

Smart Transportation Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Application (Traffic Management, Road Safety and Security, Parking Management, Public Transport, Automotive Telematics, Freight, Other), By Product Type (Advanced Traveler Information Systems (ATIS), Advanced Transportation Management Systems (ATMS), Advanced Transportation Pricing Systems (ATPS), Advanced Public Transportation Systems (APTS), Cooperative Vehicle Systems), By Region & Competition, 2019-2029F

<https://marketpublishers.com/r/S09B35923E37EN.html>

Date: July 2024

Pages: 185

Price: US\$ 4,900.00 (Single User License)

ID: S09B35923E37EN

Abstracts

Global Smart Transportation Market was valued at USD 29.24 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 6.03% through 2029. Increasing traffic volume, government initiatives to reduce greenhouse gas emissions, rising city projects, and the growth of megacities, urbanization, and population are key factors driving market growth. As urbanization increases, cities face growing complexities, particularly in transportation. Addressing these complexities is a primary challenge for the smart transportation market. The trend of rising IoT and connected devices is expected to continue with smart city projects during the forecast period. The growing use of connected products like smart homes, meters, transportation, and lighting, all utilizing IoT communication, is anticipated to drive market expansion.

Smart mobility, which includes transportation, is a major objective of innovative city

development, aiming to create efficient, flexible, and integrated transportation networks. Smart mobility is a significant development driver in modern urban centers, improving daily life for residents and visitors. By 2040, cities are expected to accommodate 65% of the world's population. Urban mobility management prioritizes healthy transportation modes such as walking and cycling, minimizes carbon emissions, and optimizes traffic flow analysis for communities.

Key Market Drivers

Technological Advancements

Technological advancements are at the forefront of driving the global smart transportation market's growth and innovation. In an increasingly connected and data-driven world, the transportation sector is experiencing a remarkable transformation. These technological breakthroughs are not only enhancing the efficiency and safety of transportation systems but also contributing to sustainability and improved user experiences. One of the key technological drivers is the Internet of Things (IoT). IoT devices and sensors are being integrated into vehicles, infrastructure, and transportation networks, enabling real-time data collection and analysis. This connectivity allows for the monitoring of traffic conditions, vehicle performance, and infrastructure maintenance needs. It also facilitates communication between vehicles, infrastructure, and traffic management systems, thereby enabling adaptive responses to changing conditions and enhancing overall safety.

Artificial intelligence (AI) plays a pivotal role in optimizing transportation systems. Machine learning algorithms can process vast amounts of data to predict traffic patterns, optimize routes, and even develop autonomous driving capabilities. AI is also employed in intelligent traffic management systems that adjust signal timings in real time, reduce congestion, and improve traffic flow. The rollout of 5G networks is another game-changer in the smart transportation sector. 5G offers high-speed, low-latency connectivity, enabling faster and more reliable communication between vehicles and infrastructure. This connectivity is essential for features like vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication, which enhance safety and traffic management.

Advanced driver-assistance systems (ADAS) and autonomous vehicles are transforming the way people and goods are transported. These technologies use sensors, cameras, radar, and AI to improve vehicle safety, reduce accidents, and pave the way for fully autonomous transportation. While autonomous vehicles are still in the

early stages of deployment, they represent a significant technological advancement that will shape the future of transportation. Big data and analytics are crucial for making sense of the massive amount of information generated by smart transportation systems. Data analytics tools enable transportation authorities and companies to gain insights into traffic patterns, predict maintenance needs, and identify opportunities for optimization.

Cybersecurity solutions are also integral to the smart transportation market. With the increasing connectivity of transportation systems, protecting against cyber threats and ensuring the security of passenger data and critical infrastructure is paramount. In conclusion, technological advancements are driving the global smart transportation market by enabling greater connectivity, data analysis, and automation. These advancements are revolutionizing transportation by making it more efficient, safer, and environmentally friendly, ultimately improving the quality of life for people in urban and rural areas. As Application continues to advance, the smart transportation sector is poised for even more significant growth and transformation in the years to come.

Mobility as a Service (MaaS)

Mobility as a Service (MaaS) is poised to be a transformative force driving the global smart transportation market. MaaS represents a paradigm shift in the way people access and utilize transportation services. It offers a seamless, user-centric approach by integrating various modes of transportation into a single, unified platform, making it easier for individuals to plan, book, and pay for their journeys. One of the primary drivers of MaaS adoption is the increasing urbanization of the global population. As more people migrate to cities, urban congestion and transportation challenges have become a pressing issue. MaaS addresses these challenges by providing an alternative to traditional car ownership, reducing traffic congestion, and lowering carbon emissions.

Government initiatives and regulations are also pushing the growth of MaaS. Many governments and municipalities are investing in MaaS projects to improve the efficiency of public transportation, reduce the number of private vehicles on the road, and promote sustainable urban mobility. These initiatives often involve the development of digital platforms and mobile apps that enable easy access to public transit, shared mobility services, bike-sharing, and more.

Technological advancements are a key enabler of MaaS. Smartphones and mobile apps have become ubiquitous, allowing users to access real-time transportation information, plan routes, and make payments seamlessly. Additionally, the Internet of

Things (IoT) and data analytics play a vital role in optimizing transportation networks, ensuring timely arrivals, and enhancing the user experience. Cost-efficiency is another driving factor for MaaS. By offering a pay-as-you-go model, MaaS can reduce the total cost of transportation for users compared to owning a private vehicle. This affordability, along with the convenience of accessing multiple transportation options through a single app, makes MaaS an attractive choice for urban residents and commuters.

As consumer demand for convenient, sustainable, and tech-savvy transportation solutions continues to grow, MaaS is positioned to revolutionize the way people move within cities. Its potential to enhance transportation efficiency, reduce environmental impact, and improve urban quality of life makes it a pivotal driver in the global smart transportation market. MaaS represents the future of urban mobility, and its impact will likely continue to expand as more cities and regions embrace this innovative approach to transportation.

Key Market Challenges

High Implementation Costs

High implementation costs pose a significant challenge to the global smart transportation market, potentially hindering the widespread adoption and deployment of smart transportation solutions. These costs can act as a barrier for governments, transportation authorities, and organizations looking to invest in the modernization and transformation of transportation infrastructure and systems. Several key factors contribute to the challenges associated with high implementation costs, Infrastructure Upgrades: Implementing smart transportation systems often requires substantial investments in infrastructure upgrades. This can include the installation of advanced traffic management systems, intelligent signaling, and the development of robust communication networks. These costs can be a substantial burden for governments and transportation agencies, particularly in economically constrained regions.

Technological Investments: Developing and deploying smart transportation solutions involves investments in cutting-edge technology. This includes the acquisition of hardware, software, sensors, and other equipment necessary to enable real-time data collection, analysis, and communication. These technological investments can be expensive and may require organizations to allocate substantial budgets. Integration Complexity: Integrating various components and systems within a smart transportation ecosystem can be complex and costly. Ensuring that different technologies and data sources work seamlessly together requires significant engineering efforts and

coordination.

Regulatory Compliance: Adhering to regulations and standards, such as cybersecurity and data privacy requirements, often necessitates additional investments in compliance measures and security technologies. These can add to the overall implementation costs. **Ongoing Maintenance and Support:** Smart transportation systems require ongoing maintenance, updates, and support to ensure their smooth operation. These post-implementation costs, including regular software updates and hardware maintenance, can be substantial over the long term. **Return on Investment Uncertainty:** Demonstrating the return on investment (ROI) for smart transportation projects can be challenging. Calculating the economic and social benefits of improved traffic flow, reduced emissions, and enhanced safety, for example, may not be straightforward, which can make it difficult to secure the necessary funding.

To address the challenge of high implementation costs, stakeholders in the smart transportation market must consider several strategies. Public-private partnerships, for instance, can help share the financial burden between government bodies and private-sector companies. Additionally, innovative financing models, such as value-capture mechanisms, can allocate the costs more equitably by leveraging the increased property values and economic benefits that result from improved transportation systems. Furthermore, cost-effective technology solutions and scalable implementations can help reduce upfront expenditures. Leveraging open standards and modular architecture can make systems more adaptable and cost-efficient. Finally, governments can explore grants, incentives, and subsidies to encourage investments in smart transportation and to offset some of the initial implementation costs. Overcoming the challenge of high implementation costs is crucial to unlocking the full potential of smart transportation systems in terms of improving transportation efficiency, reducing congestion, enhancing safety, and promoting sustainability. Finding innovative funding mechanisms and cost-effective solutions will be essential to drive the continued growth of the global smart transportation market.

Privacy and Data Security

Privacy and data security concerns have the potential to significantly hamper the global smart transportation market. As smart transportation systems become more prevalent and data-driven, there is a growing need to address these challenges to ensure the successful adoption of these technologies while maintaining public trust and safety. **Data Breaches and Unauthorized Access:** The vast amount of data generated by smart transportation systems, including personal information, travel history, and payment

details, makes them attractive targets for cyberattacks. Data breaches and unauthorized access to this information can lead to identity theft, fraud, and other privacy violations, eroding public confidence in these systems.

Intrusive Surveillance: Smart transportation systems often involve extensive surveillance, such as the collection of data from traffic cameras, sensors, and user devices. Concerns over pervasive surveillance and the potential misuse of this data can lead to resistance among the public and privacy advocates. **Tracking and Profiling:** The collection and analysis of user data can result in detailed profiles of individuals' movements, behaviors, and preferences. These profiles can be exploited for advertising or even discriminatory purposes, raising ethical and legal concerns. **Geolocation Privacy:** Real-time tracking of vehicles and passengers via GPS and other location-based technologies can infringe on individuals' privacy and reveal sensitive information, such as home addresses, travel patterns, and daily routines.

Legal and Regulatory Challenges: Privacy regulations and laws, such as the General Data Protection Regulation (GDPR) in Europe, present compliance challenges for organizations involved in smart transportation. Ensuring that these systems meet legal requirements without compromising functionality can be complex. **Public Trust and Adoption:** Concerns about privacy and data security can discourage individuals from using smart transportation services, leading to slower adoption rates. This can limit the potential benefits of these systems in terms of reduced traffic congestion, improved safety, and enhanced transportation efficiency.

Data Ownership and Control: Questions about who owns and controls the data generated by smart transportation systems can lead to disputes between stakeholders, further complicating data security and privacy efforts. To address these challenges and foster the growth of the smart transportation market, stakeholders must prioritize data security and privacy. This involves implementing robust encryption and authentication mechanisms, anonymizing data wherever possible, and ensuring transparent data handling practices. It also requires ongoing engagement with privacy advocates and regulators to establish clear guidelines and promote public awareness of the measures in place to protect individuals' privacy.

Ultimately, the success of smart transportation systems will depend on striking the right balance between data-driven innovation and the protection of individual privacy rights. Achieving this balance is crucial for building public trust, driving widespread adoption, and realizing the full potential of smart transportation in enhancing urban mobility and transportation efficiency.

Cybersecurity Vulnerabilities

Cybersecurity vulnerabilities pose a significant threat to the global smart transportation market, potentially hampering the widespread adoption of smart transportation systems and infrastructure. As transportation systems become increasingly interconnected and reliant on digital technologies, they become more exposed to various cyber threats, which could have detrimental effects on safety, privacy, and overall system integrity.

Data Breaches and Privacy Concerns: The vast amount of data generated and shared within smart transportation systems, including personal information, location data, and payment details, makes these systems attractive targets for cybercriminals. Data breaches can lead to privacy violations, identity theft, and the compromise of sensitive information, eroding public trust in these systems.

Malware and Ransomware Attacks: Malicious software and ransomware attacks can disrupt the operation of transportation systems, causing delays, safety risks, and financial losses. A successful attack on a smart transportation network could lead to the hijacking of vehicles or infrastructure, potentially endangering passengers. **Disruption of Services:** Transportation networks are essential for the functioning of cities and economies. Cyberattacks that disrupt services such as traffic management, public transit, and logistics can have far-reaching consequences, causing economic disruption and negatively impacting the quality of life for residents.

Critical Infrastructure Vulnerabilities: Smart transportation systems often include critical infrastructure, such as traffic control systems and communication networks. A cyberattack on these components could compromise public safety and the functionality of entire regions, leading to dire consequences. **Vehicle Vulnerabilities:** The advent of connected and autonomous vehicles introduces cybersecurity risks. If a hacker gains control of a vehicle's systems, they could manipulate its operation, creating life-threatening situations. **Complex Supply Chains:** Smart transportation systems involve numerous suppliers, from hardware and software providers to infrastructure contractors. This complexity increases the potential for vulnerabilities, as each component can be a potential point of entry for cyberattacks.

Legacy Systems: Many transportation systems incorporate legacy infrastructure that may not have been designed with cybersecurity in mind. Retrofitting these systems with modern security measures can be challenging, leaving vulnerabilities in place. **Insider Threats:** The people responsible for maintaining and operating smart transportation systems can also pose a security risk. Insider threats, whether intentional or

unintentional, can lead to breaches and vulnerabilities.

To mitigate these cybersecurity vulnerabilities and ensure the success of the smart transportation market, a multi-pronged approach is essential. This includes robust cybersecurity protocols, regular security audits, public awareness campaigns, and international cooperation to address cross-border cyber threats. Collaboration between government agencies, transportation authorities, and cybersecurity experts is crucial to safeguarding the future of smart transportation systems. A proactive stance on cybersecurity will help build public trust, encourage innovation, and ensure the long-term viability of smart transportation solutions.

Key Market Trends

Integration of Multimodal Transportation

The integration of multimodal transportation is a driving force in the global smart transportation market, reshaping the way people move within urban and interurban areas. This trend, often encapsulated under the concept of Mobility as a Service (MaaS), represents a fundamental shift from traditional, single-mode transportation to a comprehensive, interconnected system that offers a seamless travel experience. MaaS platforms allow travelers to plan, book, and pay for journeys involving various transportation modes, such as buses, trains, subways, trams, ride-sharing, car-sharing, electric scooters, and even walking or cycling. By aggregating these options into a single, user-friendly interface, MaaS simplifies travel for individuals, making it more efficient, convenient, and cost-effective.

The integration of multimodal transportation is driven by several factors, including urbanization, environmental sustainability, and the need to alleviate traffic congestion. It offers numerous benefits, such as reducing the reliance on private car ownership, curbing emissions, and enhancing the overall efficiency of transportation networks. As smart transportation solutions continue to evolve, the integration of various transportation modes will play a pivotal role in creating smarter, more accessible, and more sustainable urban mobility ecosystems, ultimately shaping the future of transportation in smart cities and beyond. This trend aligns with the broader goals of improving transportation efficiency, enhancing accessibility, and reducing the environmental impact of urban mobility systems.

Autonomous and Connected Vehicles

Autonomous and connected vehicles are poised to be major drivers of the global smart transportation market, revolutionizing the way people and goods move within urban and interurban environments. These cutting-edge technologies are at the forefront of innovation, offering the potential to transform transportation systems, improve road safety, and enhance overall efficiency. Autonomous vehicles, often referred to as self-driving cars, have the potential to reduce accidents and traffic congestion by eliminating human error. As they become more reliable and widespread, they can pave the way for highly efficient transportation systems, with vehicles communicating with each other and infrastructure to optimize traffic flow.

Connected vehicles, on the other hand, leverage vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communication to enhance safety and traffic management. This connectivity enables real-time data exchange, allowing vehicles to react to changing conditions, receive updates on road conditions, and even coordinate with traffic signals.

The integration of autonomous and connected vehicles into smart transportation systems will bring benefits such as reduced traffic accidents, increased traffic flow, and more accessible mobility options for individuals with disabilities and the elderly. Moreover, these technologies align with the broader goals of environmental sustainability and resource optimization by enabling better route planning and reduced fuel consumption. As the development and deployment of autonomous and connected vehicles continue to progress, their role in shaping the future of smart transportation will be pivotal. Governments, industries, and researchers are collaborating to address technical, regulatory, and safety challenges, making way for a transportation landscape that is not only smarter but safer and more efficient.

Segmental Insights

Application Insights

Traffic Management held the largest market share of the Global Smart Transportation market in 2023, driven by several critical factors that underscore its pivotal role in modern urban mobility solutions. As urban populations continue to swell, cities worldwide face escalating traffic congestion challenges, which in turn result in increased travel times, higher fuel consumption, and elevated emissions. Traffic Management systems offer a comprehensive approach to alleviating these issues through the deployment of advanced technologies and data-driven strategies.

The core of Traffic Management systems lies in their ability to integrate real-time data

from various sources, such as GPS, sensors, cameras, and connected vehicles, to monitor and manage traffic flow dynamically. These systems utilize sophisticated algorithms and machine learning techniques to predict traffic patterns, optimize signal timings, and provide real-time information to commuters. This proactive management significantly enhances road efficiency, reduces congestion, and improves overall travel safety.

The proliferation of Internet of Things (IoT) devices and the expansion of smart city initiatives are major catalysts for the growth of the Traffic Management segment. Cities are increasingly adopting smart traffic solutions, including adaptive traffic signal control, intelligent traffic management centers, and automated incident detection systems. These innovations facilitate more efficient traffic flow, minimize delays, and enable quicker responses to traffic incidents.

The rise of connected and autonomous vehicles further amplifies the need for advanced Traffic Management systems. As these vehicles become more prevalent, the demand for sophisticated infrastructure to support vehicle-to-everything (V2X) communication increases, ensuring seamless integration and coordination on the roads. This technological evolution not only improves traffic efficiency but also enhances safety by reducing human errors and preventing accidents.

Environmental concerns also play a significant role in driving the adoption of smart Traffic Management solutions. By optimizing traffic flow and reducing idling times, these systems contribute to lower greenhouse gas emissions and fuel consumption, aligning with global sustainability goals. The Traffic Management segment is poised to dominate the Smart Transportation market due to its crucial role in addressing urban congestion, leveraging advanced technologies, and supporting the transition towards connected and autonomous vehicles. The combined benefits of improved efficiency, safety, and environmental sustainability ensure that Traffic Management remains a focal point in the evolution of smart transportation systems.

Regional Insights

Asia Pacific dominated the market in 2023, driven by several key factors that highlight the region's rapid urbanization, technological advancements, and substantial investments in smart infrastructure. One of the primary drivers of this dominance is the significant urban population growth in countries such as China, India, and Japan. These nations are experiencing a surge in urbanization, leading to increased traffic congestion, pollution, and demand for efficient transportation solutions. The adoption of smart

transportation technologies, including intelligent traffic management systems, connected vehicles, and advanced public transit solutions, is essential to manage these challenges effectively.

China, in particular, is at the forefront of this transformation. The Chinese government has been heavily investing in smart city initiatives and advanced transportation infrastructure. The implementation of smart traffic management systems, electric vehicle (EV) infrastructure, and high-speed rail networks are pivotal components of China's strategy to modernize its transportation ecosystem. The widespread deployment of IoT devices and the integration of big data analytics in traffic management further enhance the efficiency and reliability of the transportation system.

Similarly, India is making substantial strides in the smart transportation arena. The Indian government's Smart Cities Mission aims to develop 100 smart cities, with a significant focus on improving urban mobility. Initiatives such as the introduction of intelligent traffic management systems, smart parking solutions, and the expansion of metro and bus rapid transit (BRT) systems are crucial in addressing the country's urban transportation challenges. Additionally, the growing penetration of smartphones and the internet facilitates the use of app-based transportation services, enhancing commuter convenience and efficiency.

Japan, known for its technological prowess, is also a key player in the smart transportation market. The country is leveraging its expertise in automation and robotics to develop advanced transportation solutions, including autonomous vehicles and smart rail systems. Japan's emphasis on safety and precision in transportation aligns with the broader goals of smart transportation, making it a leader in the adoption of these technologies. The region's economic growth and increasing disposable incomes also contribute to the rising demand for efficient and reliable transportation systems. As more individuals can afford personal vehicles and utilize app-based transportation services, the need for robust traffic management and efficient public transit systems becomes even more critical.

The Asia Pacific region is home to several leading technology companies and startups that are innovating in the smart transportation space. These companies are developing cutting-edge solutions in areas such as AI-powered traffic analytics, smart infrastructure, and mobility-as-a-service (MaaS) platforms, driving the market forward. Asia Pacific region is set to dominate the Smart Transportation market during the forecast period due to its rapid urbanization, significant government investments, technological advancements, and strong economic growth. The concerted efforts of

governments, private sector players, and technological innovators are transforming the region's transportation landscape, positioning it as a global leader in smart transportation solutions..

Key Market Players

Cisco Systems Inc.

SAP SE

IBM Corporation

AVEVA Group PLC

Siemens AG

Oracle Corporation

Advantech Co., Ltd

Huawei Technologies Co. Ltd

Report Scope:

In this report, the Global Smart Transportation Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Smart Transportation Market, By Application:

Traffic Management

Road Safety and Security

Parking Management

Public Transport

Automotive Telematics

Freight

Other

- Smart Transportation Market, By Product Type:

Advanced Traveler Information Systems (ATIS)

Advanced Transportation Management Systems (ATMS)

Advanced Transportation Pricing Systems (ATPS)

Advanced Public Transportation Systems (APTS)

Cooperative Vehicle Systems

- Smart Transportation Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Smart Transportation Market.

Available Customizations:

Global Smart Transportation Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMERS

5. GLOBAL SMART TRANSPORTATION MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Application (Traffic Management, Road Safety and Security, Parking Management, Public Transport, Automotive Telematics, Freight, Other)
 - 5.2.2. By Product Type (Advanced Traveler Information Systems (ATIS), Advanced Transportation Management Systems (ATMS), Advanced Transportation Pricing Systems (ATPS), Advanced Public Transportation Systems (APTS), Cooperative Vehicle Systems)
 - 5.2.3. By Region
- 5.3. By Company (2023)
- 5.4. Market Map

6. NORTH AMERICA SMART TRANSPORTATION MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Application

6.2.2. By Product Type

6.2.3. By Country

6.3. North America: Country Analysis

6.3.1. United States Smart Transportation Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Application

6.3.1.2.2. By Product Type

6.3.2. Canada Smart Transportation Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Application

6.3.2.2.2. By Product Type

6.3.3. Mexico Smart Transportation Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Application

6.3.3.2.2. By Product Type

7. ASIA-PACIFIC SMART TRANSPORTATION MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Application

7.2.2. By Product Type

7.2.3. By Country

7.3. Asia-Pacific: Country Analysis

7.3.1. China Smart Transportation Market Outlook

7.3.1.1. Market Size & Forecast

- 7.3.1.1.1. By Value
- 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Application
 - 7.3.1.2.2. By Product Type
- 7.3.2. India Smart Transportation Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Application
 - 7.3.2.2.2. By Product Type
- 7.3.3. Japan Smart Transportation Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Application
 - 7.3.3.2.2. By Product Type
- 7.3.4. South Korea Smart Transportation Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Application
 - 7.3.4.2.2. By Product Type
- 7.3.5. Indonesia Smart Transportation Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Application
 - 7.3.5.2.2. By Product Type

8. EUROPE SMART TRANSPORTATION MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Application
 - 8.2.2. By Product Type
 - 8.2.3. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Smart Transportation Market Outlook

- 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
- 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Application
 - 8.3.1.2.2. By Product Type
- 8.3.2. United Kingdom Smart Transportation Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Application
 - 8.3.2.2.2. By Product Type
- 8.3.3. France Smart Transportation Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Application
 - 8.3.3.2.2. By Product Type
- 8.3.4. Russia Smart Transportation Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Application
 - 8.3.4.2.2. By Product Type
- 8.3.5. Spain Smart Transportation Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Application
 - 8.3.5.2.2. By Product Type

9. SOUTH AMERICA SMART TRANSPORTATION MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Application
 - 9.2.2. By Product Type
 - 9.2.3. By Country
- 9.3. South America: Country Analysis

- 9.3.1. Brazil Smart Transportation Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Application
 - 9.3.1.2.2. By Product Type
- 9.3.2. Argentina Smart Transportation Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Application
 - 9.3.2.2.2. By Product Type

10. MIDDLE EAST & AFRICA SMART TRANSPORTATION MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Application
 - 10.2.2. By Product Type
 - 10.2.3. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Smart Transportation Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Application
 - 10.3.1.2.2. By Product Type
 - 10.3.2. South Africa Smart Transportation Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Application
 - 10.3.2.2.2. By Product Type
 - 10.3.3. UAE Smart Transportation Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Application

- 10.3.3.2.2. By Product Type
- 10.3.4. Israel Smart Transportation Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Application
 - 10.3.4.2.2. By Product Type
- 10.3.5. Egypt Smart Transportation Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Application
 - 10.3.5.2.2. By Product Type

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenge

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

- 13.1. Cisco Systems Inc.
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel
 - 13.1.5. Key Product/Services
- 13.2. SAP SE
 - 13.2.1. Business Overview
 - 13.2.2. Key Revenue and Financials
 - 13.2.3. Recent Developments
 - 13.2.4. Key Personnel
 - 13.2.5. Key Product/Services
- 13.3. IBM Corporation
 - 13.3.1. Business Overview
 - 13.3.2. Key Revenue and Financials
 - 13.3.3. Recent Developments

- 13.3.4. Key Personnel
- 13.3.5. Key Product/Services
- 13.4. AVEVA Group PLC
 - 13.4.1. Business Overview
 - 13.4.2. Key Revenue and Financials
 - 13.4.3. Recent Developments
 - 13.4.4. Key Personnel
 - 13.4.5. Key Product/Services
- 13.5. Siemens AG
 - 13.5.1. Business Overview
 - 13.5.2. Key Revenue and Financials
 - 13.5.3. Recent Developments
 - 13.5.4. Key Personnel
 - 13.5.5. Key Product/Services
- 13.6. Oracle Corporation
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel
 - 13.6.5. Key Product/Services
- 13.7. Advantech Co., Ltd
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel
 - 13.7.5. Key Product/Services
- 13.8. Huawei Technologies Co. Ltd
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials
 - 13.8.3. Recent Developments
 - 13.8.4. Key Personnel
 - 13.8.5. Key Product/Services

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