Self-Driving Truck Market Set to Hit $41.2 Billion by 2035: Key Trends Driving Growth | Robotics, Inc., PlusAI, Inc.,

The self-driving truck market is driven by development of intelligent transport system, growth of connected infrastructure and improved safety coupled .

Self-Driving Truck Industry Trend

OREGON, DE, UNITED STATES, March 12, 2025 /EINPresswire.com/ -- According to the report, the global self-driving truck market is expected to be valued at $13.11 billion in 2025, and is projected to reach $41.21 billion by 2035, registering a CAGR of 12.1% from 2025 to 2035.

A self-driving truck, or autonomous truck, is one that supports the driver while also making decisions and navigating itself out of uncertain situations. Self-driving truck refers to autonomous driving technologies in trucks that allow them to run without human intervention by combining sensors, software, and advanced control systems. Technology is utilized in logistics and transportation to address issues such as driver shortages and to eliminate human errors that might result in road casualties. Self-driving trucks are also utilized to transport goods and commodities to a storage facility from an excavation site in a mine or an unloading zone at a port.

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Autonomous vehicles have several advantages over traditional vehicles from improved safety to reduction in fuel and traffic congestion and emissions. An autonomous truck will be installed with a wider range of sensors such as LiDAR, RADAR, camera, GPS among others. These sensors are short range (providing details of moving objects near the vehicle) as well as long range (providing details of high-speed oncoming vehicles) to help a vehicle sense any object or obstacle in its way, thus eliminating chances of accidents.

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At present, the autonomous vehicle market players interested in testing driverless technology need to apply for exemptions to the National Highway and Traffic Safety Administration's (NHTSA) federal motor vehicle safety standards, and the agency only grants 2,500 per year. The Self-Drive Act is projected to increase that cap to 25,000 per year initially, and expand it to 100,000 annually in three years' time. Such developments are expected to create ample opportunities for the growth of the market across the globe.

Autonomous vehicles can also help reduce traffic congestion. On the basis of a study by University of Illinois, it was proved that one autonomous vehicle stuck in traffic congestion with 20 other human driven vehicles can ease the congestion by controlling the pace of the vehicle. Fuel consumption also reduces with use of autonomous vehicles as fuel use increases when the vehicle slows down. Thus, reduction in traffic congestion and improved fuel efficiency due to self-driving trucks are expected to boost the growth of the self-driving truck market across the globe.

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Moreover, the factors such as development of intelligent transport system, growth of connected infrastructure and improved safety coupled with reduction in traffic congestion. However, rise security and privacy concerns and software failures associated with automotive sensors hamper the growth of the market. On the contrary, decongestion of traffic and supportive government regulation to foster growth are the major factors that are expected to provide lucrative opportunities for the market growth during the forecast period.

North America held the highest market share in 2025 but LAMEA is expected to lead the market by 2035

Based on region, North America held the highest market share in terms of revenue in 2025, accounting for more than one-third of the global self-driving truck market revenue, due to the presence of major self-driving companies in the region. However, LAMEA region held the major CAGR of 14.2% in 2035, due to the government support for the self-driving truck technology which attracts many firms who are developing and testing autonomous truck technology. For instance, in May 2023 Einride an electric self-driving truck technology provider has signed a Memorandum of Understanding (MoU) with the UAE government to deploy its ecosystem across 550 kilometers in Abu Dhabi, Dubai, and Sharjah. The expansion of the private players such as Einride in the Middle-East shows the demand of autonomous technology in the region, which helps to grow the self-driving truck market.

KEY FINDINGS OF THE STUDY

By component, the software segment is projected to dominate the global market in terms of growth rate.
By application, the logistics and transportation segment is projected to dominate the global self-driving truck market in terms of growth rate.
By level of automation, the level 5 segment is projected to dominate the global market in terms of growth rate.
By propulsion type, the electric transmission segment is projected to dominate the global market in terms of growth rate.

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