

# **Smart Mobility Automation Market Forecasts to 2034 – Global Analysis By Solution (Autonomous Vehicles, Fleet Management Platforms, Traffic Management Systems, Smart Parking Solutions and Mobility-as-a-Service Platforms), Type, Vehicle Type, Autonomy Level, Service, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Smart Mobility Automation Market is accounted for \$22.4 billion in 2026 and is expected to reach \$128.6 billion by 2034 growing at a CAGR of 24.4% during the forecast period. Smart mobility automation refers to autonomous vehicle systems, fleet management platforms, traffic management systems, smart parking solutions, and mobility-as-a-service platforms enabled through LiDAR and radar sensing, vehicle-to-everything communication, AI navigation algorithms, high-definition mapping, and 5G connectivity that transform transportation infrastructure toward self-organizing, data-driven mobility ecosystems reducing congestion, emissions, accident rates, and transportation cost while improving accessibility and throughput across urban and commercial vehicle transportation networks.

### **Market Dynamics:**

#### **Driver:**

Urban Congestion and Logistics Efficiency Imperative

Accelerating urban population density, creating transportation congestion, economic

losses and last-mile logistics inefficiency is driving municipal and commercial mobility operator investment in smart mobility automation platforms that dynamically optimize traffic flow, enable efficient autonomous freight delivery, and create integrated multimodal mobility access through MaaS platform coordination. Documented urban congestion economic cost exceeding hundreds of billions annually across major metropolitan areas creates compelling smart mobility investment justification at both government infrastructure and private commercial operator levels.

**Restraint:****Autonomous Vehicle Regulatory Certification Complexity**

Complex and fragmented autonomous vehicle regulatory certification frameworks across national and sub-national jurisdictions requiring extensive safety validation testing, operational domain restriction compliance, and insurance liability framework establishment create commercial deployment timeline uncertainty and regulatory compliance investment obligations that constrain autonomous vehicle deployment pace well below technology capability readiness in markets where regulatory frameworks have not kept pace with technology development.

**Opportunity:****Autonomous Freight and Last-Mile Delivery Scale**

Commercial autonomous vehicle deployment for freight transportation, logistics hub-to-hub transfer, and last-mile delivery represents the most commercially advanced autonomous vehicle application category where operational domain restriction to defined routes and controlled environments reduces regulatory complexity, enabling earlier commercial deployment than passenger AV applications and generating substantial transportation efficiency and cost reduction value for logistics operators.

**Threat:****High-Profile Autonomous Vehicle Incident Liability**

High-visibility autonomous vehicle accident incidents generating media coverage that triggers public trust erosion and regulatory response creating additional operational restriction or suspension requirements that set commercial AV deployment program timelines back substantially, compounding investor uncertainty about autonomous

vehicle program financial return realization and creating AV technology company capital access challenges during extended regulatory recovery periods following major safety incidents.

### **Covid-19 Impact:**

COVID-19 reduced public transit ridership creating momentum for individual mobility alternative exploration that positioned autonomous personal mobility as a post-pandemic transportation preference alignment. Post-pandemic smart city infrastructure investment and urban logistics automation urgency from e-commerce delivery demand elevation continue sustaining strong smart mobility automation market investment momentum globally.

The mobility-as-a-service platforms segment is expected to be the largest during the forecast period

The mobility-as-a-service platforms segment is expected to account for the largest market share during the forecast period, due to the largest commercial software and service revenue opportunity from integrated multimodal mobility platform operation serving millions of urban mobility consumers across ride-hailing, micro-mobility, transit, and shared mobility service access that collectively generate the highest total revenue within the smart mobility automation commercial landscape.

The LiDAR & radar segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the LiDAR & radar segment is predicted to witness the highest growth rate, driven by rapid LiDAR cost reduction from solid-state MEMS-based sensor manufacturing enabling mass market autonomous vehicle sensor suite deployment at commercially viable vehicle integration cost, combined with automotive OEM LiDAR standardization across production autonomous vehicle models creating large-volume sensor procurement programs that accelerate LiDAR and radar supplier market expansion.

### **Region with largest share:**

During the forecast period, the North America region is expected to hold the largest market share, due to the United States hosting leading autonomous vehicle technology companies including Waymo, Cruise, Tesla, Aurora, and Mobileye generating

substantial North American technology development and early commercial deployment revenue, progressive state-level AV regulatory framework development, and strong venture capital and corporate investment in autonomous transportation technology programs.

### **Region with highest CAGR:**

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, due to China implementing the world's most aggressive autonomous vehicle regulatory approval and commercial deployment program with Baidu and domestic AV companies achieving commercial robotaxi operations at scale, Japan and South Korea deploying autonomous vehicle programs with strong government support, and rapidly expanding smart city infrastructure investment creating smart mobility automation commercial development environments.

### **Key players in the market**

Some of the key players in Smart Mobility Automation Market include Tesla Inc., Alphabet Inc., General Motors Company, Ford Motor Company, Toyota Motor Corporation, Volkswagen AG, Bayerische Motoren Werke AG, Uber Technologies Inc., Baidu Inc., Mobileye Global Inc. (Intel), Aurora Innovation Inc., Cruise LLC (GM), NVIDIA Corporation, Qualcomm Incorporated, Robert Bosch GmbH, and Aptiv PLC.

### **Key Developments:**

In April 2026, Waymo (Alphabet Inc.) expanded its commercial robotaxi service to three additional US metropolitan markets achieving cumulative 50 million driverless mile milestone with zero at-fault accidents confirming safety performance parity with human drivers in operational design domains.

In March 2026, Mobileye Global Inc. (Intel) launched its SuperVision autonomous driving system in European market production vehicles enabling Level 3 highway autonomous operation with regulatory type approval, marking the first commercial Level 3 AV system deployment in European production models.

In December 2025, Baidu Inc. secured regulatory approval for fully driverless commercial robotaxi operation in five additional Chinese cities expanding its Apollo Go commercial autonomous taxi service to over 20 Chinese metropolitan markets with zero safety drivers required.

#### Solutions Covered:

- Autonomous Vehicles
- Fleet Management Platforms
- Traffic Management Systems
- Smart Parking Solutions
- Mobility-as-a-Service Platforms

#### Types Covered:

- LiDAR & Radar
- V2X Communication
- AI Navigation
- HD Mapping
- 5G Connectivity

#### Vehicle Types Covered:

- Passenger Vehicles
- Commercial Vehicles
- Public Transport
- Micro-Mobility

#### Autonomy Levels Covered:

Level 2

Level 3

Level 4

Level 5x

Services Covered:

Ride Hailing

Car Sharing

Microtransit

Logistics Automation

Applications Covered:

Urban Mobility

Highway Automation

First/Last Mile Connectivity

Freight & Logistics

End Users Covered:

OEMs

Mobility Service Providers

City Governments

Logistics Companies

Consumers

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

## Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

## South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

## Rest of the World (RoW)

## Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

## Africa

South Africa

Egypt

Morocco

Rest of Africa

### **What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

### **Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

### **2 RESEARCH FRAMEWORK**

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
  - 2.4.1 Data Collection (Primary and Secondary)
  - 2.4.2 Data Modeling and Estimation Techniques
  - 2.4.3 Data Validation and Triangulation
  - 2.4.4 Analytical and Forecasting Approach

### **3 MARKET DYNAMICS AND TREND ANALYSIS**

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

### **4 COMPETITIVE AND STRATEGIC ASSESSMENT**

- 4.1 Porter's Five Forces Analysis
  - 4.1.1 Supplier Bargaining Power
  - 4.1.2 Buyer Bargaining Power
  - 4.1.3 Threat of Substitutes
  - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

## **5 GLOBAL SMART MOBILITY AUTOMATION MARKET, BY SOLUTION**

- 5.1 Autonomous Vehicles
  - 5.1.1 Passenger Cars
  - 5.1.2 Shuttles & Buses
- 5.2 Fleet Management Platforms
- 5.3 Traffic Management Systems
- 5.4 Smart Parking Solutions
- 5.5 Mobility-as-a-Service Platforms

## **6 GLOBAL SMART MOBILITY AUTOMATION MARKET, BY TYPE**

- 6.1 LiDAR & Radar
- 6.2 V2X Communication
- 6.3 AI Navigation
- 6.4 HD Mapping
- 6.5 5G Connectivity

## **7 GLOBAL SMART MOBILITY AUTOMATION MARKET, BY VEHICLE TYPE**

- 7.1 Passenger Vehicles
- 7.2 Commercial Vehicles
- 7.3 Public Transport
- 7.4 Micro-Mobility

## **8 GLOBAL SMART MOBILITY AUTOMATION MARKET, BY AUTONOMY LEVEL**

- 8.1 Level
- 8.2 Level
- 8.3 Level
- 8.4 Level

## **9 GLOBAL SMART MOBILITY AUTOMATION MARKET, BY SERVICE**

- 9.1 Ride Hailing

- 9.2 Car Sharing
- 9.3 Microtransit
- 9.4 Logistics Automation

## **10 GLOBAL SMART MOBILITY AUTOMATION MARKET, BY APPLICATION**

- 10.1 Urban Mobility
- 10.2 Highway Automation
- 10.3 First/Last Mile Connectivity
- 10.4 Freight & Logistics

## **11 GLOBAL SMART MOBILITY AUTOMATION MARKET, BY END USER**

- 11.1 OEMs
- 11.2 Mobility Service Providers
- 11.3 City Governments
- 11.4 Logistics Companies
- 11.5 Consumers

## **12 GLOBAL SMART MOBILITY AUTOMATION MARKET, BY GEOGRAPHY**

- 12.1 North America
  - 12.1.1 United States
  - 12.1.2 Canada
  - 12.1.3 Mexico
- 12.2 Europe
  - 12.2.1 United Kingdom
  - 12.2.2 Germany
  - 12.2.3 France
  - 12.2.4 Italy
  - 12.2.5 Spain
  - 12.2.6 Netherlands
  - 12.2.7 Belgium
  - 12.2.8 Sweden
  - 12.2.9 Switzerland
  - 12.2.10 Poland
  - 12.2.11 Rest of Europe
- 12.3 Asia Pacific
  - 12.3.1 China

- 12.3.2 Japan
- 12.3.3 India
- 12.3.4 South Korea
- 12.3.5 Australia
- 12.3.6 Indonesia
- 12.3.7 Thailand
- 12.3.8 Malaysia
- 12.3.9 Singapore
- 12.3.10 Vietnam
- 12.3.11 Rest of Asia Pacific
- 12.4 South America
  - 12.4.1 Brazil
  - 12.4.2 Argentina
  - 12.4.3 Colombia
  - 12.4.4 Chile
  - 12.4.5 Peru
  - 12.4.6 Rest of South America
- 12.5 Rest of the World (RoW)
  - 12.5.1 Middle East
    - 12.5.1.1 Saudi Arabia
    - 12.5.1.2 United Arab Emirates
    - 12.5.1.3 Qatar
    - 12.5.1.4 Israel
    - 12.5.1.5 Rest of Middle East
  - 12.5.2 Africa
    - 12.5.2.1 South Africa
    - 12.5.2.2 Egypt
    - 12.5.2.3 Morocco
    - 12.5.2.4 Rest of Africa

## **13 STRATEGIC MARKET INTELLIGENCE**

- 13.1 Industry Value Network and Supply Chain Assessment
- 13.2 White-Space and Opportunity Mapping
- 13.3 Product Evolution and Market Life Cycle Analysis
- 13.4 Channel, Distributor, and Go-to-Market Assessment

## **14 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES**

- 14.1 Mergers and Acquisitions
- 14.2 Partnerships, Alliances, and Joint Ventures
- 14.3 New Product Launches and Certifications
- 14.4 Capacity Expansion and Investments
- 14.5 Other Strategic Initiatives

## **15 COMPANY PROFILES**

- 15.1 Tesla, Inc.
- 15.2 Alphabet Inc.
- 15.3 General Motors Company
- 15.4 Ford Motor Company
- 15.5 Toyota Motor Corporation
- 15.6 Volkswagen AG
- 15.7 Bayerische Motoren Werke AG
- 15.8 Uber Technologies, Inc.
- 15.9 Baidu, Inc.
- 15.10 Mobileye Global Inc. (Intel)
- 15.11 Aurora Innovation, Inc.
- 15.12 Cruise LLC (GM)
- 15.13 NVIDIA Corporation
- 15.14 Qualcomm Incorporated
- 15.15 Robert Bosch GmbH
- 15.16 Aptiv PLC

## List Of Tables

### LIST OF TABLES

Table 1 Global Smart Mobility Automation Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Smart Mobility Automation Market Outlook, By Solution (2023-2034) (\$MN)

Table 3 Global Smart Mobility Automation Market Outlook, By Autonomous Vehicles (2023-2034) (\$MN)

Table 4 Global Smart Mobility Automation Market Outlook, By Passenger Cars (2023-2034) (\$MN)

Table 5 Global Smart Mobility Automation Market Outlook, By Shuttles & Buses (2023-2034) (\$MN)

Table 6 Global Smart Mobility Automation Market Outlook, By Fleet Management Platforms (2023-2034) (\$MN)

Table 7 Global Smart Mobility Automation Market Outlook, By Traffic Management Systems (2023-2034) (\$MN)

Table 8 Global Smart Mobility Automation Market Outlook, By Smart Parking Solutions (2023-2034) (\$MN)

Table 9 Global Smart Mobility Automation Market Outlook, By Mobility-as-a-Service Platforms (2023-2034) (\$MN)

Table 10 Global Smart Mobility Automation Market Outlook, By Type (2023-2034) (\$MN)

Table 11 Global Smart Mobility Automation Market Outlook, By LiDAR & Radar (2023-2034) (\$MN)

Table 12 Global Smart Mobility Automation Market Outlook, By V2X Communication (2023-2034) (\$MN)

Table 13 Global Smart Mobility Automation Market Outlook, By AI Navigation (2023-2034) (\$MN)

Table 14 Global Smart Mobility Automation Market Outlook, By HD Mapping (2023-2034) (\$MN)

Table 15 Global Smart Mobility Automation Market Outlook, By 5G Connectivity (2023-2034) (\$MN)

Table 16 Global Smart Mobility Automation Market Outlook, By Vehicle Type (2023-2034) (\$MN)

Table 17 Global Smart Mobility Automation Market Outlook, By Passenger Vehicles (2023-2034) (\$MN)

Table 18 Global Smart Mobility Automation Market Outlook, By Commercial Vehicles

(2023-2034) (\$MN)

Table 19 Global Smart Mobility Automation Market Outlook, By Public Transport  
(2023-2034) (\$MN)

Table 20 Global Smart Mobility Automation Market Outlook, By Micro-Mobility  
(2023-2034) (\$MN)

Table 21 Global Smart Mobility Automation Market Outlook, By Autonomy Level  
(2023-2034) (\$MN)

Table 22 Global Smart Mobility Automation Market Outlook, By Level 2 (2023-2034)  
(\$MN)

Table 23 Global Smart Mobility Automation Market Outlook, By Level 3 (2023-2034)  
(\$MN)

Table 24 Global Smart Mobility Automation Market Outlook, By Level 4 (2023-2034)  
(\$MN)

Table 25 Global Smart Mobility Automation Market Outlook, By Level 5 (2023-2034)  
(\$MN)

Table 26 Global Smart Mobility Automation Market Outlook, By Service (2023-2034)  
(\$MN)

Table 27 Global Smart Mobility Automation Market Outlook, By Ride Hailing  
(2023-2034) (\$MN)

Table 28 Global Smart Mobility Automation Market Outlook, By Car Sharing  
(2023-2034) (\$MN)

Table 29 Global Smart Mobility Automation Market Outlook, By Microtransit (2023-2034)  
(\$MN)

Table 30 Global Smart Mobility Automation Market Outlook, By Logistics Automation  
(2023-2034) (\$MN)

Table 31 Global Smart Mobility Automation Market Outlook, By Application (2023-2034)  
(\$MN)

Table 32 Global Smart Mobility Automation Market Outlook, By Urban Mobility  
(2023-2034) (\$MN)

Table 33 Global Smart Mobility Automation Market Outlook, By Highway Automation  
(2023-2034) (\$MN)

Table 34 Global Smart Mobility Automation Market Outlook, By First/Last Mile  
Connectivity (2023-2034) (\$MN)

Table 35 Global Smart Mobility Automation Market Outlook, By Freight & Logistics  
(2023-2034) (\$MN)

Table 36 Global Smart Mobility Automation Market Outlook, By End User (2023-2034)  
(\$MN)

Table 37 Global Smart Mobility Automation Market Outlook, By OEMs (2023-2034)  
(\$MN)

Table 38 Global Smart Mobility Automation Market Outlook, By Mobility Service Providers (2023-2034) (\$MN)

Table 39 Global Smart Mobility Automation Market Outlook, By City Governments (2023-2034) (\$MN)

Table 40 Global Smart Mobility Automation Market Outlook, By Logistics Companies (2023-2034) (\$MN)

Table 41 Global Smart Mobility Automation Market Outlook, By Consumers (2023-2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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