

# Market Report Catalog

## Automotive

December 2017



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## ■ Automotive ■

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## **GLOBAL AUTOMOTIVE LEAD ACID MARKET FORECAST 2017-2025**

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The Global Automotive lead-acid battery market is forecasted to grow further at an estimated CAGR of 4.29% between the years 2017 - 2025. The market is driven by a surge in automotive sales and the growing demand for battery-powered vehicles. The fact that these batteries can be recycled and are fairly cost effective are also aiding the market expansion.

### **MARKET INSIGHTS**

The global automotive lead-acid battery market is segmented according to customer segments, products, types, and end-users. The customer segments include OEM batteries and aftermarket batteries. The products available in this market are classified into micro-hybrid batteries and SLI batteries. The lead-acid batteries by type are further classified into enhanced flooded batteries, flooded batteries, and VRLA batteries. The end-users for this market include LCVs and HCVs, passenger car, two wheelers and three wheelers.

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## **Research Report on Electric Vehicle Industry in China, 2017-2021**

Published by China Research and Intelligence

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In terms of the development trend of current technologies and vehicle driving principles, electric vehicles can be divided into three categories: battery electric vehicles, hybrid electric vehicles and fuel cell electric vehicles. Since fuel cell electric vehicles are not widely put in commercial use, electric vehicles usually refer to battery electric vehicles and hybrid vehicles.

In terms of application fields, electric vehicles can be categorized into electric passenger vehicles and electric commercial vehicles. Electric passenger vehicles include battery electric vehicles for passengers and hybrid vehicles for passengers. Electric commercial vehicles include battery electric buses and electric special vehicles. Both of these two types of commercial vehicles are driven by electricity, which generates low noise with high driving stability.

According to current electricity price and product oil price in China, battery electric vehicles spend less on operating costs than traditional oil-fueled vehicles do, with high economic efficiency. However, battery electric vehicles are weak in endurance mileage, competitive battery price, supportive infrastructure of charging stations, etc.

## **Electric Vehicles 2018-2038: Forecasts, Analysis and Opportunities**

Published by IDTechEx Ltd.

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*For 20 years we have surveyed the whole electric vehicle scene land, water and air, hybrid and pure electric. The next 20 years will make all that seem just a taster. Industries will collapse but certain countries, companies and users will prosper. The unique IDTechEx overview report, "Electric Vehicles 2017-2037: Forecasts, Analysis and Opportunities" explains all this including the barely-noticed new end game of energy independent electric vehicles EIV. Nowadays, there are EIVs announced all the time and they will become more important than the much-discussed autonomy of navigation that many of them will employ.*

*We show how fuel cell and non-plug-in vehicles will be sidelined as we approach peak internal combustion engine, peak car and even peak plug-in pure electric vehicle in the next two decades. We show that if, as is likely, the new 48V mild hybrids forecasted acquire EV modes of operation within ten years, the total EV market will approach one trillion dollars. We spell out how EVs leveraging navigational autonomy and/or energy independence will hugely assist the young, the old and emerging nations in particular. EIVs lead us to totally different key enabling technologies and different winners and losers. Learn how EIV hardware will be a bigger business than autonomy hardware and identify gaps in the market.*

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## **Global Light Commercial Vehicle Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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*Light commercial vehicle (LCV) is a commercial carrier of people and goods, which approximately comes under 8-ton category. Commercial vehicle manufacturers focus on launching newer models that are compliant with the latest emissions regulations to maintain good business profits. Rising air pollution levels are causing governing bodies to upgrade vehicular emissions regulations for commercial vehicles on intervals less than a year. Vehicle manufacturers are constricting the production of newer commercial vehicle models to allow the produced stock of commercial vehicles to be sold off before the implementation of upgraded emission norms. LCVs include light pickup trucks used for distribution and transportation of goods, especially in stop-and-go traffic, and for light construction and municipal applications.*

*Technavio's analysts forecast the global light commercial vehicle market to grow at a CAGR of 0.96% during the period 2017-2021.*

**Global Motorcycle Chains Market 2017-2021**

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Power from the engine of a motorcycle to the rear driving wheel through sprockets is transferred through the chain, and it is critical in delivering a safe riding experience. The chains differ in size depending on the power to be transmitted. The most popular motorcycle chain size is 12.7mm×8mm×7.85mm (Pitch X Diameter X Width); rollers and length of the chain for such models of motorcycles are either 120 links or 118 links.

Technavio's analysts forecast the global motorcycle chains market to grow at a CAGR of 5.62% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global motorcycle chains market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

The market is divided into the following segments based on geography:

- Americas
- APAC
- EMEA

**IDC FutureScape: Worldwide Connected Vehicle 2018 Predictions**

Published by IDC

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This IDC study provides our top 10 predictions for the 2017 worldwide connected vehicle market, intended to highlight key areas of evolution in the worldwide connected vehicle market. These predictions reflect IDC's vision for the 10 most important trends in this market over the next 36 months as the connected car shifts from its nascent developmental stages toward meaningful penetration by consumers and businesses and on our roadways. Technology buyers should use this FutureScape to inform their purchasing decisions over the next three years. According to Heather Ashton, research manager, IDC Manufacturing Insights, "Automotive OEMs and their ecosystem counterparts face an unprecedented level of disruption in business models, customer expectations, and digital transformation (DX). The coming years will create new opportunities for those companies that make the shift to digital and capitalize on the tremendous potential of the connected vehicle market." "The connected car will have a powerful impact on our highways and roads in the next five years, and cities and states must begin to plan now for their use, in policy and regulatory decisions as well as technology considerations," adds Ruthbea Yesner Clarke, research director, IDC Smart Cities Strategies.



**Global Automotive Fuel Pipes Market 2017-2021**

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The fuel pipes transfer the fuel from the tank to the engine. The main fuel line in a vehicle allows the fuel pump to draw the fuel out of the fuel tank to the carburetor, or the metering section of the injection system. On the other hand, in a vehicle equipped with direct injection technology, the fuel pipes connect the pump outlet fitting with the high-pressure rail to allow the fuel to be distributed to the individual fuel injectors that inject the fuel into the combustion chamber at a high pressure.

Technavio's analysts forecast the global automotive fuel pipes market to grow at a CAGR of 3.63% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive fuel pipes market for 2017-2021. To calculate the market size, the report considers the sales volume of automotive fuel pipes in the OEM market. The replacement/aftermarket volume has not been considered in the report.

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**Global Automotive LIDAR Sensors Market 2017-2021**

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Light detection and ranging (LIDAR) sensing is a technology that measures the distance between the source and the target with the help of the laser light. In the automotive market, the main purpose of LIDAR sensors is to automate the detection of obstacles, which will increase the safety of using navigation system. There are two outputs from the LIDAR sensors, which determine the existence of obstacles. They are cost map and point cloud.

Technavio's analysts forecast the global automotive LIDAR sensors market to grow at a CAGR of 37.38% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive LIDAR sensors market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.



## **Global Electric Vehicle Battery Market 2017-2021**

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An electric vehicle battery is different from other batteries used in automobiles for starting, ignition, and lighting. They use a different chemistry to have a high density and high potential for the propulsion of the vehicle. Electric vehicle batteries are mostly lithium-ion batteries as other batteries, such as lead-acid batteries, consume more space and have less efficiency. The capacity of the batteries would differ based on the type of vehicle. An electric vehicle can be categorized into HEV, PHEVs, and BEVs.

Technavio's analysts forecast the global electric vehicle battery market to grow at a CAGR of 41.95% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global electric vehicle battery market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

The market is divided into the following segments based on geography:

- Americas
- APAC
- EMEA

## **Global Mobile Engine Filtration Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/30

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Engine filtration systems are used in internal combustion engines to provide a clean supply of air, fuel, and oil to ensure the efficient running of the engine. These are usually made of fibrous materials such as paper, cloth, or synthetic materials, which have the ability to contain dust, dirt, moisture, and other particulate matter that can have a negative impact on engine performance.

All mobile combustion engines utilize some sort of filtration device to prevent undesirable substances from entering the engine. A filtration device usually consists of some form of filter housing and a replaceable filter, which contains the filter media.

Technavio's analysts forecast the global mobile engine filtration market to grow at a CAGR of 6.26% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global mobile engine filtration market for 2017-2021. To calculate the market size, the report considers the demand from new and replacement demand from end-users, including passenger and commercial vehicles, heavy machinery and off-road vehicles, aerospace and defense, locomotives, and marine vessels.

## **Global Fuel Cell Commercial Vehicle Market 2017-2021**

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Fuel cell technology is a green technology, which involves a chemical reaction between hydrogen and oxygen to produce electricity and water. This is expected to be the future fuel due to the abundance of hydrogen in the universe. Fuel cells use hydrogen as the primary energy source, which is abundantly available in the universe and produces electricity by a chemical reaction with oxygen in the presence of a catalyst (platinum). The output of this reaction is water.

Technavio's analysts forecast the global fuel cell commercial vehicle market to grow at a CAGR of 24.66% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global fuel cell commercial vehicle market for 2017-2021. To calculate the market size, the report considers the shipments

The market is divided into the following segments based on geography:

- Americas
- APAC
- EMEA

## **Global Automotive Wiring Harness Testing Market 2017-2021**

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An automotive wiring harness is an assembly of electric wires or cables and various other components, such as connectors and clamps, that are used to transfer information and power to the electronic components of a vehicle. It is also known as a wiring loom for vehicles. Electric wires are tied together with the help of different components such as cable ties, electrical tapes, and conduits or a combination of these to form the complete wiring assembly.

Automotive wires are safeguarded from the impact of vibrations by the wiring harness. The harness protects the components from abrasion and moisture. The increasing number of connected components in vehicles has made the design of wiring harness more complicated, because of which companies have developed design software such as computer-aided design (CAD) tools to design automotive wiring harness.

Technavio's analysts forecast the global automotive wiring harness testing market to grow at a CAGR of 16.21% during the period 2017-2021.

## **Global Buses and Coaches Market 2017-2021**

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Buses and coaches play a crucial role in the transportation system for connecting cities through roads. Their demand goes hand in hand with several, mostly region-specific, factors, including demographics, increasing mobility of people, and environmental awareness, as well as public funding. Buses and coaches are cheap and easy to use as compared with other modes of transportation. Their use does not necessarily require the implementation of a specific infrastructure, which makes buses and coaches ideal vehicles for both short- and long-distance services.

Technavio's analysts forecast the global buses and coaches market to grow at a CAGR of 4.97% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global buses and coaches market for 2017-2021. To calculate the market size, the report considers the new shipments/sales of buses and coaches.

## **IDC PlanScape: Smart Intersections for Smart City Intelligent Transportation**

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## **Global Plastics Market for Passenger Cars Industry 2017-2021**

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Plastics refer to materials that are used as raw materials in different industries such as packaging, automobile, aerospace industry, textile, consumer goods, electronics, and others. These plastics can be molded or shaped into a range of solid objects or flexible sheets by altering the amount of plasticizer used. The use of plastics in passenger cars is increasing due to the growing need to reduce the weight of the vehicles. This, in turn, improves the efficiency of the vehicle in terms of fuel consumption and emissions.

Technavio's analysts forecast the global plastics market for passenger cars industry to grow at a CAGR of 9.37% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global plastics market for passenger cars industry for 2017-2021. To calculate the market size, the report considers the retail selling price as the average selling price of the product.

## **Global Automotive Sway Bars Market 2017-2021**

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A sway bar is the simplest form of control and safety for a suspension system. The sway bar also acts as a third spring to control the road undulation, leading to increased comfort in a vehicle. In an event of sharp turning a body roll force is generated, the sway bar is responsible to push down the lifted axle by generating an anti-force on the opposite end to neutralize the effect. The next generation of sway bars comprises active sway bars. The sway bar can broadly be classified into physical sway bars and active sway bars.

Technavio's analysts forecast the global automotive sway bars market to grow at a CAGR of 5.31% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive sway bars market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Global Third-Party Chemical Distribution Market 2017-2021**

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The chemical distribution process involves sales, logistics, and transportation of chemicals. Chemical distributors offer value-added services such as blending, mixing, packaging, formulation, inventory management, and waste removal to customers. These distributors source the products from chemical manufacturers and supply them to vendors. The chemicals are transported to other vendors or directly transported to third-party chemical distributors that supply these chemicals to end-users.

Technavio's analysts forecast the global third-party chemical distribution market to grow at a CAGR of 5.34% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global third-party chemical distribution market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Connected Truck Market by Range (DSRC and Cellular), Service (Fleet Management and Cybersecurity & Updates), Component (Hardware and Software), Communication (V2V, V2I, and V2C), Vehicle (LCV and HCV), and Region - Global Forecast to 2022**

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The global connected truck market for automotive is projected to grow from USD 18.60 billion in 2017 to USD 37.64 billion by 2022, at a CAGR of 15.14%. The key factors driving the growth of the market include the increase in the vehicle safety legislation, industry compliances, and government regulations regarding safety and security of the vehicle. Other growth drivers include the increased demand for driver assistance system, which includes adaptive cruise control (ACC), blind spot warning (BSW), forward collision warning (FCW), lane departure warning (LDW), park assist system (PAS), and emergency brake assist (EBA). On the other hand, the lack of a strong network infrastructure in developing countries may hinder the growth of the connected truck market.

"Increasing number of fleet management services would drive the vehicle-to-cloud (V2C) segment across the globe"

The fleet management service is estimated to account for the largest share of the connected truck market, by service type in 2017. Various digital systems such as GPS tracking, remote diagnostics, fuel management, and driver information system are offered as standard features in trucks by OEMs.

## **Global Self-balancing Motorcycle Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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*A self-balancing motorcycle is one which has the capability to come to a complete stop and stand upright without falling either side. Such self-balancing motorcycle comes with self-balancing wheels which imbibe stability into the motorcycle to stand upright even if the motorcycle is not moving. According to automotive experts, such self-balancing motorcycles are expected to lower the fatalities of the riders involved in on-road accidents and collisions. The self-balancing motorcycle is one such promising development which is expected to take the safety of riders to one level above with its unique standing upright characteristic when not in motion.*

*Technavio's analysts forecast the global self-balancing motorcycle market to grow at a CAGR of 199.1% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global self-balancing motorcycle market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.*

## **Global Cab Services Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/572176](http://www.giiresearch.com/ce/572176)

*A cab or taxi service is a type of vehicle for hire with a driver, used by a single or small group of passengers on either sharing or non-sharing basis. The passenger hires a taxi for a defined route, which is pre-decided by the customer passenger. The taxi cab conveys passengers between locations of their choice. The cab service differs from other modes of public transport, where the pick-up and drop-off service locations are determined by the service provider and not by the passenger.*

*Technavio's analysts forecast the global cab services market to grow at a CAGR of 8.46% during the period 2017-2021 .*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global cab services market for 2017-2021 . To calculate the market size, the report considers the revenue generated by different cab operators from passenger customers that hire various cab services for different routes. These cab services include e-hailing, car rental, radio cabs, and offline unorganized cabs.*

**Hybrid System Market by System (Start-Stop, Regenerative Braking, EV Drive, eBoost), Component (Battery, DC/DC Converter, DC/AC Inverter, eMotor), Battery (Li-Ion, Lead Acid, NiMH), Vehicle (Mild Hybrid, HEV, PHEV, EV) - Global Forecast to 2022**

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Pub. Date 2017/10/25

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[www.giiresearch.com/ce/571422](http://www.giiresearch.com/ce/571422)

The hybrid system market is projected to grow at a CAGR of 10.79% from 2017 to 2022, to reach a market size of USD 40.99 billion by 2022. The increasing fuel prices and stringency in legislation governing emission standards are driving the demand for hybrid and electric vehicles across the globe. Owing to the high cost of battery-operated vehicles, OEMs are focused towards increasing hybridization features in ICE vehicles. Hence, the demand for micro- and mild-hybrid vehicles is increasing. In addition to decrease in harmful emissions, these vehicles improve fuel economy significantly. For instance, micro hybrid with start-stop function reduces fuel consumption by 2-5% compared with ICE vehicle without start-stop function, according to Natural Resource Canada (NRCAN). On the other hand, vehicles with 48V architecture called as "mild hybrids" help in reducing fuel consumption by 8-15%. Full hybrid vehicles working on higher voltages reduce fuel consumption by 20-50%, and plug-in hybrid vehicles provide 40-80% reduction in fuel consumption. The market growth is restrained by the lack of standardization of the hybrid technologies, which needs to be worked upon by OEMs and Tier-1 companies.

**Smart e-Drive Market by Component (Power Electronics, E-Brake Booster, Inverter, Motor, Battery), Application (E-Axle, Wheel Drive), Vehicle Type (BEV, HEV, PHEV, Electric Bus, Truck), Drive (FWD, RWD, AWD), and Region - Global Forecast to 2022**

Published by MarketsandMarkets

Pub. Date 2017/10/24

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[www.giiresearch.com/ce/571023](http://www.giiresearch.com/ce/571023)

The smart e-drive market for automotive is projected to grow at a CAGR of 32.00% from 2017 to 2022, to reach USD 1,468.2 million by 2022. The demand for an increase in vehicle space is projected to fuel the demand for advanced technologies such as e-wheel drive system.

On the other hand, the major factors hindering the growth of the smart e-drive market in vehicles are the high cost of smart e-drive systems/module and lack of charging infrastructure.

"All wheel drive market is estimated to show the fastest growth and is expected to dominate the smart e-drive market, by drive type"

The market for all-wheel drive (AWD) is projected to grow at the highest CAGR during the forecast period from 2017 to 2022. In the near future, the market for all-wheel drive is projected to show the fastest growth as it combines advantages of FWD and RWD. Increasing need for better acceleration, traction, and towing capabilities in vehicles has propelled the growth of SUVs and MUVs, which come with AWD drivetrain globally. Due to the increasing use of electric and hybrid SUVs and MUVs, the market for AWD will dominate the market of smart e-drive by drive type.



## **Global Automotive Test Equipment Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/572169](http://www.giiresearch.com/ce/572169)

Automotive test equipment is required by automakers to ensure the safety of the passenger and compliance of the vehicle to governmental regulations before it is launched in the market. This equipment helps vehicles adhere to norms and undergo mandatory quality checks. The automotive test equipment sector is likely to experience certain challenges in the future in the form of cost pressure and the complexity of the system. Governmental norms and regulatory pressures in developing regions regarding the safety and emissions generated from automobiles are likely to become stringent.

Technavio's analysts forecast the global automotive test equipment market to grow at a CAGR of 6.09% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive test equipment market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Acoustic Materials Market by Type (ABS, Fiberglass, PP, PU, PVC & Textile), Component (Arch Liner, Outer & Inner Dash, Fender & Floor Insulator, Door Trim, Head & Bonnet Liner, Engine Cover, Trunk Trim, Parcel Tray), ICE & EV, Region - Forecast to 2022**

Published by MarketsandMarkets

Pub. Date 2017/10/24

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[www.giiresearch.com/ce/571024](http://www.giiresearch.com/ce/571024)

The acoustic materials market is projected to grow at a CAGR of 6.99% during the forecast period, to reach a market size of USD 2.93 billion by 2022 from USD 2.09 billion in 2017. Increasing focus towards interior cabin comfort, global rise in vehicle production, increasing premium vehicle sales, and continuous upgradations in noise regulations by the regional authorities such as European Union (EU), and the National Highway Traffic Safety Administration (NHTSA) for ICE and electric vehicles are the key drivers for this market. Fluctuating raw material price and the recycling of acoustic materials are few of the challenges for this market.

"Textiles is projected to grow at the highest rate in the acoustic materials market over the period of next five years"

The textiles segment is estimated to be the fastest growing automotive acoustic material segment during the forecast period. Textiles offer advantages such as reduced weight, better sound absorption, and improved aesthetic features compared with conventional materials. According to European Disposables and Nonwovens Association (EDANA), the nonwoven textiles find multiple automobile applications that include interiors (54%), exteriors (19%), filtration (12%) and battery parts (5%). The demand is expected to grow in future owing to its advantages and further drive the textiles market.

**Global Tank Container Shipping Market 2017-2021**

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[www.giiresearch.com/ce/572161](http://www.giiresearch.com/ce/572161)

Tank containers can withstand transportation and handling of liquid products, such as oil and gas, chemicals, and liquid food products. Tank container shipping is generally performed in the sea, but with the growth of intermodal transportation, tank containers are widely used for the sea-road and sea-rail transportation as well. Shipping containers can withstand transportation and handling of goods, such as dry goods, bulk liquids, chemicals, and gases. Around 75%-80% of the global merchandise trade is sea-borne.

Technavio's analysts forecast the global tank container shipping market to grow at a CAGR of 7.35% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global tank container shipping market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

**Global Hybrid Vehicle Electronic Control Unit (ECU) Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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A modern luxury car has over 70 ECUs to manage its electrical systems. These modern automobiles have many ECUs owing to the increasing demand for safety features, such as advanced driver assistance systems (ADASs), in automobiles that can be implemented in a cost-effective manner using ECUs. Hybrid vehicles have a significant adoption rate of ECUs for various applications owing to the presence of electric drivetrain and requirement of efficient power management for greater mile range, leading to growth in the hybrid vehicle ECU market.

Technavio's analysts forecast the global hybrid vehicle electronic control unit (ECU) market to grow at a CAGR of 50.99% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global hybrid vehicle electronic control unit (ECU) market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Global Corrugated Pallets Market 2017-2021**

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[www.giiresearch.com/ce/572158](http://www.giiresearch.com/ce/572158)

Corrugated pallets are manufactured using corrugated materials, such as paper and cardboard. Corrugated paper pallets are lightweight, easy-to-handle, and less expensive compared with other materials, such as wood, plastic, and metal. Therefore, using corrugated pallets saves the shipping, transportation, and warehousing costs. Corrugated pallets, because of their lightweight and printable ability, are also used at retail point-of-purchase as display packaging solutions.

Technavio's analysts forecast the global corrugated pallets market to grow at a CAGR of 4.15% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global corrugated pallets market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

The market is divided into the following segments based on geography:

- Americas
- APAC
- EMEA

**Autonomous Vehicle Market for Luxury Segment by Body Type (Sedan/Hatchback & SUV), End User (Personal Mobility & Car Sharing), Fuel Type (BEV, Hybrid, ICE, & FCEV), Component (Radar, LiDAR, & Biometric Sensors) and Region - Global Forecast to 2030**

Published by MarketsandMarkets

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[www.giiresearch.com/ce/570306](http://www.giiresearch.com/ce/570306)

The global autonomous vehicle market for luxury segment is projected to be 27,906 units in 2025 and is projected to grow to 126,774 units by 2030, at a CAGR of 35.35%. Increasing accident fatalities coupled with rising concern for vehicle safety and security have accentuated the need for the development of autonomous vehicles. Other factors such as an increase in disposable income, the rise in purchasing power, and changing buyer preferences have fueled the market for luxury and premium cars, which is in turn expected to drive the autonomous vehicle market for luxury segment. On the other hand, the lack of infrastructure is the key restraint for the growth of autonomous luxury vehicles. The autonomous vehicle market for luxury segment requires basic infrastructure such as well-organized roads, lane marking, and availability of GPS for effective functioning. The lack of infrastructure in developing countries could make it difficult to achieve a common platform for autonomous luxury vehicles.

"Car Sharing: The fastest growing segment of the autonomous vehicle market for luxury segment, by end user"

Changing consumer attitude about vehicle ownership and increasing penetration of shared mobility are expected to fuel the demand for the autonomous luxury vehicle car sharing market. Car sharing services offer convenience and cost savings for consumers. Also, car sharing services reduce operating costs such as maintenance, tires, and gas.

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**Automotive HUD Market by Technology (Augmented Reality, Conventional), Type (Combiner, Windshield), End-User (Economic, Luxury, Mid-Segment), Fuel Type (ICE, BEV, Hybrid), Vehicle Type (Passenger, Commercial), and Region - Global Forecast to 2025**

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[www.giiresearch.com/ce/321801](http://www.giiresearch.com/ce/321801)

The automotive HUD market is estimated to be USD 759.6 million in 2017 and is projected to grow at a CAGR of 28.54% during the forecast period (2020-2025) to reach a market size of USD 13,022.0 million by 2025. Consumers are increasingly considering advanced automotive safety functions and technologies while making purchasing decisions. Further, government regulations in the developed regions of North America and Europe are increasingly favoring automotive innovations and technologies that support vehicle and road safety.

"Battery Electric Vehicle (BEV) is the fastest growing segment of the automotive HUD market, by fuel type"

The increase in demand for BEV is encouraging OEMs to develop the HUD for electric vehicles. Key German automotive manufacturer Volkswagen AG has estimated to launch more than 2 million electric vehicles with augmented reality head-up display by 2025. Governments across the globe are making conscious efforts to end the production and sales of petrol and diesel vehicles. China is contemplating an end of fossil fuel cars. Paris plans to stop all petrol and diesel vehicles in certain parts of the city by 2030. Norway, the world's largest electric vehicle market, aims to end sales of fossil fuel vehicles by 2025. Policies such as these are estimated to drive the demand for BEV.

**Global IIoT Market in Automotive Industry 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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[www.giiresearch.com/ce/572148](http://www.giiresearch.com/ce/572148)

The global IIoT market in the automotive industry is a key contributing segment of the global IIoT market. From a top-down perspective, Technavio has analyzed the global IIoT market as a parent market to set the context, in which the global IIoT market in the automotive industry will be analyzed. The IIoT characterizes a set-up wherein every object or thing is embedded with a sensor and is efficient in automatically communicating its state with other objects and automated systems inside the environment. Each object represents a node in a virtual network, continuously transmitting a large volume of data about itself and its surroundings.

Technavio's analysts forecast the global IIoT market in automotive industry to grow at a CAGR of 33.48% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global IIoT market in automotive industry for 2017-2021. To calculate the market size, the report considers the revenue generated from the sales of IIoT.

**Global Motorcycle AC Generator Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/19

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A motorcycle AC generator is used to charge the motorcycle's battery by providing a constant voltage at all engine speeds. A battery needs to be charged as it performs an essential task of starting the motorcycle and acts as a buffer. In most of the motorcycles, an AC generator is installed within a unit known as 'regulator-rectifier' within the main frame. An AC generator is mostly used to charge the battery as it turns out to be more efficient, reliable, and durable as compared with a DC generator. Most motorcycles are equipped with a multi-phase AC generator, which has the capability to charge the battery even if the engine is idle. The copper wire winding on the static part of the generator, which is located within the magnetic field, enables the AC generator to produce electrical power. In most cases, the generator comes equipped with a flywheel, which runs on a crankshaft with a couple of magnets attached to it.

Technavio's analysts forecast the global motorcycle AC generator market to grow at a CAGR of 5.63% during the period 2017-2021.

**Global Automotive Position Sensor Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/18

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Automotive electronics, such as microprocessor-based automotive engine control modules, have graced the automotive domain since the 1970s. The use of such electronics helps carmakers to abide by federal emission regulations and at the same time improve vehicle operation. The electronic content of vehicles has gradually risen since that time. The adoption of sensors increased in the late 1990s. One of the most notable automotive sensor technological advances, MEMS technology, was developed well before the 1990s. Position sensors based on MEMS technology were deployed for powertrain and engine control applications.

Technavio's analysts forecast the global automotive position sensor market to grow at a CAGR of 6.79% during the period 2017-2021 .

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive position sensor market for 2017-2021 . To calculate the market size, the report considers the revenue of position sensors fitted in the passenger cars and commercial vehicles. The estimation is based on position sensors used for powertrain applications and other applications.

## **Global High-Performance Electric Motorcycle Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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*Electric motorcycles are becoming an integral part of the global motorcycle market, with rising focus on emission control. The global motorcycle industry has two segments, one segment is of high-performance motorcycles (considered as a premium), and the other segment consists of two-wheelers used for commuting. Both these segments operate under contrasting market dynamics with different customer behavior and value chains.*

*Technavio's analysts forecast the global high-performance electric motorcycle market to grow at a CAGR of 41.80% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global high-performance electric motorcycle market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.*

## **Range Extenders for Electric Vehicles Land, Water & Air 2018-2028**

Published by IDTechEx Ltd.

Pub. Date 2017/10/18

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*Over 11 million range extenders will be made in 2028.*

*We are in the decade of the hybrid electric vehicle despite the fact that most off-road and underwater vehicles are pure electric. That includes most forklifts, golf cars and mobility vehicles for the disabled plus Autonomous Underwater Vehicles (AUVs) and personal submarines. Indeed, most electric aircraft are pure electric as well. The reason is that these are mainly small as are electric two-wheelers, which are also almost all pure electric. Small vehicles rarely need to travel long distances. In addition, these pure electric vehicles are often used where a conventional engine is banned as on lakes and indoors or where it is impracticable as with underwater vehicles. By contrast, half the electric vehicle market value lies in larger road vehicles, notably cars, and here the legal restrictions are weaker or non-existent and range anxiety compels most people to buy hybrids if they go electric at all.*

*Over 11 million range extenders will be made in 2028, these are the additional power source that distinguishes hybrid cars from pure electric. Add to that significant money spent on the same devices in buses, military vehicles, boats and so on and a major new market emerges.*



## **Global Automotive Common Rail Direct Injection (CRDI) System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/17

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Common rail direct injection (CRDI) is a common type of fuel injection technology used in diesel and gasoline engines. Injector pressure is constantly maintained within the fuel injectors. The electronic control unit (ECU) regulates pressure within the injector according to the load being carried by the vehicle and the engine speed. This system allows for independent operations of fuel injectors and compression, thereby saving fuel. CRDI creates a leaner burn and reduces emissions, thereby maintaining compliance to latest vehicular emission regulations - namely, Euro 5 and Euro 6 emission standards in the EU.

Technavio's analysts forecast the global automotive common rail direct injection (CRDI) system market to grow at a CAGR of 6.47% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive common rail direct injection (CRDI) system market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Global Electric Power Assisted Steering Market Analysis & Trends - Industry Forecast to 2025**

Published by Accuray Research

Pub. Date 2017/10/17

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[www.giiresearch.com/ce/373576](http://www.giiresearch.com/ce/373576)

The Global Electric Power Assisted Steering Market is poised to grow strong during the forecast period 2017 to 2025. Some of the prominent trends that the market is witnessing include low penetration of electric power steering (EPS) in commercial vehicles and adoption of fuel-efficient technologies.

Based on system component the market categorized into steering moment sensor, steering hoses, steering wheel, power steering control unit, steering column, steering motor, steering angle sensor and steering gear.

By vehicle type the market is bifurcated into light commercial vehicle, sports vehicles, passenger cars, commercial vehicles, agricultural tractors, heavy motor vehicles (HMV) and special utility vehicles and other vehicle types. Special Utility Vehicles is further segmented into earth moving, military vehicles and cranes.

Depending on type the market is segregated into electric powered steering systems, electric powered hydraulic steering (EPHS) and hydraulic power steering (HPS). Electric Powered Steering Systems is further subdivided into rack drive electric power steering, column drive electric power steering, direct drive electric power steering, dual point pinion electric power steering and pinion drive electric power steering.

## **Global Commercial Vehicles LED Bar Lights Market 2017-2021**

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[www.giiresearch.com/ce/570504](http://www.giiresearch.com/ce/570504)

Automotive LED bar lights are used in the vehicles as a purpose of alerting the other vehicles and pedestrians walking on the roads about their location and position. LED technology is now being used in bar lights as a means to increase the overall safety of the vehicles and other unprotected road users. In commercial vehicles, the adoption of LED light bars makes more sense as the commercial vehicles are usually larger in shape and size, thereby, making them more vulnerable to on-road collisions.

Technavio's analysts forecast the global commercial vehicles led bar lights market to grow at a CAGR of 31.54% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global commercial vehicles led bar lights market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

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## **Global Automotive Wires and Cable Market Analysis & Trends - Industry Forecast to 2025**

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[www.giiresearch.com/ce/571042](http://www.giiresearch.com/ce/571042)

The Global Automotive Wires and Cable Market is poised to grow strong during the forecast period 2017 to 2025. Some of the prominent trends that the market is witnessing include increasing automotive demand to propel market for cables and wire globally, high growth opportunities in emerging economies and recent technological developments in automotive wires and cable materials.

Based on material type the market is categorized into cross-linked polyethylene (XLPE), polyvinyl chloride (PVC), polyphenylene ether (PPE), polypropylene (PP), thermoplastic polyurethane (TPU) and other material types. Further, other material types include neoprene, polyurethane, co-polyester elastomer, ethylene propylene rubber and fluoropolymers.

By end user the market is segmented by power, construction, automotive and telecommunication. By vehicle type the market is segregated by heavy commercial vehicles, light commercial vehicles and passenger vehicles. Furthermore, passenger vehicles are sub segmented into vans, sedan, luxury cars, compact cars, sub-compact cars and mid-size cars.

## **Global Automotive Instrument Cluster Market 2017-2021**

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[www.giiresearch.com/ce/570507](http://www.giiresearch.com/ce/570507)

An instrument cluster is a display, which provides primary data of vehicle's status such as fuel level, speed, revolutions per minute (RPM), and warnings to the driver. It also consists of various displays, indicators, and warnings, such as speedometer, tachometer, odometer, turn side indicator, oil pressure gauge, fuel gauge. It also consists indicators for system malfunctions. Instrument clusters for passenger cars and commercial vehicles can be broadly classified into analog instrument clusters, hybrid instrument clusters, and digital instrument clusters.

Technavio's analysts forecast the global automotive instrument cluster market to grow at a CAGR of 5.85% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive instrument cluster market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Global Intelligent Transport System Market Analysis & Trends - Industry Forecast to 2025**

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Price

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[www.giiresearch.com/ce/571056](http://www.giiresearch.com/ce/571056)

The Global Intelligent Transport System Market is poised to grow strong during the forecast period 2017 to 2025. Some of the prominent trends that the market is witnessing include growing demand for smart vehicles integrated with mobility technology and rising demand for public-private partnerships (PPPS).

Depending on system the market is categorized into advanced transportation pricing systems (ATPS), advanced traveler information system (ATIS), advanced public transportation systems (APTS), advanced transportation management systems (ATMS), automatic number plate recognition systems (ANPR) and cooperative vehicle systems.

By service the market is bifurcated into support and maintenance and business & cloud. Depending on protocol, the market is segregated into long range, traffic management data dictionary (TMDD), IEEE 1512, short range and other protocols. Long Range is further subdivided into Orthogonal Frequency Division Multiplexing (OFDM) and WIMAX (IEEE 802.11). Short Range is further segmented into WPAN (IEEE 802.15) and WAVE (IEEE 802.11).

## **Market Data - Advanced Energy Storage for Automotive Applications - Li-Ion Traction Energy Batteries for Light Duty Passenger and Medium and Heavy Duty Buses and Trucks: Global Market Analysis and Forecasts**

Published by Navigant Research

Pub. Date 2017/10/16

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[www.giiresearch.com/ce/337538](http://www.giiresearch.com/ce/337538)

EV sales continue to rise rapidly around the world. Declining battery costs have positioned these vehicles for dramatic market success in the years to come, and long-range EVs are now competitive in price among economy brands after subsidies. This milestone marks a threshold likely to move EVs from a niche vehicle option to the next vehicle option for many light duty (LD) and some medium/heavy duty (MD/HD) vehicle consumers. Due to the effect of emissions compliance requirements, charging infrastructure considerations, and customer awareness, sales of battery EVs (BEVs), plug-in hybrid EVs (PHEVs), and hybrid EVs (HEVs)-collectively referred to as xEVs-continue to vary in popularity across all regions.

The primary engineering consideration for various xEV technologies is the approach to energy storage. Early hybrid vehicles featured nickel-metal hydride (NiMH) batteries almost exclusively, but now lithium ion (Li-ion) has taken precedence, particularly with BEVs and PHEVs.

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## **Global Automotive Relays Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/16

Price

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USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/570483](http://www.giiresearch.com/ce/570483)

An automotive relay is a switch, which acts as a bridge between two circuits. It is used to enable low amperage circuits to turn on/off a higher amperage circuit, and it is widely used in cars, trucks, buses, coaches. A Relay is also used for switching on/off multiple things at the same time by using a single output. It acts as a binary actuator, i.e., an electrical output device used for controlling an external physical process. It has two stable states - being energized and latched or being de-energized and unlatched.

Technavio's analysts forecast the global automotive relays market to grow at a CAGR of 3.00% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive relays market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

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## **Global Two-Wheeler Connectors Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/16

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USD 3500 PDF by E-mail (Single User License) ~

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[www.giiresearch.com/ce/570482](http://www.giiresearch.com/ce/570482)

A connector is a device which helps in connecting the internal controls of an appliance, as well as helps in the transmission of electrical signals from the power source of the appliance to the electronic equipment. It links various components and systems together with the help of electrical circuits. A connector can be of various shapes, sizes, quality standards, and complexity, as it is designed to perform different functionalities.

Technavio's analysts forecast the global two-wheeler connectors market to grow at a CAGR of 8.38% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global two-wheeler connectors market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

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## **Automotive Adhesive and Sealants Market (By Application: BIW, UTH and Power Train, Paint Shop, Assembly; By Type; By Geography) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015 - 2024**

Published by Variant Market Research LLP

Pub. Date 2017/10/16

Price

USD 3195 Data Pack ~

USD 7695 PDF by E-mail (Global License)

[www.giiresearch.com/ce/573624](http://www.giiresearch.com/ce/573624)

Global Automotive Adhesive and Sealants Market is estimated to reach 2,217 kilo tons by 2024; growing at a CAGR of 6.4% from 2016 to 2024. Adhesives presently utilized in the automotive industry are generally synthetic in nature, with raw materials as acrylics, polyester resins, vinyl acetate monomer, amine based resins, epoxide resins, ethylene, and propylene and others. Nevertheless, major industry contributors are increasingly framing innovative products using renewable feedstock and bio-based. Sealants, which were conservatively acrylic-based or silicone, are also being advanced with innovative technologies and renewable feedstock to foster improved product properties. New technologies as multipurpose sealants and anchoring introduced by Sika AG own waterproof properties designed exactly for automotive applications.

Global automotive adhesive and sealant market growth has been principally driven by the high development in global automotive market over the past years. Adhesives and Sealants are most chosen because of their competence to reduce vibration and noise. Some of the most projecting adhesives and sealants are polyurethanes, acrylic, silicone, polyvinyl etc.

## **Global Automotive Crash Test Barrier Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/16

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USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/570481](http://www.giiresearch.com/ce/570481)

Crash test barriers are the test tools, which replicate the properties of real materials, and they are used in the crash testing process. The crash test barriers are used for reducing the cost of testing, because they are used for crashing, instead of the complete product. Automotive crash test barriers are those which are used for crash testing the vehicles. There are two types of barriers - rigid barriers and deformable barriers - which are used for frontal and side impact testing.

Technavio's analysts forecast the global automotive crash test barrier market to grow at a CAGR of 6.20% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive crash test barrier market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Global ADAS and Autonomous Driving Components Market, Analysis & Forecast 2017-2026: Focus on Radar, Camera, LiDAR, ADAS, Level 2 and Level 4 Automation, and Passenger Car Application**

Published by BIS Research

Pub. Date 2017/10/16

Price

USD 4799 Unprintable PDF by E-mail (Single User License) ~

USD 7299 Printable PDF by E-mail (Enterprise-wide License)

[www.giiresearch.com/ce/352551](http://www.giiresearch.com/ce/352551)

Rising concerns associated with road safety, traffic congestion, and stringent governmental regulations have resulted in an increased demand of ADAS and autonomous driving components. Rising number of road accidents has resulted in increased regulations by federal authorities regarding the safety of both passengers and pedestrians. These guidelines have resulted in the rise in the demand for driver assistance features in vehicles such as adaptive cruise control, parking assistance, lane departure warning, and automated emergency braking, among others. The market in terms of value generated \$2.76 billion in the year 2016, and is expected to grow at a rapid pace over the forecast period of 2017-2026. The research study is a compilation of various segmentations including market breakdown by component type, level of automation, vehicle type and different geographical regions.

This report provides a detailed market analysis and forecast with respect to various component types in the ADAS and autonomous driving components market which are cameras, radars, ultrasonic sensors, LiDARs and ECUs. Additionally, on the basis of automation level, the ADAS and autonomous driving components market is segmented into level 1, level 2, level 3, level 4 and level 5 automation. While highlighting the key driving and restraining forces for this market, the report also provides a detailed study of the different vehicle type, which include passenger cars and commercial vehicles (light commercial vehicles, heavy trucks and heavy buses).



**Global Vehicle-To-Vehicle (V2V) Communication Market, By Connectivity Type (Cellular based technology, DSRC), Deployment Type, Applications, End-use & Geography - Insights, Size, Share, Opportunity Analysis, and Industry Forecast till 2025**

Published by Coherent Market Insights

Pub. Date 2017/10/12

Price

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[www.giiresearch.com/ce/570365](http://www.giiresearch.com/ce/570365)

V2V Communication technology refers to the systems that enable communication of automotive with each other to provide improved awareness of the surrounding environment and information regarding the future actions of the nearby vehicles. This helps in the elimination of accident threats from the blind spots and enhances user safety. Owing to the high number of incidents occurring due to human errors that can be significantly reduced with the utilization of these systems, V2V communication market is expected to witness strong growth prospects during the forecast period.

**Market Dynamics**

Prominent drivers of the V2V communication market include the enhanced safety through avoidance of collisions due to number of unprecedented threats that can be identified by these systems and human errors. However, the industry growth is expected to considerably challenged by the number of differences between the industry participants with respect to the adoption of common standards and the requirement of the all the vehicles to adopt uniform communication standards. These systems cannot ensure the user safety until most vehicles adopt similar transmission equipment, for the efficiency of the information exchange.

**Global Automotive Head Gasket Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/12

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/339604](http://www.giiresearch.com/ce/339604)

The automotive head gasket is used as a sealant in between the engine block and engine head. It helps to maintain effective combustion in the engine and prevents leakages. The global automotive head gasket market is directly proportional to the automobile production. Especially the ones using combustion engines. For instance, passenger vehicles are expected to have the maximum share as globally it covers about 76.03% of the market.

Technavio's analysts forecast the global automotive head gasket market to grow at a CAGR of 3% during the period 2017-2021.

**Covered in this report**

The report covers the present scenario and the growth prospects of the global automotive head gasket market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.



## **Global Automotive Powertrain Testing Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/11

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/565864](http://www.giiresearch.com/ce/565864)

*An automotive powertrain includes all the major components that generate power and transmits it to the road or the surface. The components included in the powertrain are the engine, transmission, drive shafts, differentials, and the driving wheels. In hybrid vehicles, the battery, electric motor, and the control algorithm also constitute a part of the powertrain. Continuous pressure to innovate and increasingly short development cycles are some of the big challenges in the development of modern automotive powertrains.*

*Technavio's analysts forecast the global automotive powertrain testing market to grow at a CAGR of 3.60% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global automotive powertrain testing market for 2017-2021. To calculate the market size, the report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.*

## **Global Automotive Engine Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/10

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/565848](http://www.giiresearch.com/ce/565848)

*An engine is a device that helps convert the chemical energy of fuel into mechanical energy to produce power. The internal combustion (IC) engine used in the automobiles is fueled by petrol, diesel, propane or natural gas. The growth of the automotive engines is hindered with the rising demand for electric and hybrid vehicles. Among the types of the engine, in-line engines, which accounted for around 73% of the share in 2016 are the widely used engines in automobiles.*

*Technavio's analysts forecast the global automotive engine market to grow at a CAGR of 3.00% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global automotive engine market for 2017-2021. To calculate the market size, the report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.*

**Global Mining Tire Market By Vehicle Type (Dump Truck, Wheel Loader, Backhoe Loader, Motor Grader, Bulldozer, and Others), By Demand Category (OEM Vs. Replacement), By Region, Competition Forecast & Opportunities, 2012 - 2022**

Published by TechSci Research

Pub. Date 2017/10/09

Price

USD 4000 Unprintable PDF by E-mail (Single User License) ~

USD 8000 Printable & Editable PDF by E-mail (Multi-User License)

[www.giiresearch.com/ce/564404](http://www.giiresearch.com/ce/564404)

Increasing government plans and programs aimed at boosting mining projects, surging demand for retreaded mining tires and expanding distributor and dealership network by tire manufacturers, coupled with adoption of radial tires due to several features such as their improved fuel efficiency, reduced wear and tear, etc., are some of the factors driving demand for mining tires globally.

According to "Global Mining Tire Market By Vehicle Type, By Demand Category, By Region, Competition Forecast & Opportunities, 2012 - 2022", mining tire market is witnessing robust growth because rising number of mining vehicles, globally. Michelin, Bridgestone Corporation, The Goodyear Tire & Rubber Company, The Yokohama Rubber Co., Ltd., Continental, Balakrishnan Industries Limited, Sumitomo Rubber Industries, Ltd., Toyo Tire & Rubber Company, Apollo Tyres Ltd., Triangle Tyre Co. Ltd., Titan Tire Corporation, etc. are some of the leading players in the market.

**Global Automotive Braking System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/06

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/565820](http://www.giiresearch.com/ce/565820)

An automotive braking system is a group of hydraulic, electronic, and mechanical components actively used to stop a moving vehicle. The braking system in a vehicle converts the kinetic energy of the wheels into thermal energy produced by the brake thus stopping the vehicle. The speed of a vehicle is inversely proportional to the friction applied on the vehicle, which in turn is directly proportional to the braking of the vehicle.

Technavio's analysts forecast the global automotive braking system market to grow at a CAGR of 2.88% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global automotive braking system market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Advanced engine technologies for meeting CO2 and fuel economy targets - forecasts to 2032**

Published by just-auto

Pub. Date 2017/10/06

Price

USD 2300 PDF by E-mail (Single user license) ~

USD 6900 PDF by E-mail (Multi user license)

[www.giiresearch.com/ce/301305](http://www.giiresearch.com/ce/301305)

Updated in the last quarter, this report has been extracted from QUBE and provides a comprehensive overview of the emerging light vehicle engine technologies required to meet CO2 and fuel economy mandates, major suppliers, top markets, technology trends and market size forecasts.

Based on exclusive interviews, primary research and proprietary data this engine technologies global market study includes:

- Diesel and gasoline, fuel injection system and forced induction fitment and size data for the top 14\* markets
- A review of the latest technological developments and market trends in engine technology (combustion strategies such as: Atkinson cycle; HCCI/CAI; lean burn; variable compression ratio and stratified charge). Also: fuel injection system developments; effects of downsizing and downspeeding; kinetic and thermal energy recovery; forced induction; engine material developments; variable valve actuation; alternatives to the internal combustion engine and alternative fuels such as hydrogen and CNG.
- Regional engine supplier market share data tables and commentary
- Exclusive interviews with OE engine technology suppliers including Tenneco, Zircotec, Federal Mogul, Delphi, NemaK and Kolbenschmidt (news and interviews only available in QUBE)
- A sector PESTER analysis
- Updated profiles of the major engine technology suppliers including their strategies and prospects

## **Automotive Vision Systems - technology, trends and forecasts to 2032**

Published by just-auto

Pub. Date 2017/10/06

Price

USD 2300 PDF by E-mail (Single user license) ~

USD 6900 PDF by E-mail (Multi user license)

[www.giiresearch.com/ce/386366](http://www.giiresearch.com/ce/386366)

New from just-auto this quarter, this report has been extracted from QUBE and provides a comprehensive overview of automotive vision systems - glazing, mirrors and wipers - and assesses major suppliers, top markets, technology trends and market size forecasts.

- For the top 14\* markets it provides market size data and a 15-year forecast for:
- A review of the latest technological developments and market trends for:
- Regional supplier market share data tables and commentary
- Exclusive interviews with OE suppliers including Corning, Covestro, Ficosa, Flabeg, Gentex, Harman, NordGlass, Pilkington, SABIC, Saint-Gobain Sekurit and SL Corporation (news and interviews only available in QUBE)
- PESTER (Political, Economic, Social, Technological, Environmental and Regulatory) analysis
- Updated profiles of the major suppliers including their strategies and prospects

## **Automotive Braking Systems - technology, trends and forecasts to 2032**

Published by just-auto

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USD 2300 PDF by E-mail (Single user license) ~

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[www.giiresearch.com/ce/386363](http://www.giiresearch.com/ce/386363)

New from just-auto this quarter, this report has been extracted from motor industry information and intelligence platform QUBE and provides a comprehensive overview of the global automotive original equipment (OE) foundation and electronic braking sector and assesses major suppliers, top markets, technology trends and market size forecasts.

Based on exclusive interviews, primary research and proprietary data this global market study includes:

- For the top 14\* markets it provides market size data and a 15-year forecast for:
- A review of the latest technological developments and market trends for:
- Regional supplier market share data tables and commentary
- Exclusive interviews with OE suppliers including Brembo, BWI Group, Continental, IFR Automotive, Thatcham, TMD Friction, TNO, ZF-TRW news and interviews only available in QUBE)
- Sector PESTER (Political, Economic, Social, Technological, Environmental and Regulatory) analysis
- Updated profiles of the major automotive brake system suppliers including their strategies and prospects

## **Automotive Over the Air (OTA) Updates Market Report 2017-2027: Forecasts by Type (Software Over the Air (SOTA), Firmware Over the Air (FOTA)), by Component, by Vehicle Type (Passenger Cars, Heavy Vehicles, Defence Vehicles, Off-Road Vehicles)**

Published by Visiongain Ltd

Pub. Date 2017/10/06

Price

GBP 2499 Unprintable PDF (Single User) - 1 Year License ~

GBP 6999 PDF (Global Site License - Includes Free Datasets)

[www.giiresearch.com/ce/572657](http://www.giiresearch.com/ce/572657)

Developments in connected cars, increasingly sophisticated vehicle electronics and embedded systems all require constant software and firmware updates. Because it is unrealistic to regularly return vehicles to service centres, this has led to a significant development in Automotive Over the Air (OTA) Updates which Visiongain assesses as reaching a value of \$1.32bn in 2017.

Visiongain's report on this sector gives a detailed overview of the market, creating an accurate picture that will offer clarity to anyone involved in the automotive software and firmware industry. Importantly, the report also delivers numerous forecasts of the market, giving you an insight into the future opportunities that exist in the Automotive Over the Air (OTA) Updates market.

## **Global Mobile Homes Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/06

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/565822](http://www.giiresearch.com/ce/565822)

A mobile home is a residential structure having a permanently attached chassis, which is completely built and assembled in a factory. This structure is then transported to a physical site on its own wheels or towed on trucks, where it is attached permanently or semi-permanently to the land, and connected with pre-existing utilities. Mobile homes usually come installed with all plumbing fittings, heating, ventilation and air-conditioning (HVAC) systems, and necessary electrical appliances.

Technavio's analysts forecast the global mobile homes market to grow at a CAGR of 7.86% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global mobile homes market for 2017-2021. To calculate the market size, the report considers the demand from end-users and annual sales data.

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## **Global Commercial Vehicle Instrument Cluster Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/06

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/565819](http://www.giiresearch.com/ce/565819)

A vehicle used for transporting goods or paid passengers is called a commercial vehicle. Commercial vehicles are typically used for transportation of cargo and passengers over long distances. Most of the conventional commercial vehicles are propelled by internal combustion engines (ICE). However, over the past decade, increasing emphasis on environment and the need for fuel-efficient energy sources have pushed the OEMs to explore fuel-efficient propulsion technologies, such as hybrid engines. Instrument cluster provides the driver with the primary data of vehicle status such as speed, fuel level, and water temperature. It contains various displays and indicators, such as speedometer, odometer, tachometer, oil pressure gauge, and fuel gauge, that enable the driver to operate the vehicle. It also contains indicators for warnings and system malfunctions.

Technavio's analysts forecast the global commercial vehicle instrument cluster market to grow at a CAGR of 2.65% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global commercial vehicle instrument cluster market for 2017-2021. To calculate the market size, the report considers the revenue generated from the sales of commercial vehicle instrument cluster.

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**Golf Cart and Neighborhood Electric Vehicle (NEV) Market (Engine - Gas Powered Engine and Electric Powered Engine, Type - Neighborhood Electric Vehicle (NEV) and Golf Cart) - Global Industry Analysis, Size, Share, Growth, Trends, Forecast 2017 - 2025**

Published by Transparency Market Research

Pub. Date 2017/10/05

Price

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USD 11795 PDF by E-mail (Corporate License)

[www.giiresearch.com/ce/572235](http://www.giiresearch.com/ce/572235)

The report on the global Golf Cart and Neighborhood Electric Vehicle (NEV) market provides analysis for the period 2015-2025, wherein 2016 is the base year and the period from 2017 to 2025 is the forecast period. Data for 2015 has been included as historical information. The report covers market dynamics including drivers, restraints opportunities, and trends expected to influence the global Golf Cart and Neighborhood Electric Vehicle (NEV) market growth during the said period. Technologies that are playing a major role in driving the global Golf Cart and Neighborhood Electric Vehicle (NEV) market have also been covered in the study. The study provides a comprehensive analysis on market growth throughout the above mentioned forecast period in terms of revenue estimates (In US\$ Mn) and volume estimates (In Thousand Units) across different geographies.

**Global In-car Wireless Charging System Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/05

Price

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USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/565812](http://www.giiresearch.com/ce/565812)

In-car wireless charging system (WCS) comprise wireless chargers used to charge electronic gadgets, such as smartphones, tablets, and MP3/WAV players in the car. The device charges the gadgets through inductive charging or magnetic resonance technology. The market is segmented in three regions APAC, Americas and EMEA. The two segments of WCS in terms of end-user are OEM-fitted and Aftermarket. The market encompasses in-car WCS docks, adapter, and case/cover that used for wireless charging of electronic gadgets in cars.

Technavio's analysts forecast the global in-car wireless charging system market to grow at a CAGR of 43.75% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global in-car wireless charging system market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

## **Global Automotive Turbocharger Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/05

Price

USD 3500 PDF by E-mail (Single User License) ~

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[www.giiresearch.com/ce/265363](http://www.giiresearch.com/ce/265363)

An automotive turbocharger, which has two main components, namely, the turbine and compressor, works on a simple principle. The exhaust that is released after the combustion of air and fuel in a vehicle's combustion chamber is used by the turbocharger. This exhaust air strikes the turbine blades, which rotates the turbine. A compressor is connected to the turbine using a shaft, which sucks in the air and compresses it using the centrifugal principle. This compressed air is then passed through a charge air cooler, which cools the air. This air finally reaches the intake manifold of the engine. The compressed air allows the engine to burn the fuel completely at a high volume, thus producing more power and improving the fuel efficiency. Automotive turbochargers increase the volume of the air that enters the cylinder and the fuel intake proportionately, thereby increasing power and fuel efficiency without compromising the environment or efficiency. For example, a turbocharger installed in a four-cylinder engine can produce the same power as a six-cylinder engine. Turbos are popularly used in cars, trucks, locomotives, and construction equipment engines.

## **Electric Vehicles (On Road) Market (By Type: Electric Cars, Electric Buses, Electric Bikes and Scooters, And Others; By Geography: North America, Europe, Asia-Pacific, RoW) Global Scenario Market Size, Outlook, Trend and Forecast, 2015 - 2024**

Published by Variant Market Research LLP

Pub. Date 2017/10/04

Price

USD 3195 Data Pack ~

USD 7695 PDF by E-mail (Global License)

[www.giiresearch.com/ce/573613](http://www.giiresearch.com/ce/573613)

Global Electric Vehicles (On Road) Market is estimated to reach \$168.3 Billion by 2024; growing at a CAGR of 8.4% from 2016 to 2024. Electric vehicles utilize one or more electric motors for propulsion, that are powered by rechargeable batteries. These batteries can be recharged using dedicated charging unit or grid electricity. These vehicles are more energy efficient than conventional gasoline or diesel engines. Moreover, they are capable of significantly reducing environmental pollution and are capable of recovering braking energy as electricity that can be restored to the battery or sent back to grid. Materials handling and industrial vehicles have been not covered in the report.

Declining price of batteries, increasing production and sales of automobiles, rising government support by providing incentives on purchase of electric cars, and growing fuel prices are the key factors supporting the growth of the global electric vehicles market. Though, non-availability of adequate charging points, and high cost of these vehicles could hinder the market growth. Additionally, government initiatives pushing the sales of electric vehicles, and supporting infrastructure would create growth opportunities in years to come.



## **Global Automotive Rubber Hoses Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/04

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global license)

[www.giiresearch.com/ce/350028](http://www.giiresearch.com/ce/350028)

*An average automotive uses different variety of hoses and pipes within the engine. Each hose and pipe is a crucial component that ensures proper functioning of the engine component. A defective hose can cause issues like engine overheating, coolant loss, fuel supply disruption, and lead to increase in vehicle downtime. Automotive pipes function like automotive hoses. However, they are used for transferring volatile and high temperature liquids and gases, from the engine after combustion to the exhaust system.*

*Technavio's analysts forecast the global automotive rubber hoses market to grow at a CAGR of 5.08% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the global automotive rubber hoses market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.*

## **Spare Parts Logistics Market in APAC 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

Pub. Date 2017/10/03

Price

USD 3500 PDF by E-mail (Single User License) ~

USD 6000 PDF by E-mail (Global License)

[www.giiresearch.com/ce/563465](http://www.giiresearch.com/ce/563465)

*The spare parts logistics of the manufacturer contains the market-orientated realization, planning, control, and design of the spare parts supply and distribution, with associated information flows between the firm's network partners and within a firm. Spare parts logistics aims at a preventive maintenance of primary products, demand-driven and cost-minimal provision of the required spare parts for the defective, and the need to ensure an optimal level of reliability and availability of the product.*

*Technavio's analysts forecast the spare parts logistics market in APAC to grow at a CAGR of 6.47% during the period 2017-2021.*

*Covered in this report*

*The report covers the present scenario and the growth prospects of the spare parts logistics market in APAC for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.*

## **Vietnam Cold Storage Market 2017**

Published by StoxPlus - Biinform

Pub. Date 2017/10/03

Price

USD 2500 PDF by E-mail (Single User License)

[www.giiresearch.com/ce/358363](http://www.giiresearch.com/ce/358363)

StoxPlus is pleased to introduce Vietnam Cold Storage Market 2017 Report, the second issued on this industry. This report presents a board range of topics, both sector-specific and cross-cutting market issues.

We have completed a review of the Vietnam cold storage market landscape, including an overview of the existing commercial cold storage providers and their pricing, a demand analysis of key end-user groups, investment activities, and legal framework. We also pointed out some of the key issues with regards to the cold storage demand for investment opportunity.

Below are the most critical findings in our first issue:

1) The total designed capacity of Vietnam commercial cold storages was estimated at 450,000 pallets in 2017 : There are 20 professionally-managed commercial cold storages in the South of Vietnam, 40-50 in the North, and many other small independent cold storages. ...

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## **Automotive Artificial Intelligence - Global Market Outlook (2017-2023)**

Published by Statistics Market Research Consulting

Pub. Date 2017/10/01

Price

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USD 7500 PDF by E-mail (Global Site License)

[www.giiresearch.com/ce/573059](http://www.giiresearch.com/ce/573059)

According to Statistics MRC, the Global Automotive Artificial Intelligence Market accounted for \$563.58 million in 2016 and is expected to reach \$5,265.81 million by 2023 growing at a CAGR of 37.6% during the forecast period. The automotive industry has seen the promise of artificial intelligence (AI) technology, and is among the industries at the forefront of using AI to augment human actions and to mimic the actions of humans. The arrival of standards such as the adaptive cruise control (ACC), blind spot alert, and advanced driver assistance systems (ADAS) and rising demand for convenience and safety presents an opportunity for OEMs to build up novel and innovative artificial intelligence systems that would attract customers.

Although 2016 was spoiled by some technological failures in self-driving cars, the year also observed a couple of successful test runs in the US. Uber had ordered Swedish car maker Volvo for a fleet of self-driving cars. While also harnessing the advanced reaction times and pinpoint precision of machine-based systems, both semi-autonomous and the fully autonomous vehicles of the future will depend heavily on AI systems.

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## **EV Batteries and Materials: Technology, Trends, and Market Forecasts**

Published by Information Network

Pub. Date 2017/10/01

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*With more automakers aiming to market cheaper, longer-range plug-in cars, demand for lithium-ion automotive batteries is expected rise sharply in 2017.*

*The key to the market growth is the use of battery packs that are in some cases two to three times bigger than those employed in electric cars just five years ago. By incorporating bigger batteries, the new vehicles will offer greater all-electric ranges.*

*Unfortunately, high costs of lithium-ion battery cells have been one of the main hindrances to large-scale electric-car adoption, as they typically lead to higher purchase prices for electric cars than comparable internal-combustion models.*

*Because of improved chemistry, manufacturing processes and economies of scale, average electric-car battery costs continue to decline.*

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## **Automotive Energy Harvesting and Regeneration - Global Market Outlook (2017-2023)**

Published by Statistics Market Research Consulting

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*According to Statistics MRC, the Global Automotive Energy Harvesting and Regeneration market is expected to grow from \$25.98 billion in 2016 to reach \$105.26 billion by 2023 with a CAGR of 22.12%. Some of the factors favouring the market growth are increasing demand for green manufacturing in the automotive industry, strict government regulations and rising need for alternative fuel vehicles. However, huge cost of vehicles and current battery technology of electric vehicles are hindering the market growth. Reducing greenhouse emission and improvements in automotive technologies are some of the major opportunities during the forecast period.*

*Energy harvesting is the process of extracting and storing energies from external sources such as wind energy, thermal energy, solar power, and kinetic energy for future use. This energy is stored in batteries and capacitors for autonomous operations. Hybrid electric vehicles have acquired the highest market share and the growth of these vehicles is attributed to greater fuel efficiency.*

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**Diesel Exhaust Fluid - Global Market Outlook (2017-2023)**

Published by Statistics Market Research Consulting

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According to Statistics MRC, the Global Diesel Exhaust Fluid market is expected to grow from \$9.95 billion in 2016 to reach \$22.80 billion by 2023 with a CAGR of 12.5%. Some of the factors driving the market include, growing adoption of DEF filling pumps and strict emission regulations are increasing the demand for diesel SCR Vehicles. In addition, varying prices of urea and diesel, growing demand for electric vehicles are restricting the market growth.

Light Commercial vehicles segment is expected to witness huge growth rate due to the fact that LCVs have large diesel tank capacity compared to that of passenger cars and thus the demand is growing for these vehicles. Diesel car gives higher efficiency which is increasing the demand in automotive sector. Also innovations such as catalytic converters and diesel exhaust fluid have thus become important for the automotive industry during the forecast period.

**Automotive Motors - Global Market Outlook (2017-2023)**

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According to Statistics MRC, the Global Automotive Motors market is expected to grow from \$27.15 billion in 2016 to reach \$45.76 billion by 2023 with a CAGR of 7.7%. Rising vehicle production across many developing countries, increasing need for electric vehicles, growing demand for advanced automation systems are some of the factors driving the market. In addition, varying costs of raw materials is hindering the market growth.

The demand for DC brushed motors is increasing rapidly and the growth of these motors is attributed to its low cost and easy usage. Hybrid Electric Vehicle (HEV) is one of the fastest growing segments due to the improvements in technologies consisting of automatic start/shut-off, regenerative brakes. Plug-in Hybrid Electric Vehicle (PHEV) has acquired the largest market share.

Asia Pacific is leading the automotive market and the factors contributing to the growth of this region are rising vehicle production, increasing volume of passenger cars among people in developing countries such as China and India. Advanced technologies with start-stop systems and anti-lock braking system (ABS) are fuelling the growth of automotive motors.

**Automotive Embedded System - Global Market Outlook (2017-2023)**

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According to Statistics MRC, the Global Automotive Embedded System market is expected to grow from \$23.71 billion in 2016 to reach \$40.43 billion by 2023 with a CAGR of 7.9%. Some of the factors driving the growth of the automotive embedded systems are consumers increasing demand towards electric vehicles, growing need for advanced safety, luxuries and comfortable systems. However, limited lifespan of these electronics systems and huge power required for the utilization of these vehicles are hindering the market.

Sensors have acquired the largest market share due to the increasing adoption of these sensors in the electric vehicles and thus the demand is growing for sensors in automotive embedded systems. Based on the application, safety and security segment is leading the market with the highest CAGR and the growth is attributed towards the growing number of safety measures which include anti-lock brake systems (ABS) and airbags in the vehicles.

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