

Automated Guided Vehicle Market based on by Type (Tow Vehicles, Unit Load Carriers, Forklift Trucks, Assembly Line Vehicles, Pallet Trucks), Navigation Technology (Laser Guidance, Magnetic Guidance, Vision Guidance), Industry, Regional Outlook– Global Forecast up to 2030

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Abstracts

Cars that are connected can communicate with other cars, drivers, road infrastructure, and the cloud using the V2X platform. These services produce useful data, such as vehicle performance and road conditions, and help drivers, fleet managers, and car dealers maximise resource utilisation, increase safety, and automate some driving tasks. In order to function, connected cars must gather and exchange information from their environment, connect to the intelligent transportation system, and give transportation authorities access to real-time traffic data for better planning and road management. As a result, there is a growing requirement for basic vehicle connectivity applications like real-time updates, navigation, and in-car infotainments, which has led to a growth in the demand for connected car services.

The adoption of connected automobiles is further aided by the introduction of the Internet of Things (IoT) in the automotive sector, a boom in the need for connectivity solutions, and a desire for a better driving experience. Consequently, the expansion of the automotive V2X market is driven by the rise in V2X-based services offered in connected automobiles. For instance, the Strata V2X networking framework was introduced by the international design and engineering firm Altran in January 2017 at the International Consumer Electronics Show (CES) in Las Vegas. The goals of this V2X networking framework are to improve passenger road safety, energy and fuel management, traffic management, and driver assistance as well as the overall vehicle

experience.

Research Methodology:

After secondary research provided a fundamental understanding of the worldwide Automated Guided Vehicle Market scenario, extensive primary research was carried out. A number of primary interviews were carried out with industry experts from the supply and demand sides, including C- and D-level executives, product managers, and marketing and sales managers of major manufacturers, distributors, and channel partners from tier 1 and tier 2 companies offering Automated Guided Vehicle Market details, as well as personnel from academia, research, and CROs. These interviews were conducted across five major regions: North America, Europe, Asia Pacific, and the Rest of the World (Latin America & the Middle East & Africa). Participants from the supply-side and demand-side participated in about 70% and 30% of the primary interviews, respectively. Through the use of questionnaires, emails, online surveys, in-person interviews, and phone interviews, this main data was gathered. The primary participants share is given below:

Automated Guided Vehicle Market based on Type

Tow Vehicles

Unit Load Carriers

Pallet Trucks

Assembly Line Vehicles

Forklift Vehicles

Others

Automated Guided Vehicle Market based on Navigation Technology

Laser Guidance

Magnetic Guidance

Inductive Guidance

Optical Tape Guidance

Vision Guidance

Others

Automated Guided Vehicle Market based on Industry

Automotive

Chemicals

Aviation

Semiconductor & Electronics

E-commerce

Food & Beverage

Healthcare

Metals & Heavy Machinery

3PL

Others

Automated Guided Vehicle Market based on Geography

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

Software and hardware are included in the component-based V2X market segmentation. In 2021, the hardware segment accounted for approximately 65–67% of the V2X Market revenue, holding a dominant position. A flexible and affordable system, cellular vehicle-to-everything can offer secure short- and long-range communication over a large region. It provides more capacity, enhanced safety features, and a decreased likelihood of service outages. These elements will support this segment's expansion.

Based on communication type, the V2X market is segmented into V2C, V2D, V2G, V2P, V2V, and V2I. Having dominated the market in 2021, the V2V category is expected to develop at the fastest rate between 2022 and 2030. As it is Vehicle-to-infrastructure (V2I) communication is the wireless data transfer between moving items and the road's supporting equipment. This includes the cameras, RFID readers, lane signs, illumination, metres, and lamps that are part of the infrastructure. Drivers can receive real-time notifications from V2I sensors—which interact with infrastructure components—about the condition of the roads, traffic, accidents, construction zones, and parking availability. The main forces behind the global deployment of vehicle-to-infrastructure (V2I) communication are the enhanced mobility of automobiles and pedestrians as well as the reduction of emissions as a result of improved traffic management. Globalisation, increasing urbanisation, and creative city initiatives are all fueling the expansion of the vehicle-to-infrastructure (V2I) communication market. Thus, increasing V2X applications have a favourable effect on market expansion.

By vehicle type, the V2X Market data has been divided into commercial and passenger categories. During the 2022–2030 projection period, the commercial category is anticipated to increase at a higher rate than it did in 2021, when it dominated the market. Automobiles having at least four wheels that are utilised for passenger transportation and no more than eight seats overall—not counting the driver's seat—are

classified as passenger automobiles. Autonomous vehicle-to-vehicle and vehicle-to-infrastructure (V2X) communications reduce fuel and energy use, enhance passenger experience, and increase traffic flow. The rise of the automotive V2X industry is being propelled by the global increase in linked passenger car production. Furthermore, as there are more sophisticated electric and hybrid cars on the road, V2X technology innovation is being stimulated, which is growing the automotive V2X industry.

The report offers market insights for North America, Europe, Asia-Pacific, and the rest of the world by region. The Europe V2X market, valued at USD 0.59 billion in 2021, is anticipated to develop at a substantial compound annual growth rate (CAGR) over the course of the study. Due to the growing need for enhanced connections in surveillance and security features by the general public throughout the area, Europe is anticipated to see notable development rates for the market over the projected timeframe.

This report illustrates the most vital attributes of the Automated Guided Vehicle Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Automated Guided Vehicle Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Automated Guided Vehicle Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Automated Guided Vehicle Market.

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