for new road construction necessitates the development of smart, safe, pollution-free, and decongested transportation solutions. The proliferation of smart city initiatives further propels the growth of the smart highway construction market, driving industries to innovate and develop new technologies.

Smart transportation management systems leverage digital sensors to collect and store data, providing real-time predictions and alerts for issues like landslides, severe weather, and traffic congestion. Companies are continuously innovating in this space; for instance, in September 2021, Alcatel-Lucent Enterprise launched new versions of its OmniSwitch 6900 line, designed for enterprise data centers and core networks as part



of its Digital Age Networking (DAN) strategy.

The smart highway construction market is segmented based on solution, deployment, technology, and region. The solution segment includes monitoring and detection systems, display, software, and others. Deployment is categorized into on-premise and cloud-based. Technology segments cover smart transportation systems, smart traffic management, communication & networking, and others. The market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key regions considered in the Smart Highway Construction Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America holds a dominant position in the smart highway construction market, primarily due to its advanced infrastructure, significant technological advancements, and substantial investments in smart city projects. The United States, in particular, has been at the forefront of implementing smart highway solutions, driven by the need to enhance traffic management, reduce congestion, and improve road safety. The region's commitment to innovation, supported by strong government initiatives and collaborations between public and private sectors, has fostered the development and deployment of intelligent transportation systems. Additionally, North America's focus on integrating renewable energy sources and sustainable practices in highway construction further propels its leadership in this market. On the other hand, Asia Pacific is projected to register fastest growth during the forecast period 2024-2032. The market in the region is being driven by factors such as rising government funding, rising adoption of smart transportation technologies and rising urbanization and infrastructure development.

Major market players included in this report are:

Transstroy India Ltd

Alcatel-Lucent Enterprise

Huawei Technologies Co. Ltd.

VINCI Construction

IBM Corporation

Heijmans N.V.

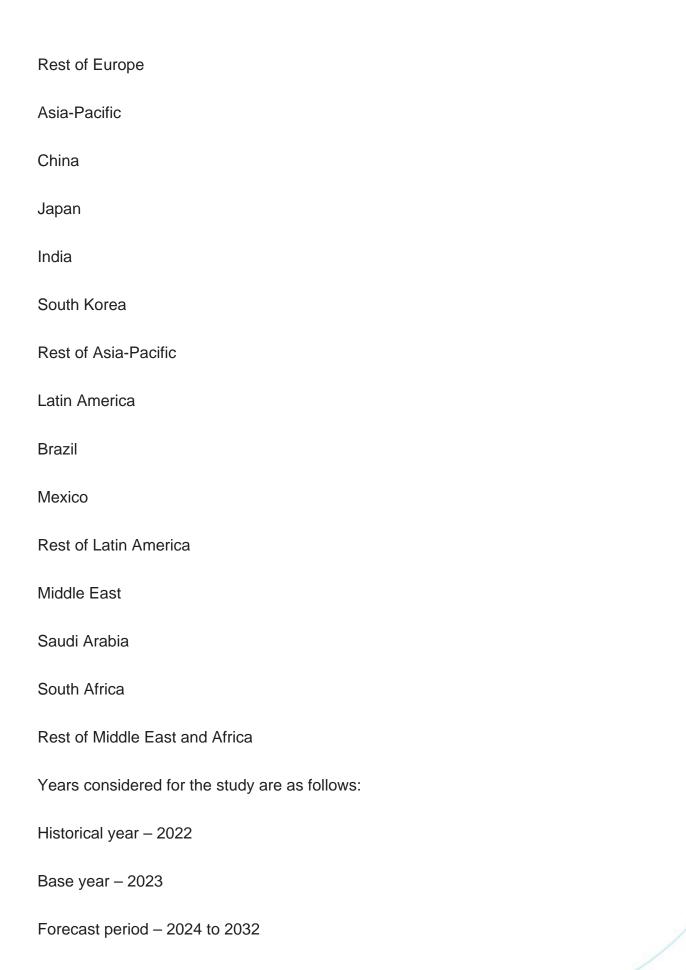






Smart Transportation System
Smart Traffic Management
Communication & Networking
Others
By Source of Energy:
Solar
Wind
Vibration
By Source of Funding:
Government Funding
Other Funding
By Region:
North America
U.S.
Canada
Europe
UK
Germany
France
Italy







Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.



Contents

CHAPTER 1. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET EXECUTIVE SUMMARY

- 1.1. Global Smart Highway Construction Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Solution
 - 1.3.2. By Deployment
 - 1.3.3. By Technology
 - 1.3.4. By Source of Energy
 - 1.3.5. By Source of Funding
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates



CHAPTER 3. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Government Investments in Smart Highways
 - 3.1.2. Rising Urbanization and Smart City Initiatives
 - 3.1.3. Technological Advancements in Smart Road Systems
- 3.2. Market Challenges
 - 3.2.1. High Initial Costs and Maintenance
 - 3.2.2. Privacy and Security Concerns
- 3.3. Market Opportunities
 - 3.3.1. Expansion in Emerging Economies
 - 3.3.2. Integration with Renewable Energy Sources

CHAPTER 4. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET SIZE &



FORECASTS BY SOLUTION 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Smart Highway Construction Market: Solution Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 5.2.1. Monitoring and Detection Systems
 - 5.2.2. Display
 - 5.2.3. Software
 - 5.2.4. Others

CHAPTER 6. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET SIZE & FORECASTS BY DEPLOYMENT 2022-2032

- 6.1. Segment Dashboard
- 6.2. Global Smart Highway Construction Market: Deployment Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 6.2.1. On-Premise
 - 6.2.2. Cloud-Based

CHAPTER 7. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

- 7.1. Segment Dashboard
- 7.2. Global Smart Highway Construction Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 7.2.1. Smart Transportation System
 - 7.2.2. Smart Traffic Management
 - 7.2.3. Communication & Networking
 - 7.2.4. Others

CHAPTER 8. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET SIZE & FORECASTS BY SOURCE OF ENERGY 2022-2032

- 8.1. Segment Dashboard
- 8.2. Global Smart Highway Construction Market: Source of Energy Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 8.2.1. Solar
 - 8.2.2. Wind
 - 8.2.3. Vibration



CHAPTER 9. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET SIZE & FORECASTS BY SOURCE OF FUNDING 2022-2032

- 9.1. Segment Dashboard
- 9.2. Global Smart Highway Construction Market: Source of Funding Revenue Trend Analysis, 2022 & 2032 (USD Billion)
 - 9.2.1. Government Funding
 - 9.2.2. Other Funding

CHAPTER 10. GLOBAL SMART HIGHWAY CONSTRUCTION MARKET SIZE & FORECASTS BY REGION 2022-2032

- 10.1. North America Smart Highway Construction Market
- 10.1.1. U.S. Smart Highway Construction Market
 - 10.1.1.1. Solution breakdown size & forecasts, 2022-2032
 - 10.1.1.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.1.1.3. Technology breakdown size & forecasts, 2022-2032
- 10.1.2. Canada Smart Highway Construction Market
- 10.1.2.1. Solution breakdown size & forecasts, 2022-2032
- 10.1.2.2. Deployment breakdown size & forecasts, 2022-2032
- 10.1.2.3. Technology breakdown size & forecasts, 2022-2032
- 10.1.3. Mexico Smart Highway Construction Market
 - 10.1.3.1. Solution breakdown size & forecasts, 2022-2032
 - 10.1.3.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.1.3.3. Technology breakdown size & forecasts, 2022-2032
- 10.2. Europe Smart Highway Construction Market
 - 10.2.1. U.K. Smart Highway Construction Market
 - 10.2.1.1. Solution breakdown size & forecasts, 2022-2032
 - 10.2.1.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.2.1.3. Technology breakdown size & forecasts, 2022-2032
 - 10.2.2. Germany Smart Highway Construction Market
 - 10.2.2.1. Solution breakdown size & forecasts, 2022-2032
 - 10.2.2.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.2.2.3. Technology breakdown size & forecasts, 2022-2032
 - 10.2.3. France Smart Highway Construction Market
 - 10.2.3.1. Solution breakdown size & forecasts, 2022-2032
 - 10.2.3.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.2.3.3. Technology breakdown size & forecasts, 2022-2032



- 10.2.4. Italy Smart Highway Construction Market
 - 10.2.4.1. Solution breakdown size & forecasts, 2022-2032
 - 10.2.4.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.2.4.3. Technology breakdown size & forecasts, 2022-2032
- 10.2.5. Rest of Europe Smart Highway Construction Market
 - 10.2.5.1. Solution breakdown size & forecasts, 2022-2032
 - 10.2.5.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.2.5.3. Technology breakdown size & forecasts, 2022-2032
- 10.3. Asia-Pacific Smart Highway Construction Market
 - 10.3.1. China Smart Highway Construction Market
 - 10.3.1.1. Solution breakdown size & forecasts, 2022-2032
 - 10.3.1.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.3.1.3. Technology breakdown size & forecasts, 2022-2032
 - 10.3.2. Japan Smart Highway Construction Market
 - 10.3.2.1. Solution breakdown size & forecasts, 2022-2032
 - 10.3.2.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.3.2.3. Technology breakdown size & forecasts, 2022-2032
 - 10.3.3. India Smart Highway Construction Market
 - 10.3.3.1. Solution breakdown size & forecasts, 2022-2032
 - 10.3.3.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.3.3.3. Technology breakdown size & forecasts, 2022-2032
 - 10.3.4. South Korea Smart Highway Construction Market
 - 10.3.4.1. Solution breakdown size & forecasts, 2022-2032
 - 10.3.4.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.3.4.3. Technology breakdown size & forecasts, 2022-2032
 - 10.3.5. Rest of Asia Pacific Smart Highway Construction Market
 - 10.3.5.1. Solution breakdown size & forecasts, 2022-2032
 - 10.3.5.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.3.5.3. Technology breakdown size & forecasts, 2022-2032
- 10.4. Latin America Smart Highway Construction Market
 - 10.4.1. Brazil Smart Highway Construction Market
 - 10.4.1.1. Solution breakdown size & forecasts, 2022-2032
 - 10.4.1.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.4.1.3. Technology breakdown size & forecasts, 2022-2032
 - 10.4.2. Mexico Smart Highway Construction Market
 - 10.4.2.1. Solution breakdown size & forecasts, 2022-2032
 - 10.4.2.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.4.2.3. Technology breakdown size & forecasts, 2022-2032
 - 10.4.3. Rest of Latin America Smart Highway Construction Market



- 10.4.3.1. Solution breakdown size & forecasts, 2022-2032
- 10.4.3.2. Deployment breakdown size & forecasts, 2022-2032
- 10.4.3.3. Technology breakdown size & forecasts, 2022-2032
- 10.5. Middle East & Africa Smart Highway Construction Market
 - 10.5.1. Saudi Arabia Smart Highway Construction Market
 - 10.5.1.1. Solution breakdown size & forecasts, 2022-2032
 - 10.5.1.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.5.1.3. Technology breakdown size & forecasts, 2022-2032
 - 10.5.2. South Africa Smart Highway Construction Market
 - 10.5.2.1. Solution breakdown size & forecasts, 2022-2032
 - 10.5.2.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.5.2.3. Technology breakdown size & forecasts, 2022-2032
 - 10.5.3. Rest of Middle East & Africa Smart Highway Construction Market
 - 10.5.3.1. Solution breakdown size & forecasts, 2022-2032
 - 10.5.3.2. Deployment breakdown size & forecasts, 2022-2032
 - 10.5.3.3. Technology breakdown size & forecasts, 2022-2032

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Key Company SWOT Analysis
 - 11.1.1. Company
 - 11.1.2 Company
 - 11.1.3 Company
- 11.2. Top Market Strategies
- 11.3. Company Profiles
 - 11.3.1. Transstroy India Ltd
 - 11.3.1.1. Key Information
 - 11.3.1.2. Overview
 - 11.3.1.3. Financial (Subject to Data Availability)
 - 11.3.1.4. Product Summary
 - 11.3.1.5. Market Strategies
 - 11.3.2. Alcatel-Lucent Enterprise
 - 11.3.3. Huawei Technologies Co. Ltd.
 - 11.3.4. VINCI Construction
 - 11.3.5. IBM Corporation
 - 11.3.6. Heijmans N.V.
 - 11.3.7. ABB Ltd.
 - 11.3.8. Cisco Systems, Inc.
 - 11.3.9. Colas Group



- 11.3.10. Nippon Koei Co. Ltd.
- 11.3.11 Siemens AG
- 11.3.12. Schneider Electric
- 11.3.13. Kapsch TrafficCom
- 11.3.14. Indra Sistemas
- 11.3.15. General Electric

CHAPTER 12. RESEARCH PROCESS

- 12.1. Research Process
 - 12.1.1. Data Mining
 - 12.1.2. Analysis
 - 12.1.3. Market Estimation
 - 12.1.4. Validation
 - 12.1.5. Publishing
- 12.2. Research Attributes



List Of Tables

LIST OF TABLES

- TABLE 1. Global Smart Highway Construction market, report scope
- TABLE 2. Global Smart Highway Construction market estimates & forecasts by Region 2022-2032 (USD Billion)
- TABLE 3. Global Smart Highway Construction market estimates & forecasts by Solution 2022-2032 (USD Billion)
- TABLE 4. Global Smart Highway Construction market estimates & forecasts by Deployment 2022-2032 (USD Billion)
- TABLE 5. Global Smart Highway Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 6. Global Smart Highway Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 7. Global Smart Highway Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 8. Global Smart Highway Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. Global Smart Highway Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. Global Smart Highway Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. Global Smart Highway Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. Global Smart Highway Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. Global Smart Highway Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 14. Global Smart Highway Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 15. U.S. Smart Highway Construction market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 16. U.S. Smart Highway Construction market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 17. U.S. Smart Highway Construction market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 18. Canada Smart Highway Construction market estimates & forecasts, 2022-2032 (USD Billion)



TABLE 19. Canada Smart Highway Construction market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada Smart Highway Construction market estimates & forecasts by segment 2022-2032 (USD Billion)

.

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.



List Of Figures

LIST OF FIGURES

- FIG 1. Global Smart Highway Construction market, research methodology
- FIG 2. Global Smart Highway Construction market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Smart Highway Construction market, key trends 2023
- FIG 5. Global Smart Highway Construction market, growth prospects 2022-2032
- FIG 6. Global Smart Highway Construction market, porters 5 force model
- FIG 7. Global Smart Highway Construction market, PESTEL analysis
- FIG 8. Global Smart Highway Construction market, value chain analysis
- FIG 9. Global Smart Highway Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Smart Highway Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Smart Highway Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Smart Highway Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Smart Highway Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Smart Highway Construction market, regional snapshot 2022 & 2032
- FIG 15. North America Smart Highway Construction market 2022 & 2032 (USD Billion)
- FIG 16. Europe Smart Highway Construction market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Smart Highway Construction market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Smart Highway Construction market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Smart Highway Construction market 2022 & 2032 (USD Billion)
- FIG 20. Global Smart Highway Construction market, company market share analysis (2023)

.

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.



I would like to order

Product name: Global Smart Highway Construction Market Size Study, by Solution (Monitoring and

Detection Systems, Display, Software, Others), by Deployment (On-Premises, Cloud-Based), by Technology (Smart Transportation System, Smart Traffic Management, Communication & Networking, Others), and Regional Forecasts 2022-2032

Product link: https://marketpublishers.com/r/G1BE3448A4E9EN.html

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G1BE3448A4E9EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html



To place an order via fax simply print this form, fill in the information below and fax the completed form to $+44\ 20\ 7900\ 3970$