

Connected And Autonomous Mobility Vehicles Market Outlook 2025-2034: Market Share, and Growth Analysis By Level Of Automation (Level 1, Level 2, Level 3, Level 4, Level 5), By Propulsion Type (Semi-Autonomous, Fully Autonomous), By Vehicle Type, By Application

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Abstracts

The Connected And Autonomous Mobility Vehicles Market is valued at USD 261.1 billion in 2025 and is projected to grow at a CAGR of 40.7% to reach USD 5656.7 billion by 2034. The connected and autonomous mobility vehicles market represents a transformative shift in the transportation industry. With the integration of advanced connectivity solutions and autonomous driving technologies, these vehicles aim to enhance safety, reduce congestion, and improve overall transportation efficiency. Connected vehicles rely on real-time data exchange, allowing them to communicate with other vehicles (V2V), infrastructure (V2I), and pedestrians (V2P), while autonomous vehicles (AVs) use a combination of sensors, cameras, and AI-powered algorithms to navigate without human intervention. Several factors are driving the growth of this market, including advancements in sensor technology, improvements in wireless communication protocols, and increasing investment in smart city projects. Governments and private entities worldwide are committing significant resources to develop the infrastructure and regulatory frameworks needed to support connected and autonomous mobility. As a result, the market is witnessing rapid innovation, from enhanced ADAS (advanced driver-assistance systems) to fully self-driving vehicle prototypes. Regionally, North America and Europe are at the forefront of development due to their well-established automotive industries, high R&D investment, and supportive regulatory environments. Meanwhile, Asia-Pacific is quickly catching up, driven by rapid urbanization, a strong focus on smart city initiatives, and growing

demand for efficient mobility solutions. This global momentum ensures that the connected and autonomous mobility vehicles market will continue to expand as new technologies mature and adoption increases.

Key Insights Connected And Autonomous Mobility Vehicles Market

Increased adoption of Vehicle-to-Everything (V2X) communication for seamless data exchange.

Rising integration of AI and machine learning algorithms for improved decision-making in autonomous vehicles.

Advancements in 5G connectivity enabling faster, more reliable communication between vehicles and infrastructure.

Expansion of autonomous ride-hailing services and shared mobility platforms.

Development of high-definition maps and real-time traffic analytics to support autonomous navigation.

Growing demand for safer, more efficient transportation systems.

Rising urbanization and the need to reduce traffic congestion in megacities.

Increased government funding and incentives for autonomous and connected vehicle projects.

Technological advancements in sensors, cameras, and communication systems.

High costs associated with developing and deploying connected and autonomous vehicle technology.

Regulatory and legal hurdles related to liability, safety standards, and data privacy.

Public skepticism and trust issues around fully autonomous vehicles.

Connected And Autonomous Mobility Vehicles Market Segmentation

By Level Of Automation

Level 1

Level 2

Level 3

Level 4

Level 5

By Propulsion Type

Semi-Autonomous

Fully Autonomous

By Vehicle Type

Passenger Car

Commercial Vehicle

By Application

Civil

Defense

Transportation And Logistics

Construction

Key Companies Analysed

Microsoft Corporation

General Motors (GM)

Mercedes-Benz Group AG

Ford Motor Company

Bayerische Motoren Werke AG (BMW)

SAIC Motor Corp. Ltd.

Tesla Inc.

Nissan Motor Co. Ltd.

Intel Corporation

BYD Co. Ltd.

Groupe Renault

The Volvo Group

Magna International Inc.

Uber Technologies Inc.

ABB Ltd.

Nvidia Corporation

Jaguar Land Rover Automotive PLC

Didi Chuxing Technology Co. Ltd.

Baidu Inc.

Aptiv plc

Porsche Automobil Holding SE

Lyft Inc.

Motional

Aurora Innovation Inc.

SAE International

Nuro Inc.

Argo AI

AutoX Inc.

Swift Navigation

Nauto

Connected And Autonomous Mobility Vehicles Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Connected And Autonomous Mobility Vehicles Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Connected And Autonomous Mobility Vehicles market data and outlook to 2034

United States

Canada

Mexico

Europe — Connected And Autonomous Mobility Vehicles market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Connected And Autonomous Mobility Vehicles market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Connected And Autonomous Mobility Vehicles market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Connected And Autonomous Mobility Vehicles market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Connected And Autonomous Mobility Vehicles value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Connected And Autonomous Mobility Vehicles industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Connected And Autonomous Mobility Vehicles Market Report

Global Connected And Autonomous Mobility Vehicles market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Connected And Autonomous Mobility Vehicles trade, costs, and supply chains

Connected And Autonomous Mobility Vehicles market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Connected And Autonomous Mobility Vehicles market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Connected And Autonomous Mobility Vehicles market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Connected And Autonomous Mobility Vehicles supply chain analysis

Connected And Autonomous Mobility Vehicles trade analysis, Connected And Autonomous Mobility Vehicles market price analysis, and Connected And Autonomous Mobility Vehicles supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Connected And Autonomous Mobility Vehicles market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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